

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: P198666

Luminaire Tested: **XNV-AF-01-LED-U-AFL-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24283)
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-AFL-600-HSS
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3421.8 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 34
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

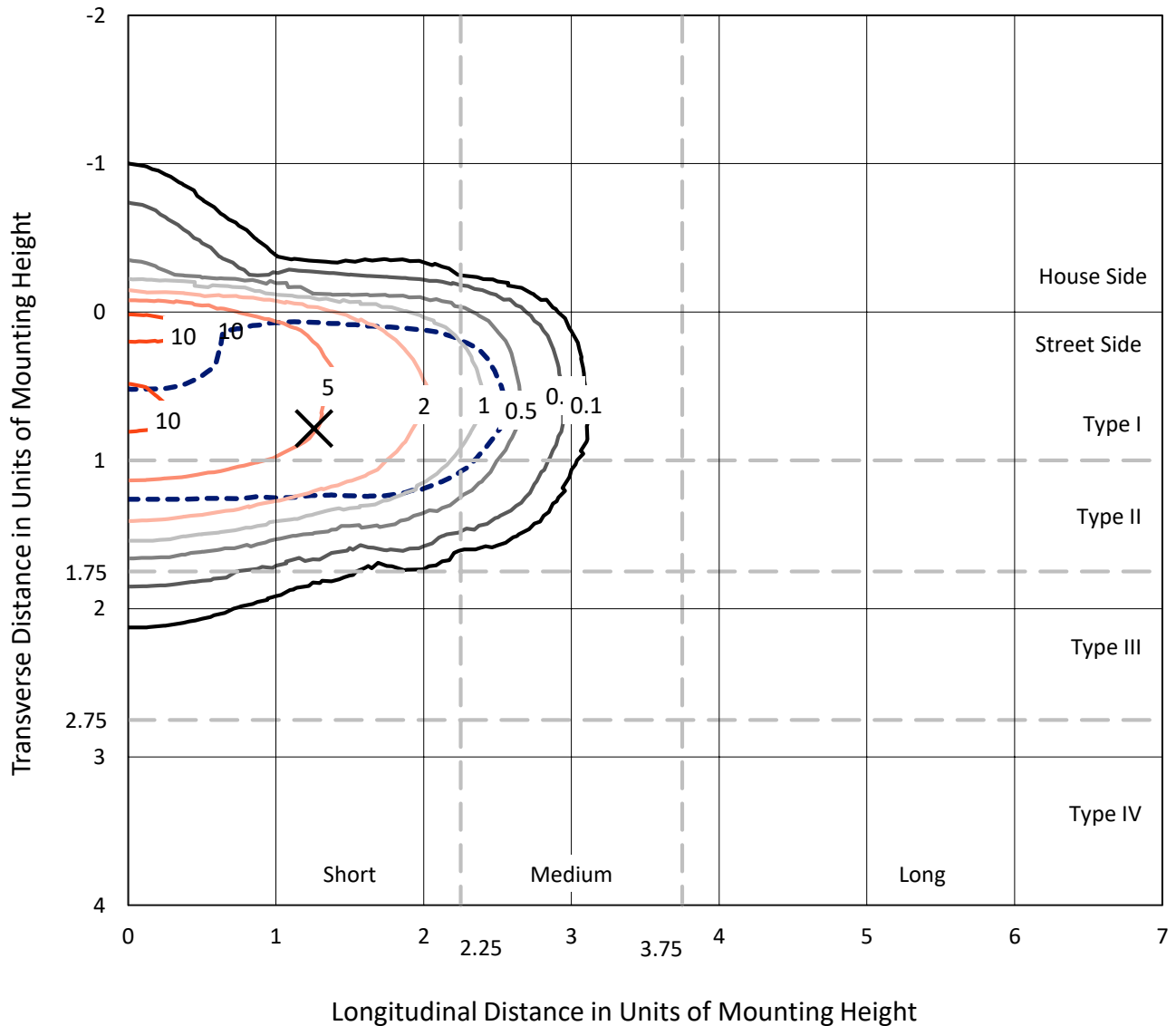


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Iso-Footcandle Lines of Horizontal Illumination

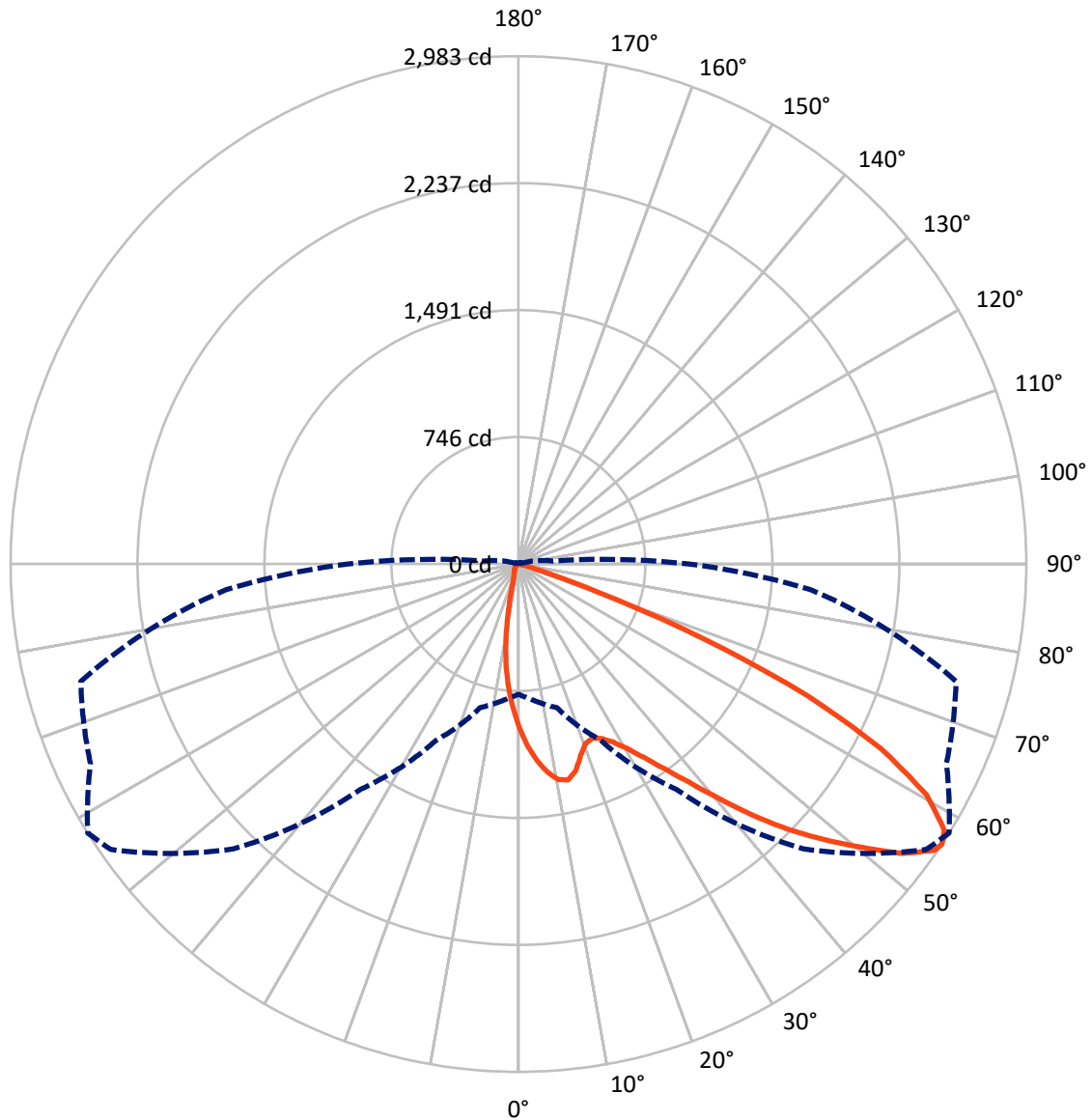
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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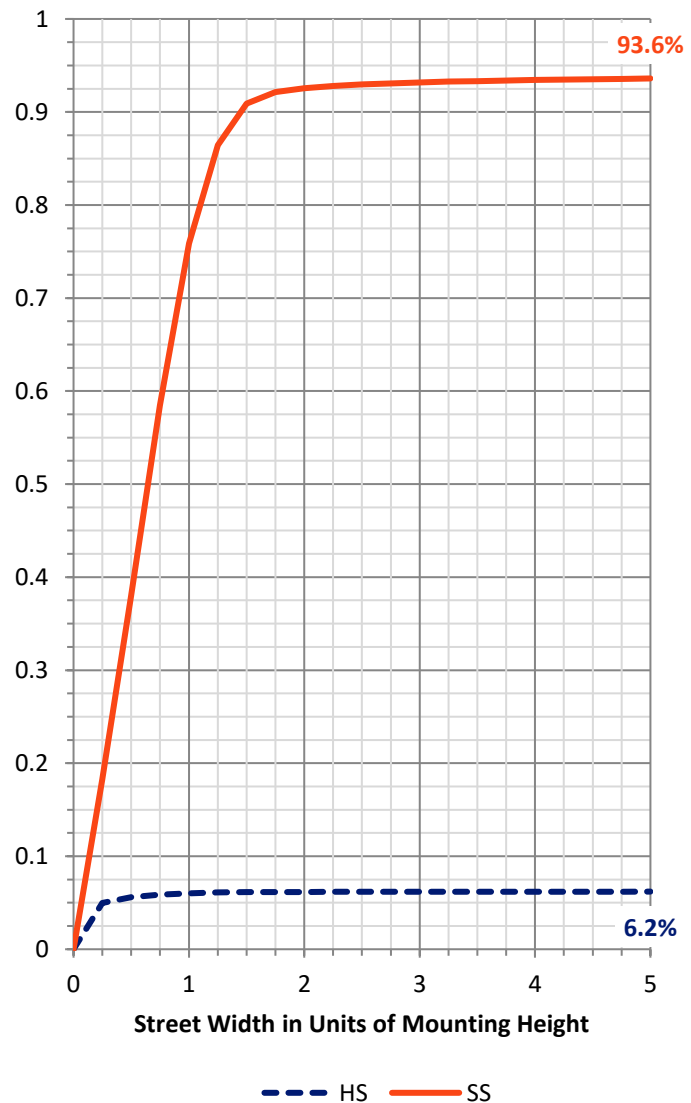
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	213.6	0.0	213.6
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	3208.2	0.0	3208.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	3421.8	0.0	3421.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.6	2.4
10°-20°	192.3	5.6
20°-30°	323.6	9.5
30°-40°	554.1	16.2
40°-50°	836.1	24.4
50°-60°	869.1	25.4
60°-70°	487.9	14.3
