

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198876

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198876
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24262)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-SL3-7050-800
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4881 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

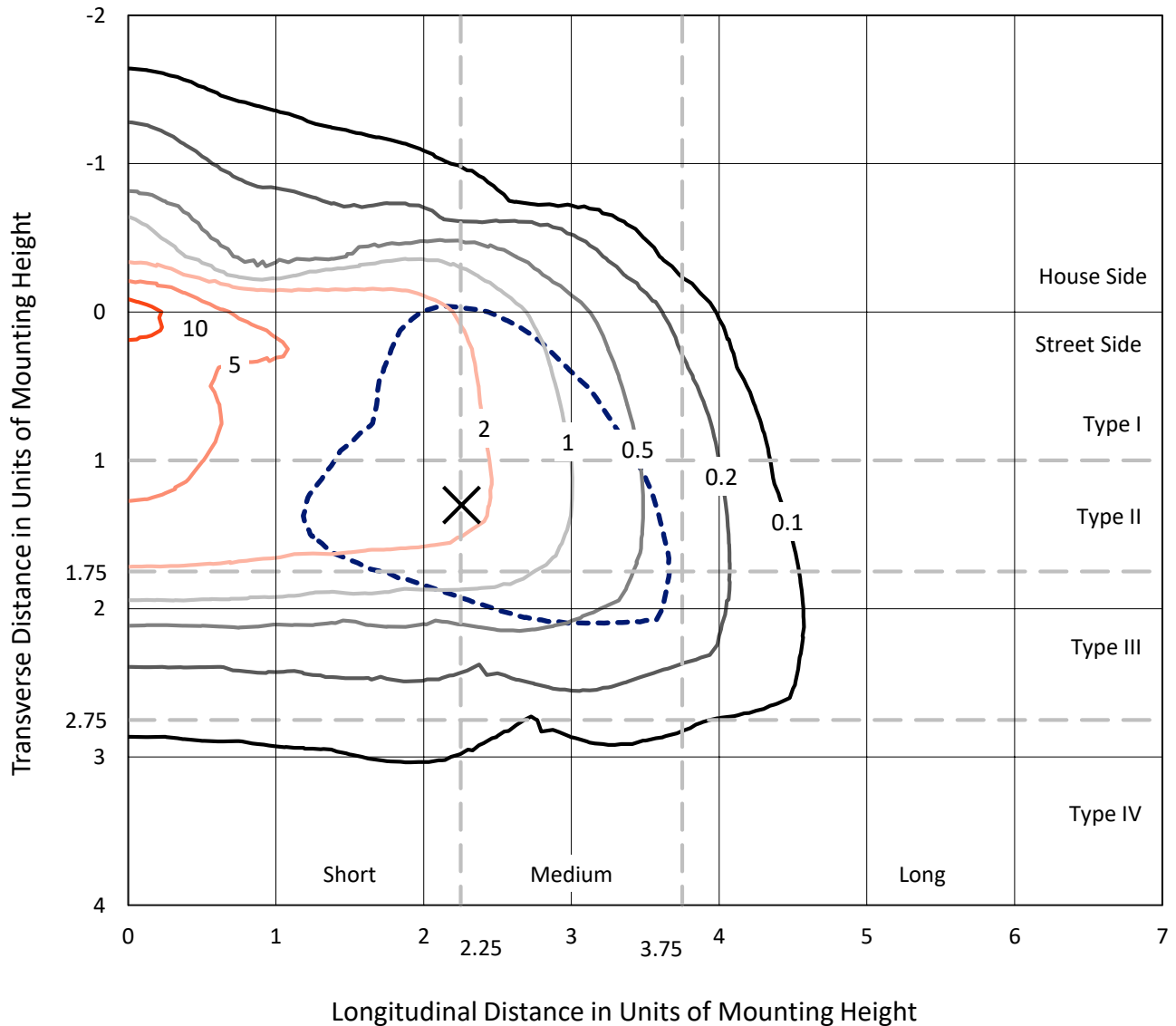
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

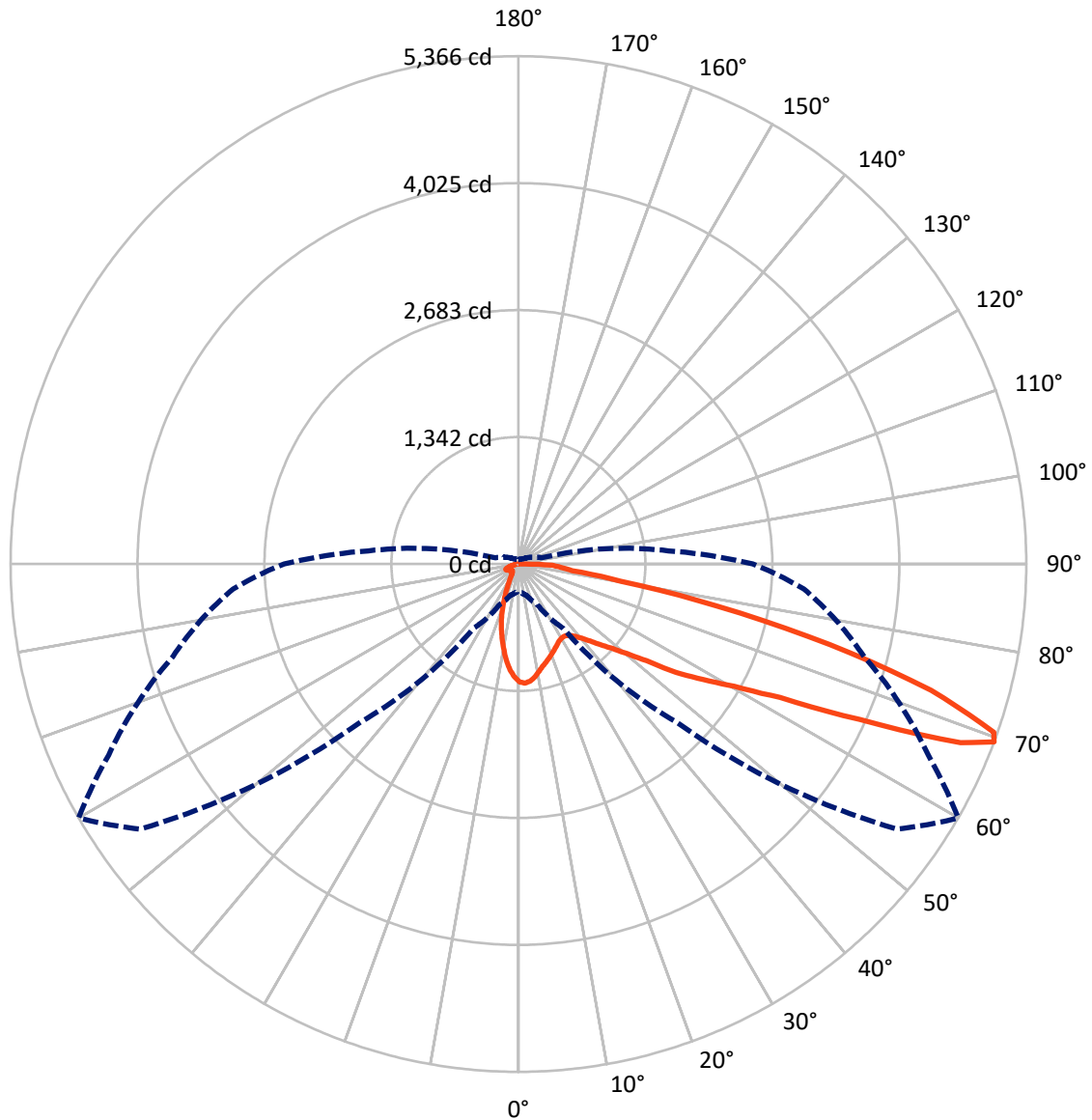
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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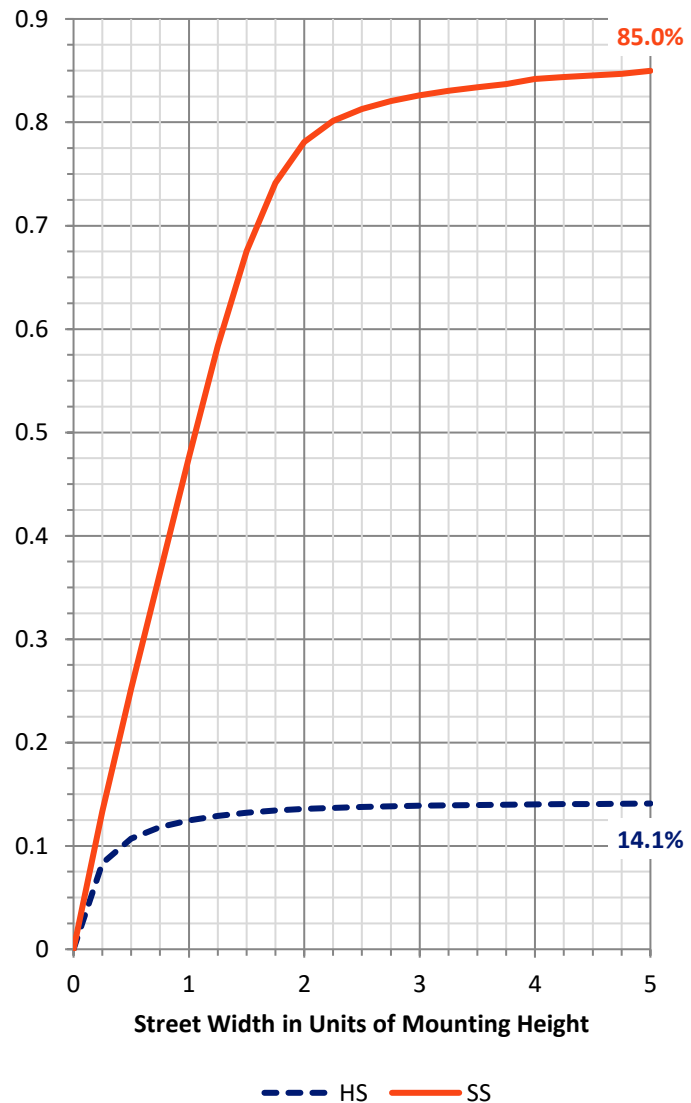
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	696.2	0.0	696.2
	% Fixture	14.3	0.0	14.3
Street Side	Lumens	4184.8	0.0	4184.8
	% Fixture	85.7	0.0	85.7
Total	Lumens	4881.0	0.0	4881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	2.2
10°-20°	226.2	4.6
20°-30°	288.6	5.9
30°-40°	397.1	8.1
40°-50°	643.2	13.2
50°-60°	1009.5	20.7
60°-70°	1345.9	27.6
70°-80°	748.6	15.3
80°-90°	116.1	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	4881.0	100.0
0°-180°	4881.0	100.0

Coefficient of Utilization



