

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: P271239

Luminaire Tested: **XNV-AF-01-LED-U-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
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-SL3-7027-1200-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4892.7 lumens
Efficiency: N/A
Efficacy: 74.1 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): 66
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

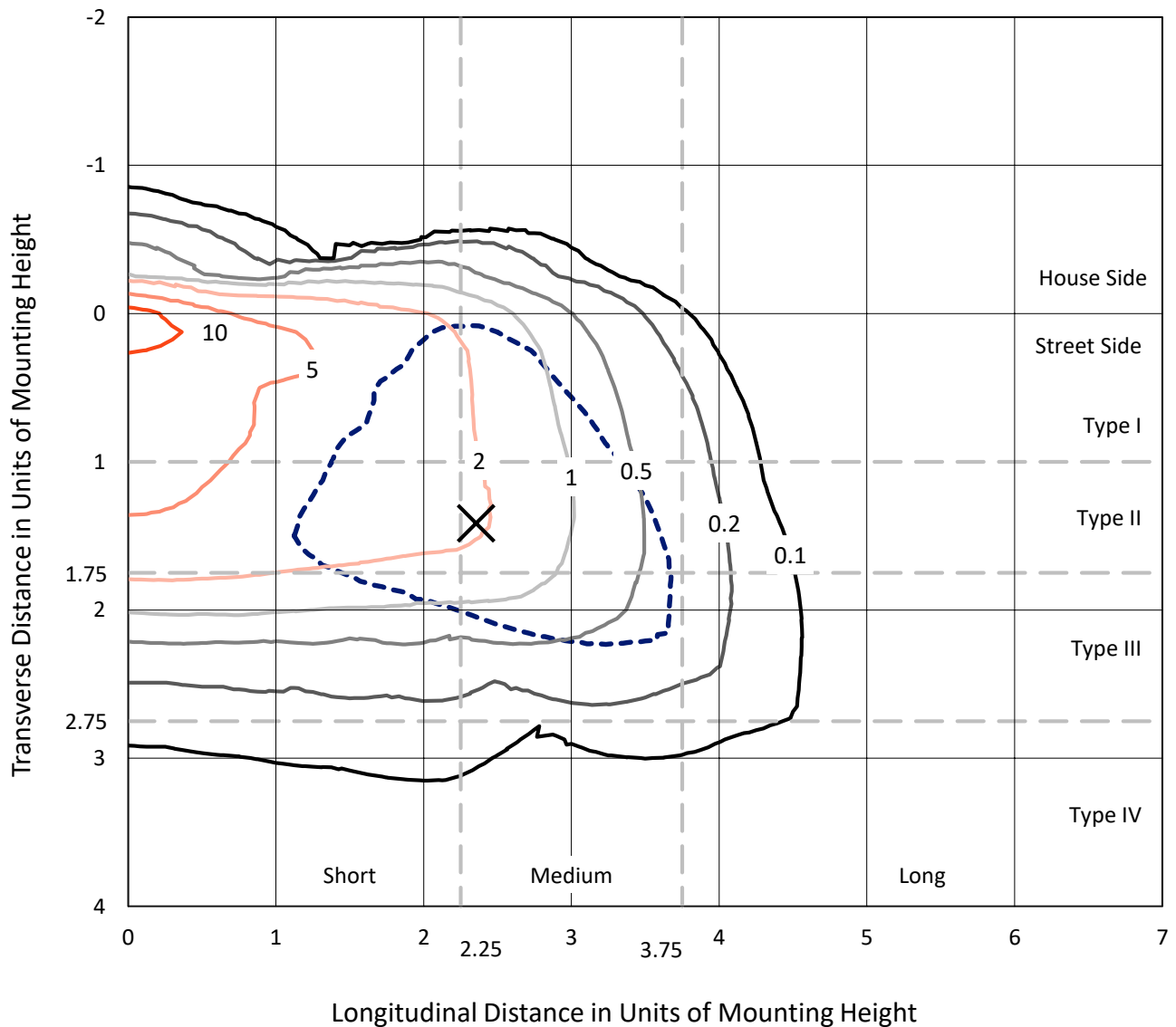


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

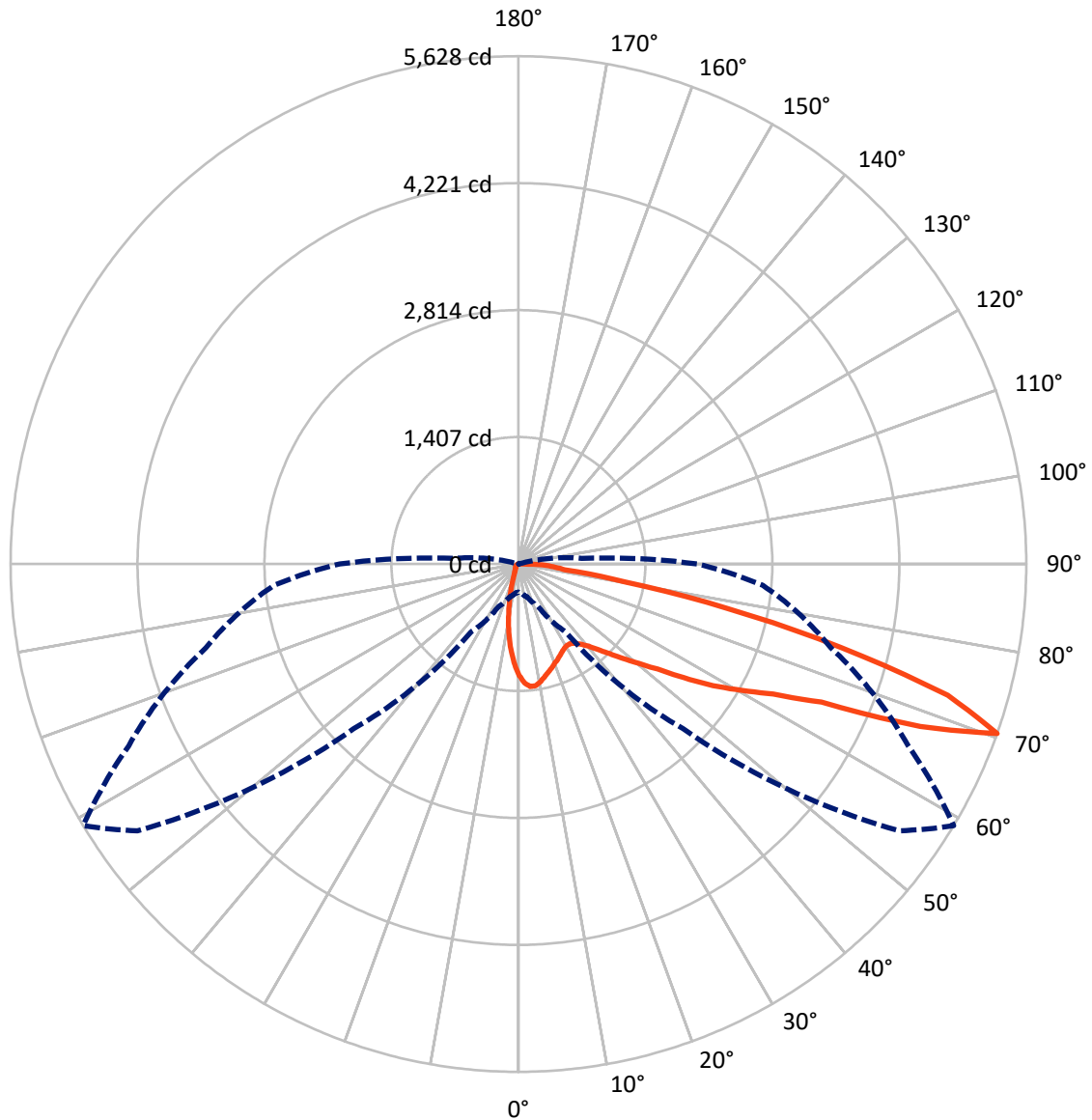


Based on 10 foot mounting height. Maximum calculated value = 13.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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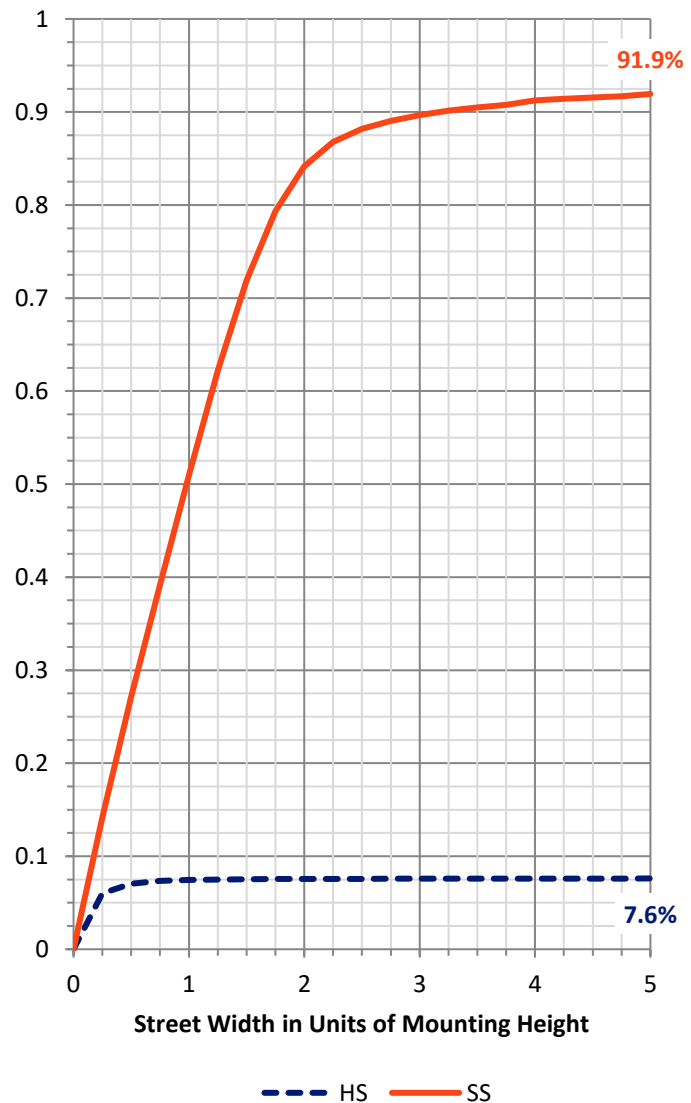
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	376.1	0.0	376.1
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	4516.6	0.0	4516.6
	% Fixture	92.3	0.0	92.3
Total	Lumens	4892.7	0.0	4892.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.7	2.1
10°-20°	213.4	4.4
20°-30°	288.8	5.9
30°-40°	416.8	8.5
40°-50°	692.3	14.1
50°-60°	1058.9	21.6