70°-80°	66.9	2.0
80°-90°	9.1	0.3
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°	3421.8	100.0
0°-180°	3421.8	100.0



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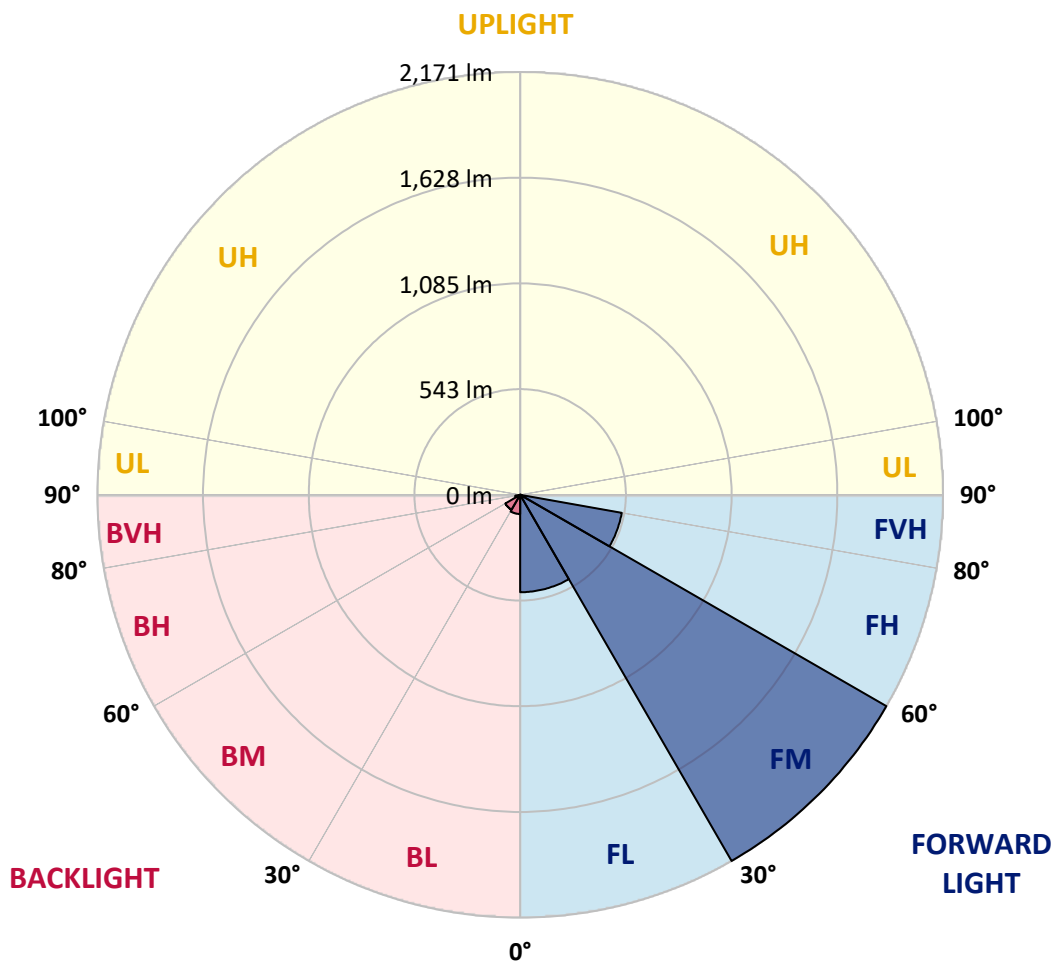
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	500.0	14.6			
FM	(30°-60°)	2170.9	63.4			
FH	(60°-80°)	529.5	15.5			G0/660
FVH	(80°-90°)	7.8	0.2			G0/10
BL	(0°-30°)	98.5	2.9	B0/110		
BM	(30°-60°)	88.5	2.6	B0/220		
BH	(60°-80°)	25.3	0.7	B0/110		G0/110
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8
2.5°	1165.7	1158.6	1151.3	1137.7	1125.1	1105.9	1079.2	1072.7	1051.8	1017.3	985.2
5°	1266.2	1264.9	1259.9	1248.9	1235.3	1211.9	1181.8	1161.8	1129.3	1075.0	1013.2
7.5°	1206.7	1217.6	1235.6	1261.2	1278.4	1276.0	1253.1	1235.6	1203.5	1129.3	1040.6
10°	1017.1	1019.2	1044.0	1097.7	1182.8	1262.2	1292.3	1287.6	1258.0	1176.9	1064.6
12.5°	950.3	951.5	957.3	974.6	1029.9	1140.6	1276.6	1301.1	1298.8	1222.3	1090.2
15°	955.5	956.3	957.9	963.3	979.0	1034.6	1197.3	1259.7	1324.9	1265.4	1115.2
17.5°	996.8	996.3	991.2	986.0	991.0	1009.2	1116.3	1182.1	1319.4	1301.7	1135.9
