

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: P652159

Luminaire Tested: **GALN-SA1B-840-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652159
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-SA1B-840-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 4000K, 800mA 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: 3967 lumens
Efficiency: N/A
Efficacy: 90.2 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

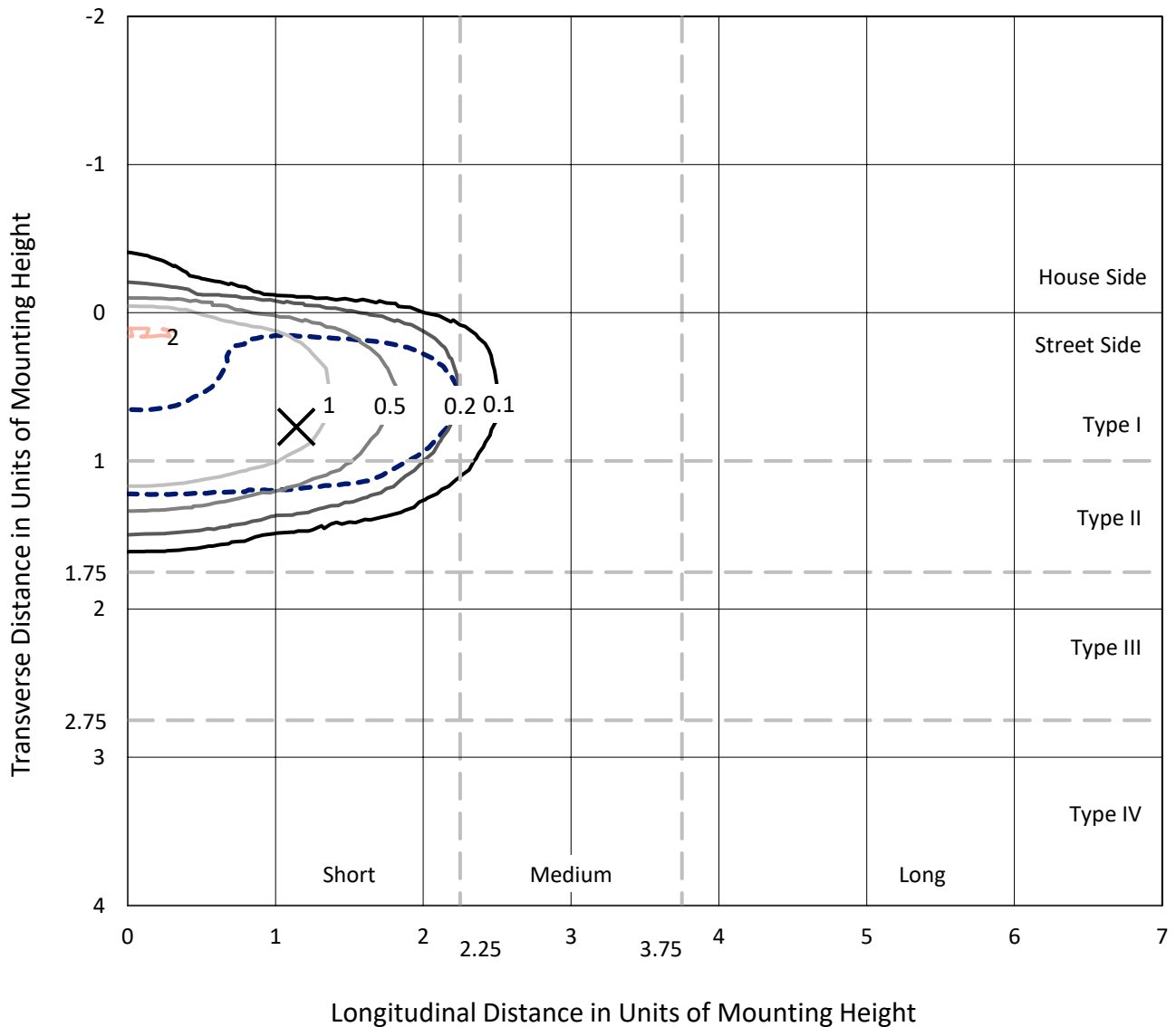
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

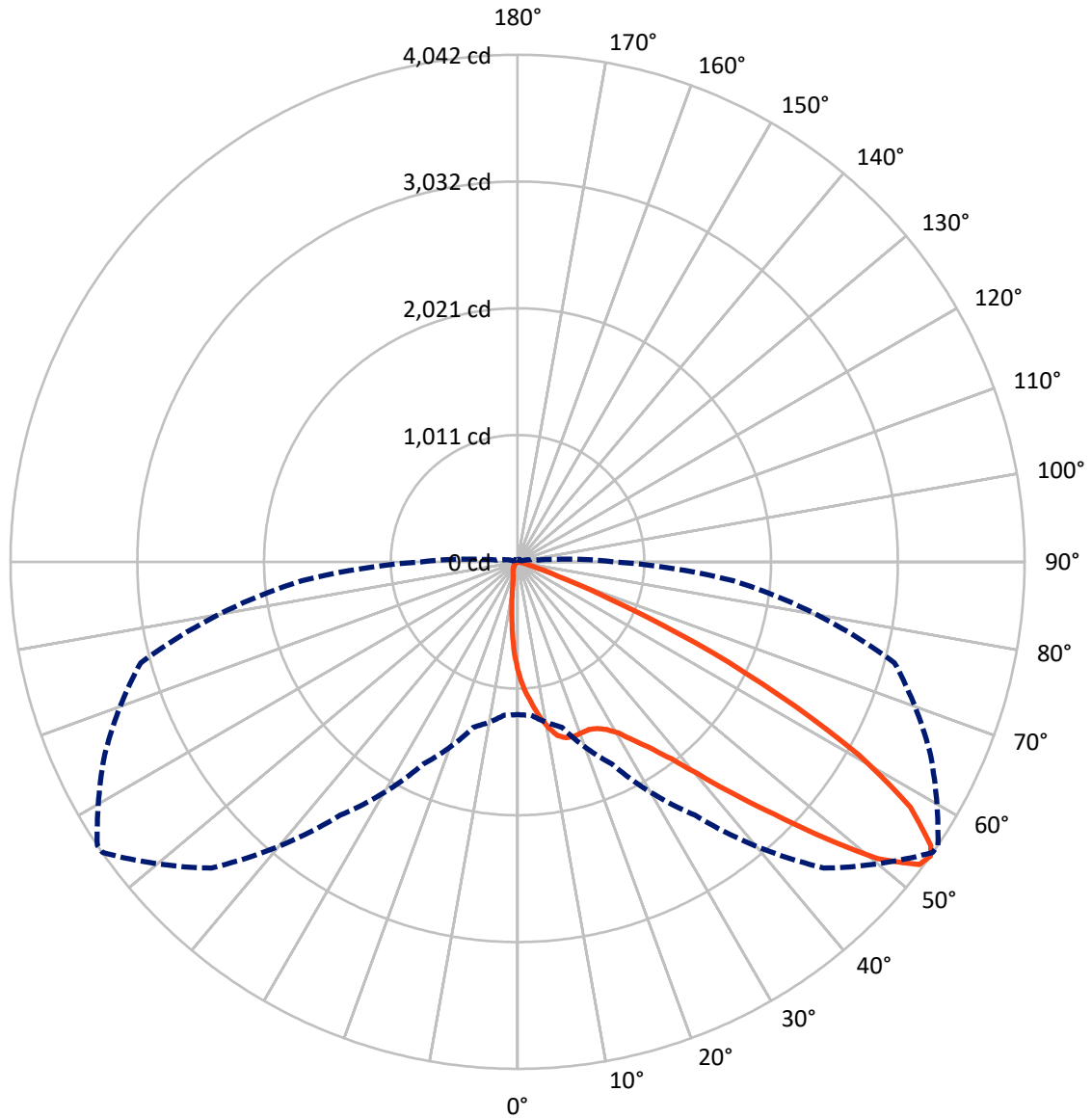
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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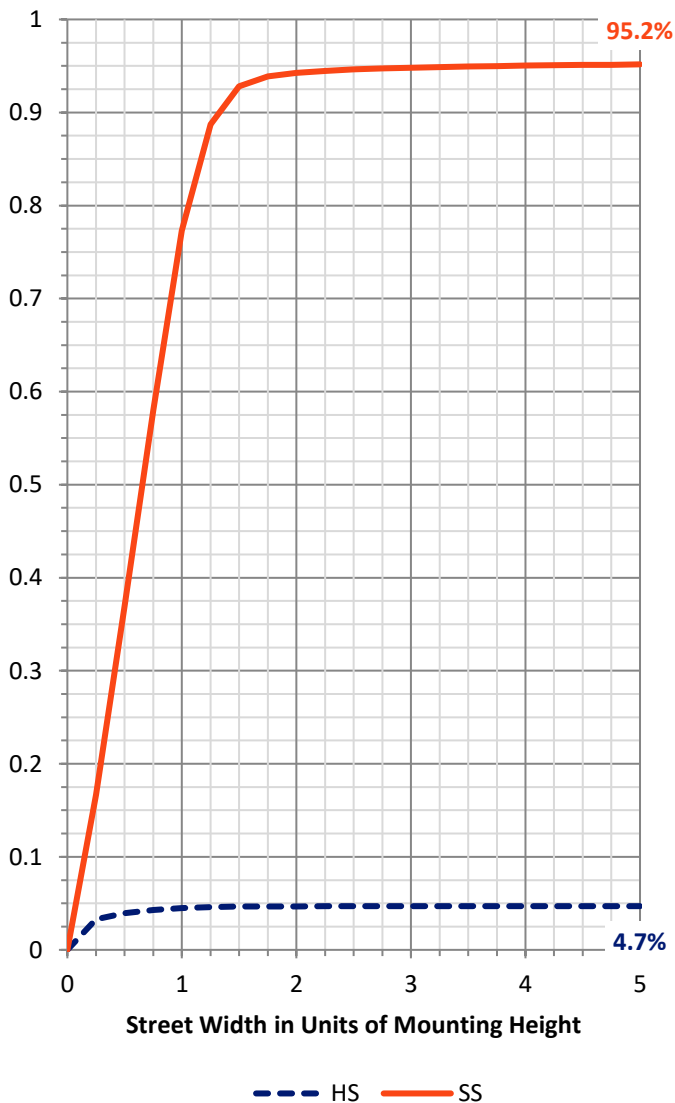
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	187.6	0.0	187.6
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	3779.4	0.0	3779.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	3967.0	0.0	3967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	2.0
10°-20°	210.5	5.3
20°-30°	364.6	9.2
30°-40°	629.4	15.9
40°-50°	1071.3	27.0
50°-60°	1060.2	26.7
60°-70°	483.9	12.2