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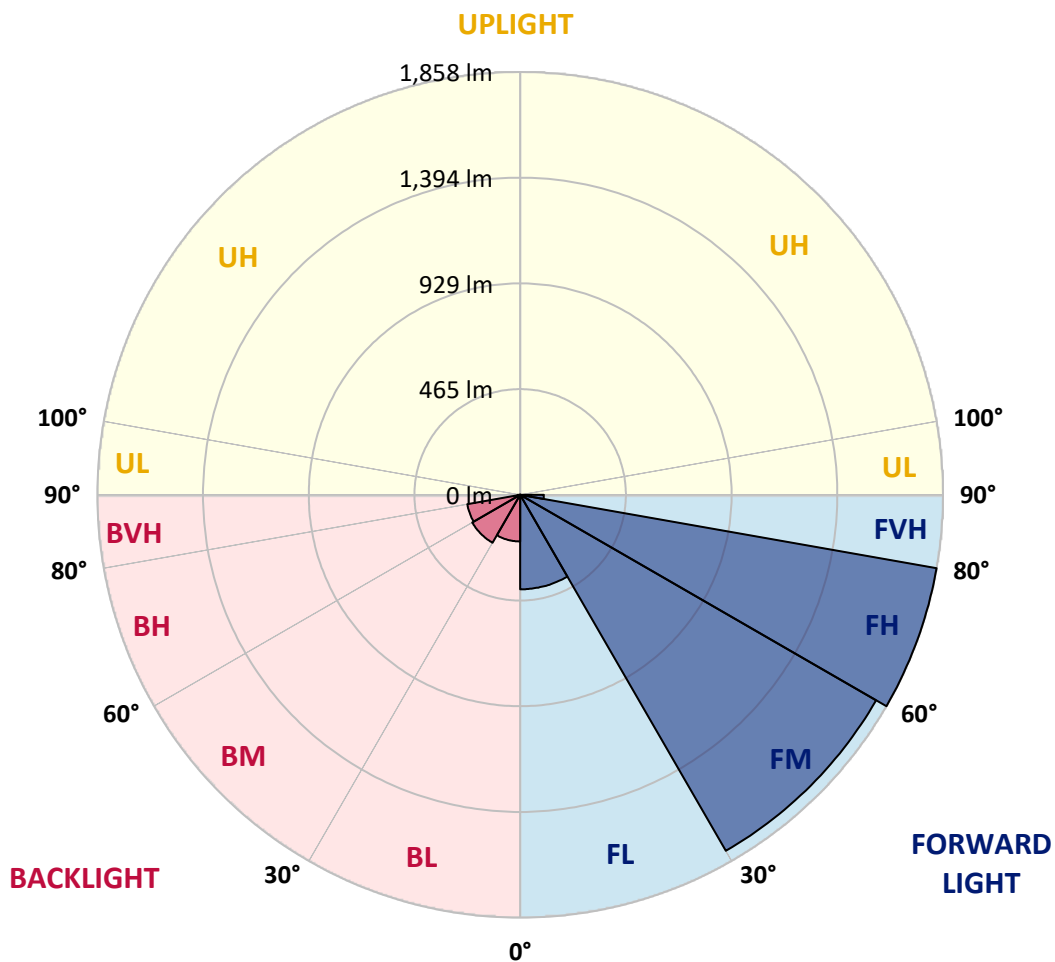
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.3	8.5			
FM (30°-60°)	1806.7	37.0			
FH (60°-80°)	1858.5	38.1			G2/5000
FVH (80°-90°)	104.3	2.1			G2/225
BL (0°-30°)	205.2	4.2	B1/500		
BM (30°-60°)	243.2	5.0	B1/1000		
BH (60°-80°)	236.0	4.8	B1/500		G1/500
BVH (80°-90°)	11.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4
2.5°	1278.6	1282.0	1282.0	1279.2	1277.6	1268.6	1263.2	1259.5	1252.9	1240.7	1229.8
5°	1232.9	1239.5	1242.3	1243.5	1251.7	1248.8	1249.2	1246.7	1241.0	1227.9	1210.0
7.5°	1149.0	1150.3	1155.3	1163.7	1183.4	1197.2	1208.5	1210.7	1209.4	1199.7	1174.7
10°	1066.4	1068.6	1074.5	1088.9	1107.7	1127.4	1151.8	1161.8	1169.3	1166.2	1134.6
12.5°	997.8	998.1	1004.7	1021.3	1042.3	1067.0	1100.2	1115.8	1133.7	1140.9	1105.5
15°	931.8	936.2	942.4	962.5	988.4	1019.7	1057.9	1079.5	1103.0	1123.6	1083.0
17.5°	881.7	885.1	888.9	905.5	935.5	974.7	1021.9	1045.1	1076.1	1107.7	1059.8
20°	854.2	855.4	852.6	860.7	886.1	928.3	983.1	1011.0	1047.9	1092.3	1036.0
22.5°	848.5	848.5	838.2	836.6	847.9	883.6	943.1	977.2	1022.2	1081.7	1014.7