20°	1077.2	1079.7	1063.1	1039.8	1027.8	1028.6	1076.3	1125.7	1288.6	1329.8	1151.3
22.5°	1190.2	1192.0	1164.6	1124.4	1089.1	1071.4	1084.7	1110.8	1253.1	1355.9	1163.8
25°	1325.1	1325.1	1286.8	1229.6	1175.1	1136.2	1124.6	1134.6	1239.5	1385.5	1176.4
27.5°	1470.8	1476.0	1425.9	1351.0	1279.0	1222.0	1186.0	1184.2	1249.9	1422.5	1190.4
30°	1629.3	1634.0	1574.4	1482.9	1397.5	1324.6	1269.3	1257.3	1289.9	1472.4	1211.1
32.5°	1787.0	1790.9	1725.1	1631.6	1532.2	1446.6	1373.7	1354.7	1361.8	1545.3	1241.4
35°	1987.5	1988.3	1904.9	1793.7	1687.6	1587.0	1494.8	1476.0	1468.2	1637.1	1284.9
37.5°	2147.0	2140.7	2087.9	1982.8	1860.8	1755.9	1647.6	1623.0	1604.2	1766.3	1352.5
40°	2184.6	2184.6	2176.7	2145.1	2048.3	1947.3	1842.3	1805.8	1764.3	1918.5	1443.4
42.5°	2086.7	2093.0	2144.6	2213.3	2214.1	2149.3	2046.7	2015.9	1942.8	2091.9	1542.6
45°	1867.6	1869.4	1993.5	2178.9	2304.7	2341.7	2266.0	2223.5	2122.2	2272.1	1633.4
47.5°	1788.8	1794.6	1847.2	2073.9	2311.5	2497.6	2476.5	2417.9	2288.2	2436.5	1718.4
50°	1667.7	1674.7	1739.2	1919.4	2250.4	2597.6	2677.8	2615.1	2439.3	2573.5	1760.4
52.5°	1377.9	1388.9	1480.0	1715.0	2097.7	2601.8	2862.0	2824.5	2594.2	2646.9	1755.4