70°-80°	62.1	1.6
80°-90°	7.0	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°	3967.0	100.0
0°-180°	3967.0	100.0

Coefficient of Utilization

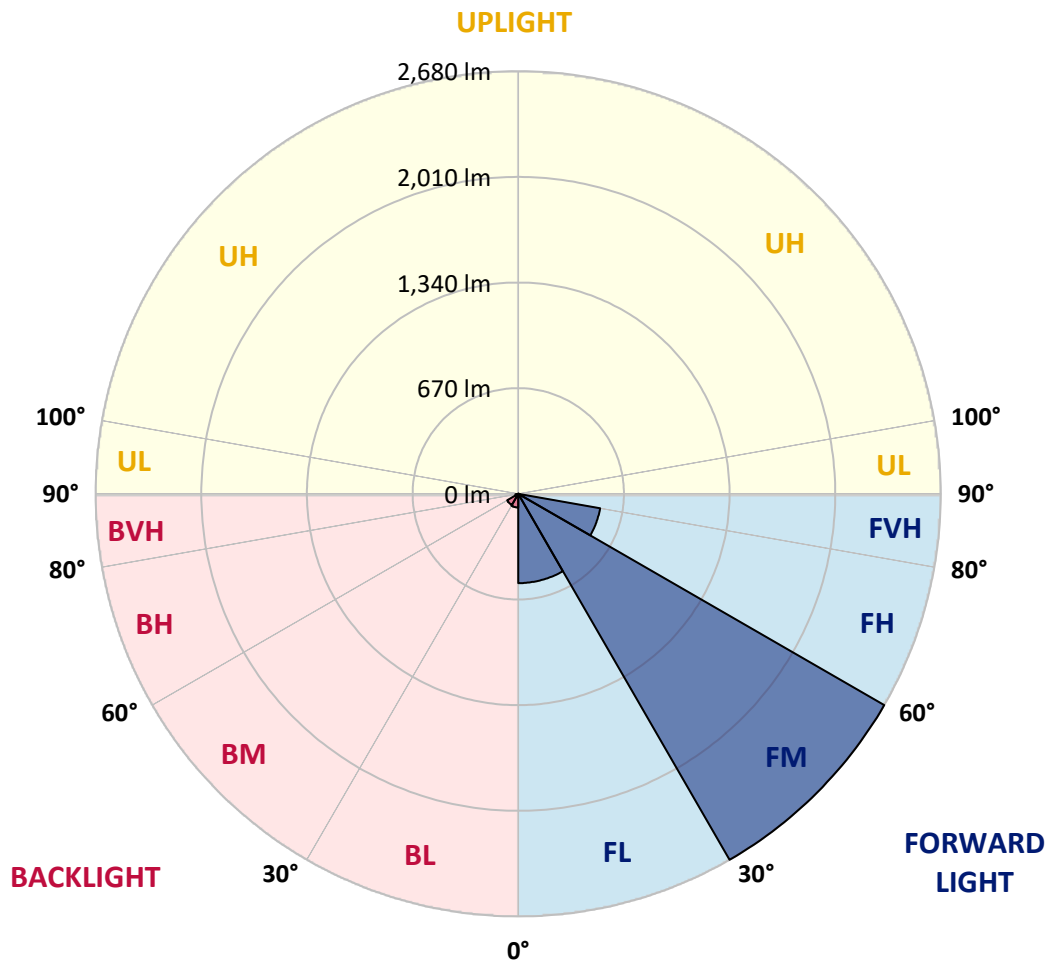


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.3	14.3			
FM (30°-60°)	2679.6	67.5			
FH (60°-80°)	527.3	13.3			G0/660
FVH (80°-90°)	6.3	0.2			G0/10
BL (0°-30°)	86.8	2.2	B0/110		
BM (30°-60°)	81.3	2.0	B0/220		
BH (60°-80°)	18.8	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°	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4
2.5°	1120.1	1112.3	1101.6	1093.3	1073.8	1045.7	1016.0	1016.0	987.3	947.5	906.8
5°	1291.9	1286.8	1276.4	1255.0	1233.1	1193.7	1134.0	1123.6	1072.4	1000.2	924.2
7.5°	1361.7	1364.2	1364.7	1359.1	1348.6	1309.9	1250.7	1243.5	1161.8	1065.0	947.0
10°	1294.9	1306.7	1318.2	1341.4	1374.4	1383.7	1350.2	1342.7	1262.5	1130.6	971.5
12.5°	1195.3	1201.7	1208.2	1244.8	1311.0	1386.6	1421.7	1421.5	1353.5	1195.8	1002.9
15°	1149.0	1154.6	1155.1	1171.5	1228.8	1339.0	1452.2	1456.3	1442.3	1276.4	1036.6
17.5°	1158.6	1163.2	1159.4	1163.4	1193.5	1286.6	1448.8	1462.2	1514.3	1353.8	1067.1