60°-70°	1317.1	26.9
70°-80°	728.1	14.9
80°-90°	75.5	1.5
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°	4892.7	100.0
0°-180°	4892.7	100.0



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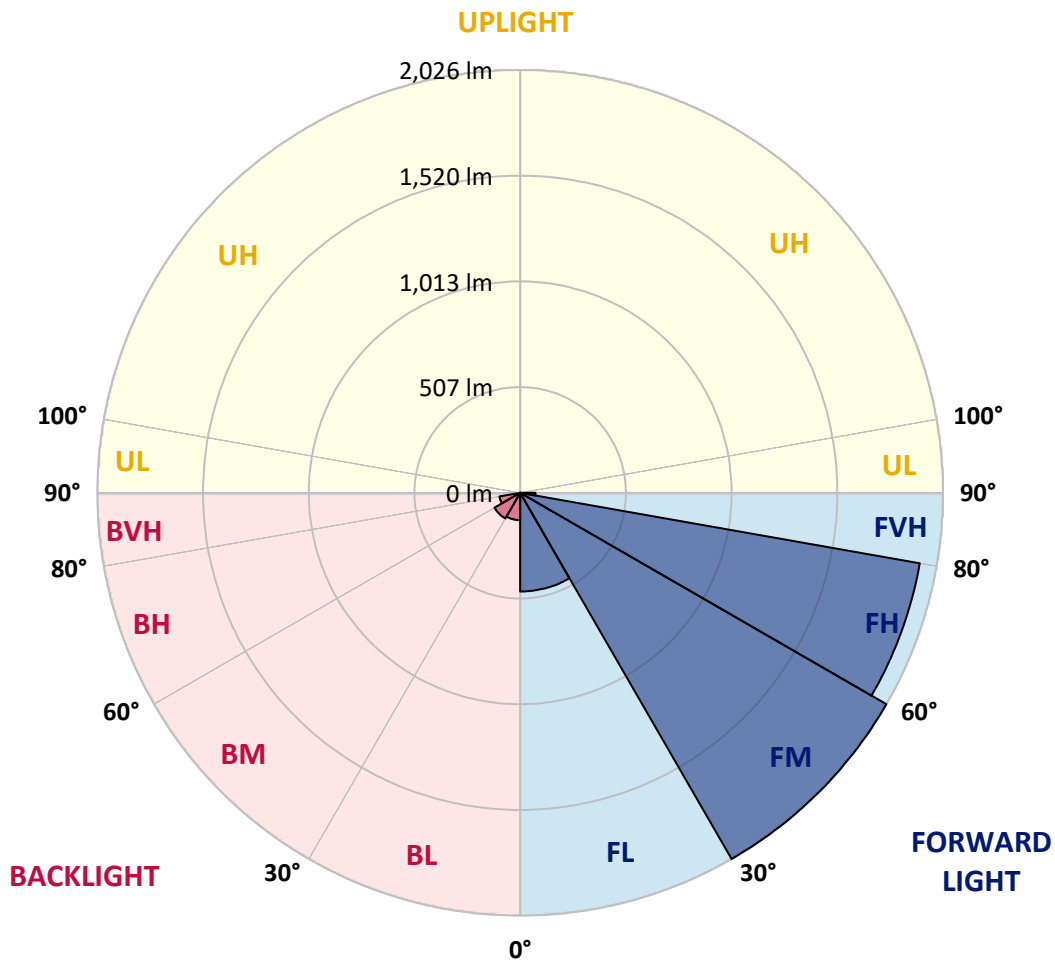
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.9	9.7			
FM (30°-60°)	2026.1	41.4			
FH (60°-80°)	1944.3	39.7			G2/5000
FVH (80°-90°)	73.3	1.5			G1/100
BL (0°-30°)	131.1	2.7	B1/500		
BM (30°-60°)	142.0	2.9	B0/220		
BH (60°-80°)	100.9	2.1	B0/110		G0/110
BVH (80°-90°)	2.2	0.0			G0/10
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°	59°	65°	75°	85°
0°	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1
2.5°	1398.5	1396.2	1387.1	1385.1	1374.9	1354.1	1330.2	1320.6	1301.0	1270.1	1235.7
5°	1421.7	1422.8	1423.5	1419.5	1418.1	1401.0	1374.4	1363.1	1336.9	1286.0	1223.1
7.5°	1334.6	1337.5	1346.7	1351.0	1368.6	1375.2	1369.6	1362.3	1341.6	1281.5	1193.3
10°	1242.7	1248.3	1258.3	1264.9	1286.6	1304.3	1326.8	1328.8	1324.3	1266.7	1159.7
12.5°	1163.8	1169.0	1180.0	1193.3	1215.3	1238.4	1271.9	1283.7	1298.5	1257.1	1135.6
15°	1095.8	1097.3	1108.0	1124.6	1153.8	1185.1	1225.0	1242.4	1271.1	1253.5	1117.2