55°	948.2	956.3	1062.5	1338.7	1789.6	2474.1	2941.4	2967.3	2732.3	2663.4	1731.3
56°	765.0	795.2	873.0	1140.6	1614.1	2365.5	2923.1	2982.9	2773.3	2660.8	1720.9
57.5°	505.6	511.4	596.3	826.5	1296.2	2129.8	2840.6	2949.5	2826.0	2647.4	1713.3
60°	237.8	240.4	271.0	381.5	701.4	1552.0	2572.5	2753.2	2845.3	2619.5	1713.1
62.5°	155.1	155.6	159.3	182.0	286.9	845.4	2132.6	2392.7	2685.3	2616.4	1708.1
65°	127.7	129.0	124.5	127.4	150.1	318.8	1504.2	1865.2	2309.6	2542.7	1652.3
67.5°	112.5	112.7	106.8	103.4	109.9	139.9	757.9	1176.6	1727.5	2160.6	1360.9
70°	102.6	102.3	95.5	87.7	88.0	93.0	246.9	488.7	955.7	1282.9	781.3
72.5°	91.1	91.7	87.7	76.7	73.1	65.8	93.0	131.9	325.3	411.9	206.0
75°	79.9	78.9	74.9	67.9	61.1	44.1	46.7	56.2	84.8	84.1	44.4
77.5°	60.6	59.5	61.4	58.0	47.8	30.8	25.6	29.3	38.4	35.8	18.0
80°	46.2	45.7	41.7	49.6	43.6	23.2	17.5	18.0	20.9	19.0	8.9
82.5°	33.5	33.1	31.6	30.6	27.7	17.0	13.3	14.1	15.7	13.3	6.5
85°	12.8	12.8	24.8	20.9	19.0	11.5	9.4	10.2	12.0	9.6	4.4
87.5°	2.0	2.0	16.7	13.8	8.6	5.7	6.0	6.5	7.1	5.7	3.4
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°	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8	968.8