20°	1221.6	1230.4	1215.9	1204.6	1213.7	1272.7	1437.0	1455.7	1565.2	1429.2	1094.9
22.5°	1334.5	1339.3	1321.1	1290.3	1274.3	1301.8	1433.7	1452.2	1608.6	1491.0	1111.0
25°	1460.0	1458.4	1438.4	1403.8	1370.1	1360.7	1454.9	1471.5	1644.4	1546.7	1115.8
27.5°	1585.5	1590.3	1556.6	1513.8	1473.3	1449.0	1502.3	1514.6	1684.9	1610.2	1121.7
30°	1731.4	1723.6	1690.4	1641.5	1595.1	1561.1	1578.6	1582.0	1740.4	1694.2	1137.2
32.5°	1921.2	1899.7	1862.6	1776.9	1743.7	1686.1	1690.4	1694.7	1808.2	1777.5	1156.0
35°	2178.6	2177.5	2104.8	1989.4	1908.6	1837.1	1818.4	1821.9	1910.8	1901.1	1197.4
37.5°	2488.5	2492.8	2409.9	2293.7	2144.9	2031.4	1992.9	1993.4	2066.5	2071.8	1260.6
40°	2741.0	2752.2	2702.6	2624.3	2477.3	2299.9	2235.1	2229.2	2285.4	2278.7	1350.8
42.5°	2849.6	2860.1	2878.5	2905.8	2825.0	2678.6	2525.8	2533.8	2550.9	2504.1	1452.0
45°	2796.3	2813.0	2885.5	3054.1	3130.1	3080.8	2898.6	2870.5	2797.9	2749.0	1553.7
47.5°	2574.5	2614.9	2736.1	3016.9	3282.9	3449.4	3319.3	3282.1	3045.3	2927.8	1618.4
50°	2209.6	2212.1	2381.0	2739.9	3203.7	3682.0	3748.9	3721.1	3275.7	3028.1	1651.1
52.5°	1601.9	1654.6	1809.2	2224.9	2860.6	3646.7	4022.7	4011.1	3513.4	3079.5	1698.2