17.5°	1036.5	1036.7	1043.8	1058.9	1094.3	1135.6	1182.2	1205.0	1241.5	1248.3	1101.1
20°	997.3	996.8	997.3	1005.5	1036.7	1085.8	1142.4	1166.3	1213.3	1241.9	1084.3
22.5°	984.1	982.1	973.7	970.7	990.7	1033.8	1101.3	1132.8	1187.6	1240.1	1072.1
25°	1000.3	999.2	980.9	964.1	965.9	992.8	1059.6	1098.1	1167.7	1246.8	1069.3
27.5°	1052.6	1050.4	1022.7	989.6	968.6	973.3	1028.6	1068.9	1151.9	1263.0	1073.4
30°	1121.3	1121.7	1092.1	1051.8	1002.5	975.1	1012.0	1050.1	1141.2	1287.5	1082.2
32.5°	1197.7	1197.4	1176.3	1129.8	1066.6	1009.1	1019.4	1051.6	1142.7	1323.2	1099.2
35°	1276.8	1272.5	1265.6	1224.6	1150.8	1068.5	1053.1	1076.6	1158.3	1370.5	1127.9
37.5°	1367.8	1366.3	1373.4	1330.2	1254.9	1155.9	1112.0	1127.9	1197.4	1440.3	1174.4
40°	1512.8	1504.8	1508.1	1449.4	1372.3	1273.7	1194.7	1198.8	1259.8	1532.5	1247.8
42.5°	1789.3	1756.5	1694.8	1584.9	1501.4	1404.4	1302.9	1295.8	1347.8	1644.3	1344.7
45°	2119.7	2082.0	1926.7	1734.4	1630.7	1544.6	1436.5	1417.6	1456.4	1777.6	1469.4
47.5°	2395.4	2354.7	2148.8	1890.5	1762.0	1689.4	1584.5	1562.3	1586.3	1932.2	1619.1
50°	2489.6	2466.9	2286.1	2020.4	1894.5	1851.8	1770.1	1733.2	1739.2	2099.0	1794.2