25°	874.8	872.9	853.5	835.7	831.6	849.8	904.9	946.8	1000.3	1081.4	998.8
27.5°	924.6	922.1	898.0	867.9	842.0	834.1	875.4	918.3	983.1	1092.0	990.6
30°	986.6	985.6	961.2	923.6	880.8	840.4	863.9	903.6	971.5	1111.8	990.3
32.5°	1054.5	1050.1	1035.1	997.5	941.8	875.1	870.7	904.2	968.4	1140.5	997.5
35°	1126.8	1123.6	1119.9	1082.0	1019.4	936.5	901.1	925.8	983.7	1180.6	1017.9
37.5°	1218.8	1215.4	1221.6	1180.3	1111.8	1016.9	952.4	969.0	1015.0	1238.8	1055.7
40°	1382.5	1372.5	1355.0	1291.4	1219.4	1115.5	1026.6	1029.1	1068.6	1316.8	1116.4
42.5°	1651.4	1619.1	1532.4	1415.7	1333.0	1230.1	1123.3	1111.4	1142.4	1419.7	1204.7
45°	1920.8	1884.5	1738.1	1551.2	1450.7	1353.1	1242.9	1214.4	1234.4	1539.6	1318.3
47.5°	2094.9	2077.0	1911.8	1686.7	1574.0	1487.0	1379.7	1332.7	1347.1	1675.5	1458.6
50°	2145.9	2130.5	2000.7	1792.8	1690.5	1648.9	1549.0	1486.7	1489.2	1834.1	1626.6
52.5°	2107.7	2101.4	2015.4	1858.6	1797.5	1819.4	1783.4	1696.7	1676.1	2008.2	1808.8
55°	2056.7	2058.9	2025.7	1924.6	1906.4	1978.4	2090.2	2020.4	1932.7	2189.4	1998.5
57.5°	1896.1	1897.7	1984.7	2050.4	2114.3	2201.3	2329.0	2299.6	2197.5	2385.0	2211.0
60°	1526.8	1539.0	1732.7	2024.4	2351.8	2640.4	2671.7	2621.0	2479.2	2610.4	2487.4