54°	1217.8	1227.9	1365.5	1778.0	2466.3	3452.6	4039.6	4042.3	3631.4	3110.5	1726.1
55°	998.4	974.0	1118.4	1514.6	2197.4	3281.1	3984.4	3997.3	3684.4	3126.6	1746.7
57.5°	473.2	473.5	584.0	798.9	1376.2	2547.7	3647.4	3692.9	3690.3	3154.2	1810.1
60°	239.5	241.1	265.5	368.8	679.8	1693.7	3015.8	3124.2	3406.3	3158.2	1830.9
62.5°	167.5	165.7	161.6	177.5	286.1	860.8	2245.3	2339.5	2894.0	3005.4	1764.6
65°	143.5	139.4	128.2	125.8	144.6	342.9	1398.4	1552.1	2209.6	2602.3	1575.6
67.5°	122.6	120.9	110.8	104.6	102.3	149.4	721.6	802.4	1510.4	1870.6	1193.5
70°	104.1	103.3	97.1	89.4	82.7	89.4	267.6	331.6	841.8	1007.2	563.1
72.5°	84.6	85.4	86.5	76.5	69.6	63.4	114.3	133.0	352.2	359.9	197.0
75°	74.2	73.3	73.3	66.6	58.1	47.1	62.9	67.7	107.9	100.1	45.8
77.5°	52.2	50.3	58.9	54.8	48.4	33.5	35.8	38.0	44.7	38.3	21.4
80°	36.2	36.2	37.8	49.3	43.6	24.4	22.0	23.5	26.5	22.8	12.3
82.5°	20.4	20.9	24.6	26.2	25.4	16.3	14.5	14.7	17.7	15.6	7.7
85°	2.4	4.0	14.2	13.9	10.4	7.2	8.0	8.3	10.9	9.7	4.5
87.5°	0.3	0.5	2.9	3.8	2.7	2.9	2.9	2.9	3.8	4.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4	881.4