2.5°	966.2	948.7	910.3	873.3	840.9	805.4	787.4	766.5	758.6	743.0	744.5
5°	976.1	939.6	862.6	781.3	707.0	631.3	577.5	526.8	498.6	470.7	470.7
7.5°	986.3	930.5	811.4	681.6	556.3	426.6	334.7	261.1	220.0	192.6	191.9
10°	993.4	918.7	753.2	566.0	381.2	219.8	132.6	104.4	94.2	89.8	89.5
12.5°	1002.5	906.9	686.8	429.7	211.8	104.4	82.8	78.4	76.5	75.5	75.5
15°	1010.3	890.3	606.4	289.0	111.2	78.4	71.3	69.7	69.5	69.2	69.5
17.5°	1012.1	866.4	510.1	169.2	80.7	68.4	65.3	63.9	63.9	63.7	63.7
20°	1008.0	835.1	403.6	104.4	69.7	62.9	59.5	58.0	57.7	57.7	57.7
22.5°	999.3	795.2	298.4	79.1	63.4	58.0	53.5	52.0	52.0	52.2	52.5
25°	988.7	748.0	204.9	68.1	58.7	52.8	48.3	46.7	47.3	47.8	48.1
27.5°	975.1	691.5	134.2	59.0	52.5	47.5	43.6	42.6	43.6	44.6	45.2
30°	961.5	629.7	90.8	51.1	45.4	41.7	39.4	39.2	40.7	43.1	43.4
32.5°	952.6	566.2	68.6	45.9	39.9	36.8	35.8	36.3	38.7	41.2	41.7
35°	951.9	504.4	58.5	41.7	36.3	33.5	32.9	34.5	37.0	39.2	39.7
37.5°	964.1	446.4	53.0	38.7	33.5	30.6	29.8	32.6	35.0	37.0	37.5
40°	988.9	394.4	49.3	35.8	31.1	27.7	27.1	29.5	31.8	34.2	35.0
42.5°	1020.0	345.9	45.2	32.9	28.4	24.6	24.0	25.9	28.2	31.6	32.1