62.5°	1090.8	1101.7	1326.2	1757.5	2324.0	3137.5	3304.6	3103.0	2861.4	2947.5	2876.1
65°	573.1	571.2	744.9	1214.4	1957.5	3252.6	4301.8	3958.7	3505.2	3411.0	3251.7
67.5°	320.2	330.5	397.8	612.5	1275.8	2862.6	4938.7	5039.8	4400.4	3778.8	3235.4
69°	296.1	299.5	344.6	473.6	831.6	2361.9	4884.0	5366.3	4777.9	3780.3	3027.0
70°	287.6	291.4	332.4	436.3	698.6	1935.2	4684.6	5328.1	4869.6	3696.5	2837.3
72.5°	257.9	262.9	302.7	392.2	588.7	997.5	3773.5	4560.3	4411.0	3230.7	2200.0
75°	220.0	228.5	288.6	389.4	557.8	634.1	2516.5	3397.5	3283.0	2310.5	1248.2
77.5°	91.1	92.0	126.1	285.1	585.3	606.9	1352.4	2152.1	1905.2	1013.2	375.9
80°	63.5	62.3	62.9	83.3	472.3	611.0	693.9	1094.5	850.7	267.3	175.9
82.5°	53.5	52.9	55.4	52.3	159.9	693.3	580.3	570.6	400.6	144.0	83.9
85°	35.4	34.4	45.4	47.6	76.1	550.6	624.1	448.5	298.6	77.0	35.7
87.5°	17.2	17.5	26.0	32.2	40.4	174.3	597.8	354.6	230.7	33.5	14.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4	1245.4
2.5°	1225.4	1216.0	1207.5	1196.9	1188.8	1181.9	1172.5	1172.2	1170.6	1172.8	1173.4
5°	1198.1	1182.5	1158.7	1132.1	1113.3	1088.6	1064.5	1056.4	1047.3	1046.3	1049.2
