

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: McGRAW-EDISON

Report Number: P450222

Luminaire Tested: **GALN-SA1A-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450222
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3453 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

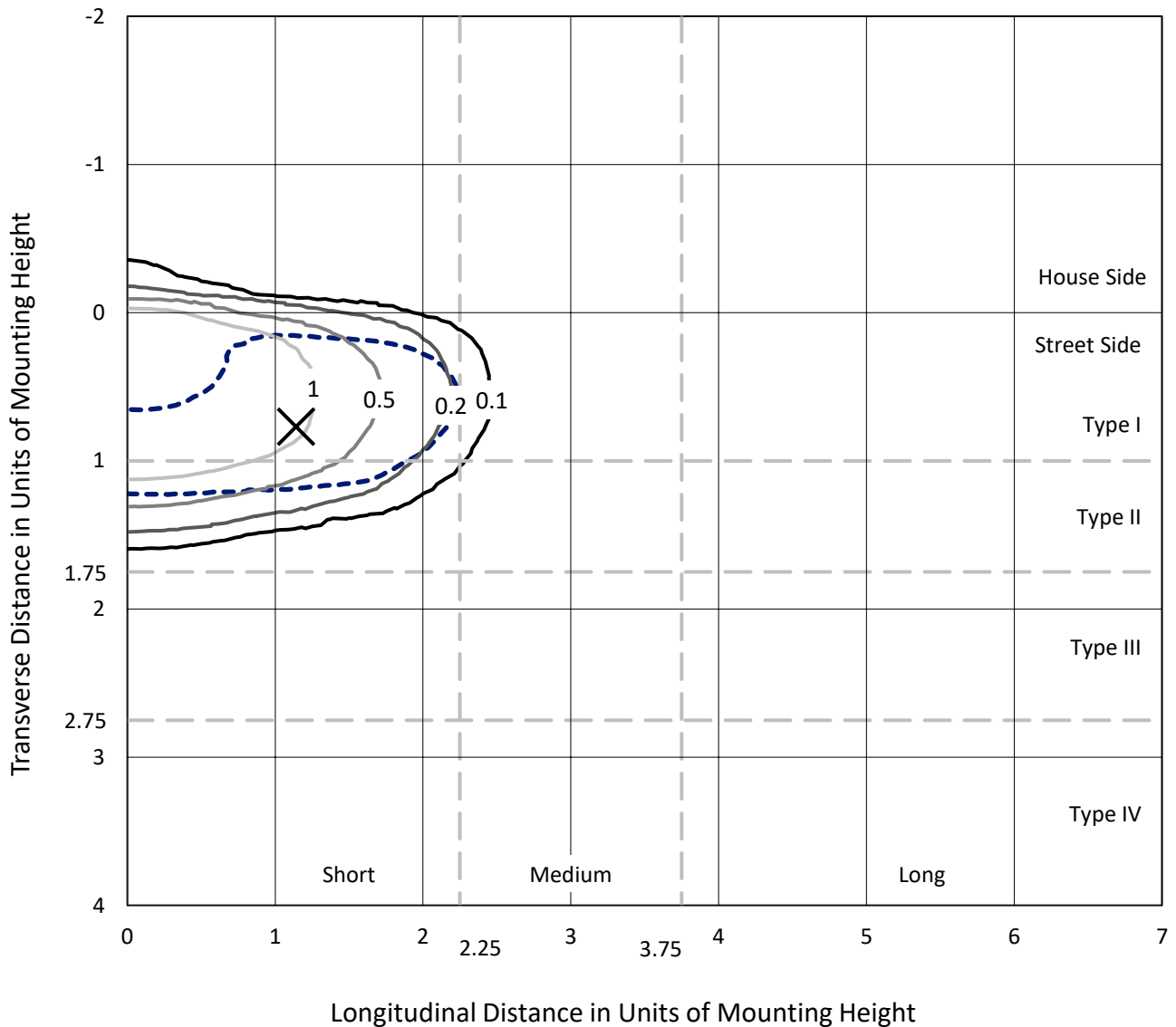
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

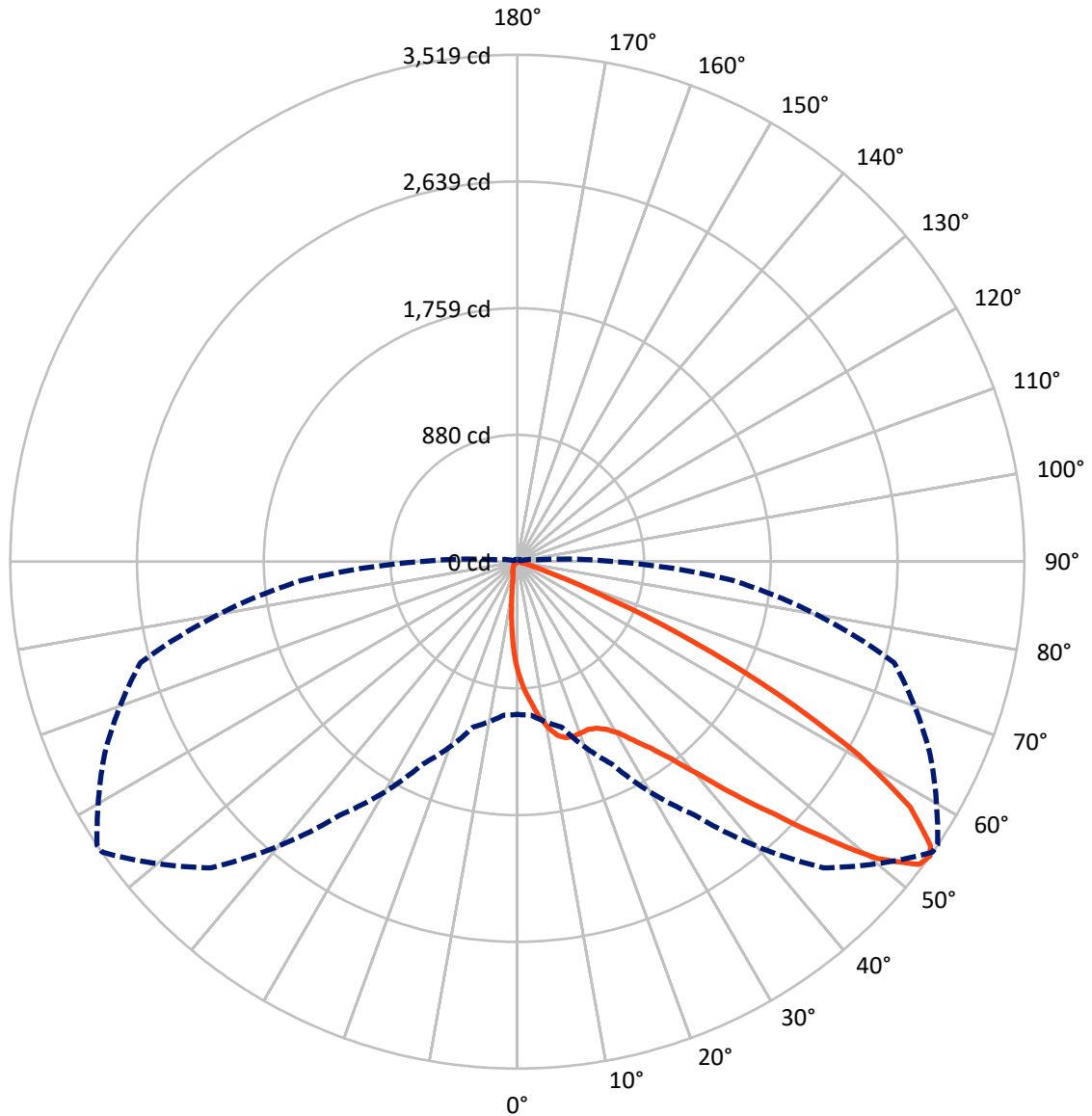
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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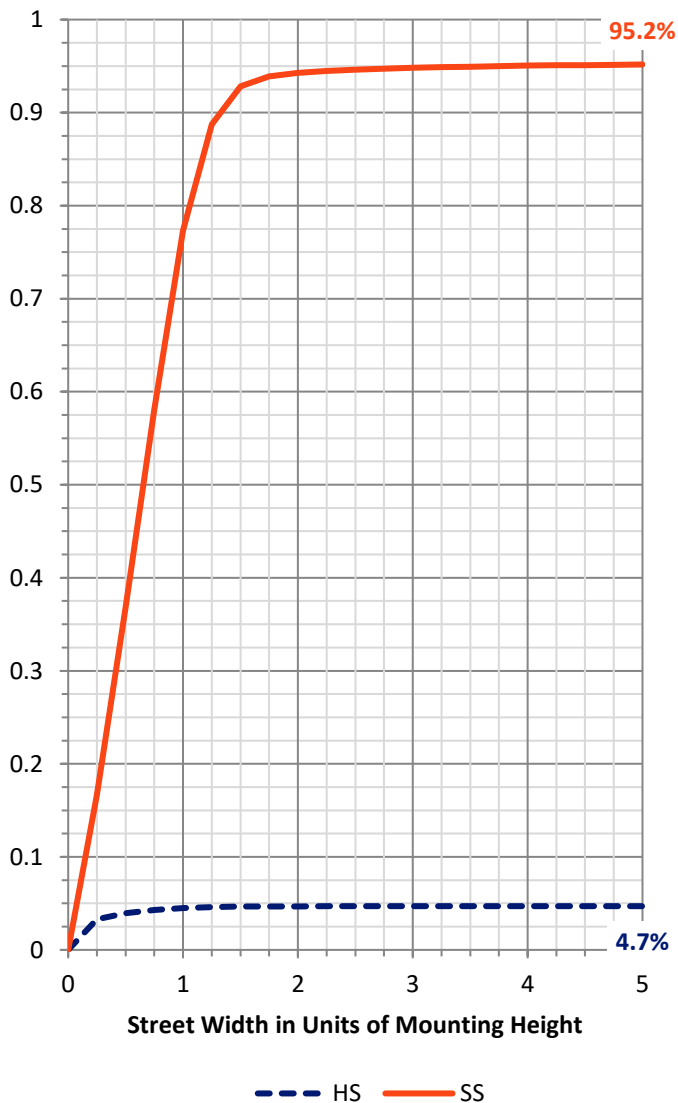
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	163.3	0.0	163.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	3289.7	0.0	3289.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	3453.0	0.0	3453.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	2.0
10°-20°	183.3	5.3
20°-30°	317.4	9.2
30°-40°	547.9	15.9
40°-50°	932.5	27.0
50°-60°	922.8	26.7
60°-70°	421.2	12.2
70°-80°	54.1	1.6
80°-90°	6.1	0.2
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°	3453.0	100.0
0°-180°	3453.0	100.0