52.5°	2446.4	2438.5	2317.4	2109.3	2017.1	2031.1	1973.5	1934.8	1928.1	2281.3	1987.5
55°	2355.1	2351.5	2292.5	2158.7	2125.2	2195.4	2258.8	2225.2	2162.5	2475.1	2147.4
57.5°	2224.8	2238.8	2281.3	2254.0	2258.1	2368.8	2523.8	2541.1	2447.4	2629.3	2265.9
60°	1876.7	1914.5	2109.0	2356.3	2545.5	2657.5	2807.7	2840.1	2688.7	2734.9	2402.7
62.5°	1387.4	1441.3	1718.5	2172.8	2704.0	3206.3	3185.2	3170.8	2919.1	2876.4	2651.8
65°	814.9	878.1	1112.5	1697.7	2465.2	3559.2	3890.2	3690.9	3270.1	3170.1	3048.7
67.5°	406.0	406.4	512.4	896.1	1821.9	3312.9	4919.2	4804.0	4016.4	3603.0	3205.2
70°	312.3	320.8	379.1	520.7	921.2	2580.3	5155.1	5627.8	4766.3	3583.9	2719.4
72.5°	264.6	270.2	337.4	453.3	688.7	1416.5	4462.6	4974.5	4548.3	3027.9	2004.5
75°	190.4	194.9	298.5	411.2	634.2	702.7	3061.2	3689.3	3412.7	2130.1	1103.2
77.5°	47.3	46.9	104.1	333.7	567.3	585.3	1756.5	2365.9	1958.0	872.2	283.4
80°	21.0	20.3	23.6	70.1	527.8	552.5	772.5	1194.7	751.2	141.4	86.7
82.5°	14.7	14.1	14.7	25.8	176.4	512.7	466.8	517.9	275.1	48.4	36.9
85°	4.9	4.4	8.2	21.7	49.4	295.6	455.4	386.8	204.5	20.8	24.8
87.5°	0.8	0.8	3.0	11.8	14.5	98.5	267.2	268.0	91.8	12.1	11.0