7.5°	1157.1	1132.7	1092.0	1051.3	1010.7	969.0	929.6	909.6	890.2	884.2	887.0
10°	1111.4	1080.5	1018.2	951.8	894.5	832.6	772.5	733.7	698.3	683.3	687.0
12.5°	1075.8	1036.3	948.7	862.6	776.9	688.0	608.8	532.1	474.2	448.2	449.8
15°	1045.1	994.7	883.6	769.0	661.7	539.9	430.1	341.2	290.5	271.7	271.1
17.5°	1011.9	950.9	815.7	682.0	542.7	392.2	288.0	235.4	215.3	209.1	209.1
20°	976.5	905.8	744.6	587.2	417.5	273.9	216.6	196.2	188.7	186.9	186.5
22.5°	943.7	861.7	673.2	486.1	302.0	207.8	184.4	176.5	175.3	176.8	176.8
25°	917.7	822.9	600.9	379.7	219.7	174.0	164.0	163.1	167.8	173.4	174.3
27.5°	898.3	788.1	529.6	277.3	172.8	151.5	148.0	152.1	163.1	174.3	176.5
30°	884.8	758.4	444.1	199.4	144.0	132.7	134.3	141.5	158.1	175.3	180.0
32.5°	878.9	734.3	358.1	153.1	123.0	116.7	120.8	130.2	147.4	164.6	170.3
35°	884.5	716.8	278.6	127.1	107.7	103.0	107.7	117.4	128.6	137.1	140.5
37.5°	904.9	710.5	209.7	112.7	97.7	93.0	96.7	103.3	108.3	111.4	113.0
40°	947.7	717.1	164.3	105.2	92.0	86.7	87.6	90.8	94.2	96.7	97.0
42.5°	1016.0	738.7	146.2	102.3	88.6	81.7	80.1	82.3	86.1	89.5	90.1
45°	1106.7	774.7	144.3	103.3	87.0	77.6	74.5	76.7	81.7	87.3	88.3
47.5°	1224.1	831.6	153.1	108.3	88.0	75.4	70.7	72.9	79.5	87.0	88.3