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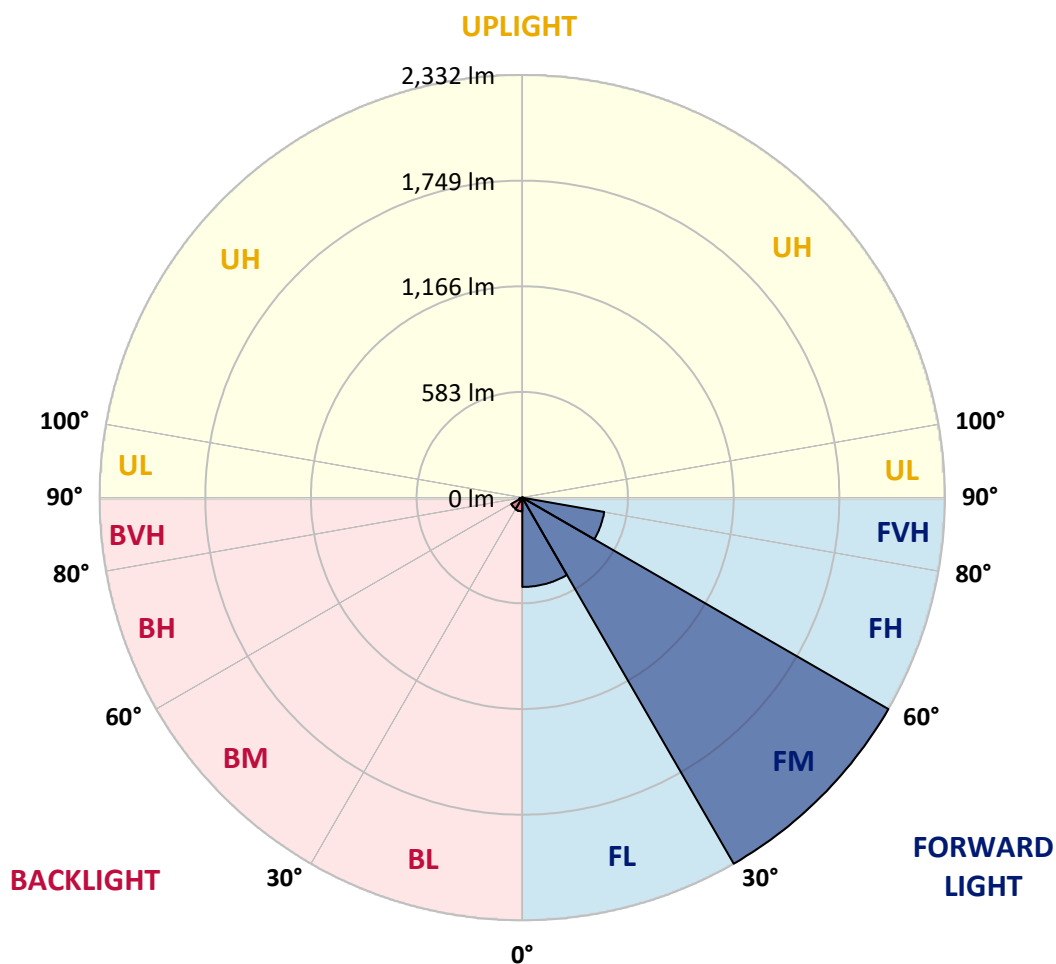
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.9	14.3			
FM (30°-60°)	2332.4	67.5			
FH (60°-80°)	458.9	13.3			G0/660
FVH (80°-90°)	5.4	0.2			G0/10
BL (0°-30°)	75.5	2.2	B0/110		
BM (30°-60°)	70.8	2.0	B0/220		
BH (60°-80°)	16.4	0.5	B0/110		G0/110
BVH (80°-90°)	0.7	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°	56°	65°	75°	85°
0°	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2
2.5°	975.0	968.2	958.9	951.7	934.7	910.2	884.3	884.3	859.4	824.7	789.3
5°	1124.5	1120.1	1111.0	1092.4	1073.3	1039.0	987.1	978.0	933.5	870.6	804.4
7.5°	1185.3	1187.4	1187.9	1183.0	1173.9	1140.1	1088.7	1082.4	1011.3	927.0	824.2
10°	1127.1	1137.3	1147.4	1167.6	1196.3	1204.4	1175.3	1168.8	1098.9	984.0	845.7
12.5°	1040.4	1046.0	1051.6	1083.5	1141.1	1207.0	1237.5	1237.3	1178.1	1040.9	872.9
15°	1000.1	1005.0	1005.5	1019.7	1069.5	1165.5	1264.1	1267.6	1255.5	1111.0	902.3
17.5°	1008.5	1012.5	1009.2	1012.7	1038.8	1119.9	1261.0	1272.7	1318.1	1178.3	928.8
20°	1063.3	1070.9	1058.4	1048.6	1056.5	1107.8	1250.8	1267.1	1362.4	1244.0	953.1