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°	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1	1237.1
2.5°	1218.3	1196.6	1165.9	1135.3	1107.6	1079.3	1056.3	1045.6	1040.9	1034.2	1019.8
5°	1190.3	1150.8	1083.6	1017.6	955.9	896.9	846.4	817.5	786.6	785.1	769.8
7.5°	1145.2	1089.1	983.3	880.7	786.6	696.5	618.9	568.7	534.4	513.0	498.3
10°	1095.0	1023.1	882.9	738.5	610.5	490.1	390.6	325.5	286.0	266.1	254.7
12.5°	1055.1	964.8	784.0	602.4	441.7	303.7	211.1	163.9	142.8	134.7	131.1
15°	1021.0	911.3	691.2	480.6	295.0	174.6	122.2	106.7	103.3	103.3	102.9
17.5°	986.2	859.6	601.2	360.9	185.7	114.4	96.3	94.1	94.5	95.6	95.6
20°	953.3	810.5	514.5	257.3	121.8	91.5	87.5	86.7	87.9	89.3	88.9
22.5°	926.8	767.3	433.3	176.7	93.8	83.1	80.5	79.4	80.0	81.1	80.8
25°	907.9	730.4	358.8	123.2	81.6	75.6	72.8	71.2	70.4	71.2	70.8
27.5°	896.5	699.4	288.6	92.6	73.1	68.4	64.6	61.7	59.7	59.7	59.1
30°	889.1	670.2	226.3	76.7	66.0	60.8	55.8	51.7	48.7	48.0	47.6
32.5°	888.8	645.2	169.1	67.9	59.4	53.4	47.3	42.1	38.7	38.0	37.6
35°	897.9	625.0	124.3	61.3	53.4	46.5	39.4	34.0	31.0	31.0	30.6
37.5°	922.0	613.1	94.1	56.1	48.7	40.7	33.1	28.0	25.4	26.2	26.2
40°	966.7	610.8	76.7	52.0	44.6	35.5	26.9	22.8	21.7	22.8	22.8