45°	1046.9	300.7	40.7	29.8	25.6	21.2	20.9	23.0	24.8	27.9	28.4
47.5°	1069.6	263.1	36.5	26.4	21.9	18.8	18.5	19.5	20.7	23.5	24.0
50°	1057.5	231.3	32.3	21.7	17.8	16.2	16.0	16.0	17.2	20.2	20.7
52.5°	1028.1	211.4	28.4	18.0	14.6	13.8	13.1	13.3	14.6	16.0	16.2
55°	1004.3	202.0	25.1	16.0	12.3	11.5	10.7	10.4	10.7	10.2	9.6
56°	998.6	201.0	24.2	15.4	11.8	10.7	9.6	9.1	8.9	7.9	7.6
57.5°	995.9	201.0	23.0	14.3	10.9	9.6	8.4	7.3	6.2	5.5	5.5
60°	993.9	202.3	21.4	12.5	9.4	7.9	6.0	4.4	3.7	3.7	3.7
62.5°	989.4	201.8	19.5	10.4	8.1	6.0	3.7	2.9	2.7	2.9	3.2
65°	939.6	187.4	17.2	8.4	6.2	4.2	2.0	2.0	2.4	2.9	3.2
67.5°	757.1	142.0	14.1	6.5	4.4	3.2	1.8	1.8	2.4	2.9	3.2
70°	415.8	74.9	12.0	4.7	3.4	2.7	1.8	1.5	2.4	2.9	3.2
72.5°	101.6	31.3	10.9	3.7	3.2	2.4	1.5	1.5	2.4	2.9	3.2
75°	25.1	23.5	8.9	2.9	2.7	2.0	1.5	1.5	2.4	2.9	3.2
77.5°	11.8	31.1	6.0	2.7	2.4	1.8	1.5	1.5	2.4	2.9	2.9
80°	7.1	23.5	3.7	2.4	2.0	1.8	1.5	1.5	2.4	2.9	3.2
82.5°	4.2	6.8	2.7	2.4	2.0	1.5	1.5	1.5	2.4	2.9	3.2
85°	3.7	3.4	2.7	2.4	2.0	1.8	1.5	1.5	2.7	3.2	3.2
87.5°	2.9	2.7	2.4	2.0	2.0	1.8	1.5	1.5	2.4	2.9	3.2
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)