22.5°	1161.6	1165.8	1149.9	1123.1	1109.2	1133.1	1248.0	1264.1	1400.1	1297.9	967.0
25°	1270.8	1269.4	1252.0	1221.9	1192.6	1184.4	1266.4	1280.8	1431.3	1346.3	971.2
27.5°	1380.1	1384.3	1354.9	1317.7	1282.5	1261.3	1307.6	1318.4	1466.5	1401.5	976.4
30°	1507.1	1500.3	1471.4	1428.8	1388.5	1358.9	1374.0	1377.1	1515.0	1474.7	989.9
32.5°	1672.2	1653.6	1621.2	1546.7	1517.8	1467.7	1471.4	1475.1	1573.9	1547.1	1006.2
35°	1896.3	1895.4	1832.0	1731.6	1661.3	1599.1	1582.8	1585.8	1663.1	1654.8	1042.3
37.5°	2166.1	2169.8	2097.6	1996.5	1867.0	1768.2	1734.7	1735.1	1798.7	1803.4	1097.3
40°	2385.8	2395.6	2352.5	2284.2	2156.3	2001.9	1945.5	1940.4	1989.3	1983.5	1175.8
42.5°	2480.4	2489.5	2505.6	2529.3	2459.0	2331.5	2198.5	2205.5	2220.4	2179.6	1263.8
45°	2434.0	2448.5	2511.6	2658.4	2724.5	2681.7	2523.0	2498.6	2435.4	2392.8	1352.4
47.5°	2240.9	2276.1	2381.6	2626.0	2857.6	3002.5	2889.2	2856.9	2650.7	2548.4	1408.7
50°	1923.4	1925.5	2072.5	2384.9	2788.6	3204.9	3263.2	3238.9	2851.3	2635.8	1437.2
52.5°	1394.3	1440.2	1574.9	1936.6	2489.9	3174.2	3501.5	3491.5	3058.1	2680.5	1478.2