2.5°	884.8	864.5	816.0	759.8	724.0	665.7	616.4	580.8	572.0	554.8	559.9
5°	883.7	841.5	742.7	638.3	527.0	444.0	382.2	333.5	312.1	297.9	288.0
7.5°	884.3	818.2	659.8	493.5	360.5	279.1	221.9	192.2	172.3	164.1	165.2
10°	885.9	792.0	563.4	365.6	243.3	180.4	145.3	131.1	124.5	123.4	123.1
12.5°	889.6	763.3	471.3	271.4	170.2	131.1	117.7	112.9	110.8	110.8	110.0
15°	893.6	731.8	394.8	201.8	131.1	112.7	106.6	104.1	102.8	102.8	102.5
17.5°	893.6	695.3	323.3	156.6	112.9	103.6	98.7	95.5	94.4	94.4	94.2
20°	888.0	653.0	259.9	126.1	102.5	95.0	90.2	86.7	85.4	84.9	84.6
22.5°	868.5	596.6	206.9	108.4	93.9	87.5	81.3	77.4	76.3	75.8	76.0
25°	833.7	532.9	163.8	95.3	86.2	78.4	73.1	70.1	69.0	69.0	69.3
27.5°	797.9	466.3	129.8	85.4	76.8	69.9	65.6	63.7	63.4	64.3	64.5
30°	764.6	399.3	105.2	77.4	68.5	62.7	59.7	59.1	59.1	59.5	59.7
32.5°	727.7	340.7	88.1	70.4	61.8	56.8	55.2	55.2	55.7	55.7	56.2
35°	704.4	290.4	77.4	63.7	56.8	52.5	51.4	51.6	52.5	53.5	54.1
37.5°	691.9	250.3	70.4	58.4	51.9	48.9	47.9	48.4	50.3	52.2	52.5
40°	692.9	220.0	64.8	53.8	48.2	45.0	44.2	45.8	47.6	49.5	49.8
42.5°	704.7	197.6	59.5	48.4	45.0	40.5	40.1	41.7	42.6	44.4	44.7