42.5°	1034.9	622.6	68.4	49.0	41.0	30.3	22.5	19.6	19.3	20.3	20.3
45°	1123.9	645.9	63.5	46.5	36.9	25.2	18.9	17.0	16.6	18.1	18.1
47.5°	1231.7	677.3	59.1	43.6	32.9	20.8	15.9	14.5	14.5	15.9	16.2
50°	1359.3	719.7	54.6	40.7	29.6	17.3	13.2	12.1	12.5	14.1	14.5
52.5°	1506.3	771.7	50.6	38.0	25.8	14.1	11.0	10.3	10.7	12.1	12.5
55°	1632.8	817.2	45.8	35.5	21.0	11.5	9.3	8.9	9.3	11.0	11.0
57.5°	1743.3	860.8	41.3	31.4	16.6	9.3	7.4	7.4	8.2	10.1	10.3
60°	1889.8	929.3	37.6	26.6	12.5	6.9	5.8	6.3	7.4	8.9	9.3
62.5°	2149.3	1045.9	32.9	22.2	9.3	5.5	4.9	5.2	6.6	8.4	8.9
65°	2474.0	1156.4	27.3	18.4	6.9	4.0	3.8	4.9	6.6	8.4	8.9
67.5°	2440.8	1005.7	21.4	14.7	5.2	3.4	3.0	4.4	6.3	8.4	8.9
70°	1979.4	705.0	15.9	10.1	4.0	3.0	3.0	4.4	6.3	8.2	8.4
72.5°	1373.0	392.3	12.1	6.6	3.8	3.0	2.5	4.0	5.8	8.2	8.4
75°	653.2	120.4	9.6	4.9	3.4	2.5	2.2	4.0	5.8	8.2	8.4
77.5°	125.6	30.6	7.7	4.0	3.0	2.5	2.2	3.8	5.8	7.7	8.2
80°	42.4	13.7	6.3	3.8	3.0	2.5	2.2	3.8	5.5	7.4	7.7
82.5°	23.3	7.7	5.5	3.4	3.0	2.2	1.8	3.4	5.2	7.4	7.7
85°	18.1	5.5	4.4	3.4	3.0	2.2	1.8	3.4	5.2	6.9	7.4
87.5°	9.3	4.0	3.8	3.4	3.0	2.2	1.8	3.0	4.9	6.6	7.4
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)