54°	1060.0	1068.8	1188.6	1547.6	2146.8	3005.3	3516.2	3518.5	3160.9	2707.5	1502.4
55°	869.0	847.8	973.6	1318.4	1912.7	2855.9	3468.2	3479.3	3207.0	2721.5	1520.3
57.5°	411.9	412.1	508.3	695.4	1197.9	2217.6	3174.9	3214.5	3212.1	2745.5	1575.5
60°	208.5	209.9	231.1	321.0	591.7	1474.2	2625.1	2719.4	2965.0	2749.0	1593.7
62.5°	145.8	144.2	140.7	154.5	249.0	749.2	1954.4	2036.4	2519.1	2616.0	1535.9
65°	124.9	121.4	111.6	109.5	125.8	298.4	1217.2	1351.0	1923.4	2265.1	1371.5
67.5°	106.7	105.3	96.4	91.1	89.0	130.0	628.1	698.4	1314.6	1628.2	1038.8
70°	90.6	89.9	84.6	77.8	72.0	77.8	233.0	288.6	732.7	876.7	490.2
72.5°	73.6	74.3	75.2	66.6	60.6	55.2	99.5	115.8	306.6	313.3	171.5
75°	64.5	63.8	63.8	58.0	50.6	41.0	54.7	58.9	93.9	87.1	39.8
77.5°	45.4	43.8	51.3	47.8	42.2	29.1	31.2	33.1	38.9	33.3	18.6
80°	31.5	31.5	32.8	42.9	38.0	21.2	19.1	20.5	23.1	19.8	10.7
82.5°	17.7	18.2	21.4	22.8	22.1	14.2	12.6	12.8	15.4	13.5	6.8
85°	2.1	3.5	12.3	12.1	9.1	6.3	7.0	7.2	9.6	8.4	4.0
87.5°	0.2	0.5	2.6	3.3	2.3	2.6	2.6	2.6	3.3	3.7	2.8
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°	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2