45°	718.6	181.2	53.8	42.8	39.1	35.1	35.3	36.7	37.8	40.7	41.2
47.5°	722.9	170.0	47.3	36.4	32.1	30.8	31.0	31.9	34.0	36.7	36.9
50°	727.7	163.0	41.2	30.8	27.3	27.0	27.3	27.8	29.2	30.3	29.9
52.5°	748.3	162.7	36.2	26.7	23.3	23.8	24.1	23.8	22.8	21.1	20.6
54°	767.6	163.5	33.7	24.9	21.4	22.2	22.0	20.6	17.9	16.3	15.6
55°	783.1	164.3	32.4	23.5	20.4	20.6	20.9	18.2	14.7	13.1	12.6
57.5°	813.7	162.5	29.2	20.6	17.9	16.8	16.6	12.0	8.0	7.0	6.4
60°	798.4	146.7	26.5	17.7	15.2	13.6	11.3	6.7	4.0	2.9	2.9
62.5°	738.4	124.5	23.5	14.5	12.6	10.4	5.9	3.8	1.9	1.1	0.8
65°	660.5	104.6	21.1	11.5	9.9	6.7	3.2	2.4	0.8	0.0	0.0
67.5°	491.1	77.6	17.9	9.1	7.5	4.3	2.1	1.3	0.3	0.0	0.0
70°	227.5	47.3	15.2	7.0	5.4	3.2	1.6	0.8	0.0	0.0	0.0
72.5°	65.3	29.7	12.6	5.0	3.8	2.7	1.3	0.5	0.3	0.0	0.0
75°	22.8	23.8	9.3	3.8	2.9	1.9	1.1	0.5	0.3	0.0	0.0
77.5°	13.6	19.3	5.9	3.2	2.4	1.6	1.1	0.5	0.3	0.3	0.0
80°	7.7	12.9	3.8	2.7	2.1	1.3	0.8	0.5	0.3	0.3	0.0
82.5°	4.3	6.1	2.9	2.4	1.9	1.3	0.8	0.5	0.3	0.3	0.3
85°	3.4	3.2	2.4	2.1	1.6	1.1	0.8	0.3	0.0	0.0	0.0
87.5°	2.7	2.1	2.1	2.1	1.6	1.1	0.8	0.3	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)