50°	1363.1	910.5	169.3	115.8	92.3	75.4	69.2	71.0	77.9	86.4	87.6
52.5°	1526.8	1020.4	186.2	123.3	98.6	78.2	69.8	69.5	75.7	83.6	85.1
55°	1707.4	1156.8	202.5	129.9	102.0	82.0	71.4	67.6	72.6	78.9	80.1
57.5°	1919.9	1343.7	231.0	136.2	103.9	84.8	73.2	65.7	68.5	72.9	73.9
60°	2208.2	1618.2	286.4	146.8	107.4	86.1	73.6	63.9	63.5	66.7	67.0
62.5°	2584.1	1939.6	339.3	159.3	114.2	86.4	72.3	62.6	59.5	60.4	60.4
65°	2851.4	2057.9	323.9	170.0	120.5	86.1	71.0	61.7	56.3	54.8	54.8
67.5°	2699.3	1817.9	275.1	172.8	121.1	82.6	68.2	59.5	53.5	49.8	49.8
69°	2475.8	1593.5	252.6	167.8	116.1	78.6	65.1	57.3	51.6	47.3	47.3
70°	2293.6	1423.5	238.8	161.8	110.2	75.1	62.3	55.1	49.8	46.0	45.7
72.5°	1712.4	949.9	204.1	139.6	90.5	63.5	54.5	49.1	44.8	42.3	42.3
75°	903.6	476.1	167.1	113.9	69.8	50.7	44.8	41.3	38.8	38.5	38.2
77.5°	296.1	215.3	120.2	85.8	51.3	39.4	35.7	33.5	33.2	34.4	34.4
80°	159.9	128.6	77.3	57.9	35.7	29.4	27.5	27.2	28.2	30.0	30.0
82.5°	77.6	63.5	46.0	35.7	24.4	21.6	21.6	21.9	23.2	25.4	25.4
85°	33.5	30.0	26.6	20.0	15.0	13.5	15.3	16.9	17.8	19.4	20.0
87.5°	16.0	14.1	12.2	7.8	6.6	6.9	8.1	10.0	11.9	13.1	13.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)