2.5°	770.2	752.5	710.3	661.4	630.2	579.4	536.5	505.5	497.8	482.9	487.4
5°	769.3	732.4	646.5	555.6	458.7	386.5	332.7	290.3	271.6	259.3	250.7
7.5°	769.7	712.2	574.3	429.6	313.8	243.0	193.1	167.3	150.0	142.8	143.7
10°	771.1	689.3	490.4	318.2	211.8	157.0	126.5	114.2	108.3	107.4	107.2
12.5°	774.4	664.4	410.3	236.2	148.2	114.2	102.5	98.3	96.4	96.4	95.7
15°	777.9	636.9	343.6	175.7	114.2	98.1	92.7	90.6	89.5	89.5	89.2
17.5°	777.9	605.2	281.4	136.3	98.3	90.2	86.0	83.2	82.2	82.2	82.0
20°	773.0	568.4	226.2	109.7	89.2	82.7	78.5	75.5	74.3	73.9	73.6
22.5°	756.0	519.3	180.1	94.4	81.8	76.2	70.8	67.3	66.4	65.9	66.2
25°	725.7	463.8	142.6	82.9	75.0	68.3	63.6	61.0	60.1	60.1	60.3
27.5°	694.5	405.8	113.0	74.3	66.9	60.8	57.1	55.4	55.2	55.9	56.1
30°	665.6	347.6	91.6	67.3	59.6	54.5	52.0	51.5	51.5	51.7	52.0
32.5°	633.4	296.6	76.6	61.3	53.8	49.4	48.0	48.0	48.5	48.5	48.9
35°	613.2	252.8	67.3	55.4	49.4	45.7	44.7	45.0	45.7	46.6	47.1
37.5°	602.2	217.8	61.3	50.8	45.2	42.6	41.7	42.2	43.8	45.4	45.7
40°	603.1	191.5	56.4	46.8	41.9	39.1	38.4	39.8	41.5	43.1	43.3
42.5°	613.4	171.9	51.7	42.2	39.1	35.2	34.9	36.3	37.0	38.7	38.9
45°	625.5	157.7	46.8	37.3	34.0	30.5	30.8	31.9	32.8	35.4	35.9
47.5°	629.2	147.9	41.2	31.7	28.0	26.8	27.0	27.7	29.6	31.9	32.1
50°	633.4	141.9	35.9	26.8	23.8	23.5	23.8	24.2	25.4	26.3	26.1
52.5°	651.4	141.6	31.5	23.3	20.3	20.7	21.0	20.7	19.8	18.4	17.9
54°	668.1	142.3	29.4	21.7	18.6	19.3	19.1	17.9	15.6	14.2	13.5
55°	681.7	143.0	28.2	20.5	17.7	17.9	18.2	15.8	12.8	11.4	10.9
57.5°	708.2	141.4	25.4	17.9	15.6	14.7	14.4	10.5	7.0	6.1	5.6
60°	694.9	127.7	23.1	15.4	13.3	11.9	9.8	5.8	3.5	2.6	2.6
62.5°	642.8	108.3	20.5	12.6	10.9	9.1	5.1	3.3	1.6	0.9	0.7
65°	575.0	91.1	18.4	10.0	8.6	5.8	2.8	2.1	0.7	0.0	0.0
67.5°	427.5	67.6	15.6	7.9	6.5	3.7	1.9	1.2	0.2	0.0	0.0
70°	198.0	41.2	13.3	6.1	4.7	2.8	1.4	0.7	0.0	0.0	0.0
72.5°	56.8	25.9	10.9	4.4	3.3	2.3	1.2	0.5	0.2	0.0	0.0
75°	19.8	20.7	8.2	3.3	2.6	1.6	0.9	0.5	0.2	0.0	0.0
77.5°	11.9	16.8	5.1	2.8	2.1	1.4	0.9	0.5	0.2	0.2	0.0
80°	6.8	11.2	3.3	2.3	1.9	1.2	0.7	0.5	0.2	0.2	0.0
82.5°	3.7	5.4	2.6	2.1	1.6	1.2	0.7	0.5	0.2	0.2	0.2
85°	3.0	2.8	2.1	1.9	1.4	0.9	0.7	0.2	0.0	0.0	0.0
87.5°	2.3	1.9	1.9	1.9	1.4	0.9	0.7	0.2	0.0	0.0	0.0
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)