

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: P646751

Luminaire Tested: **GALN-SA1C-835-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1C-835-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4361.3 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

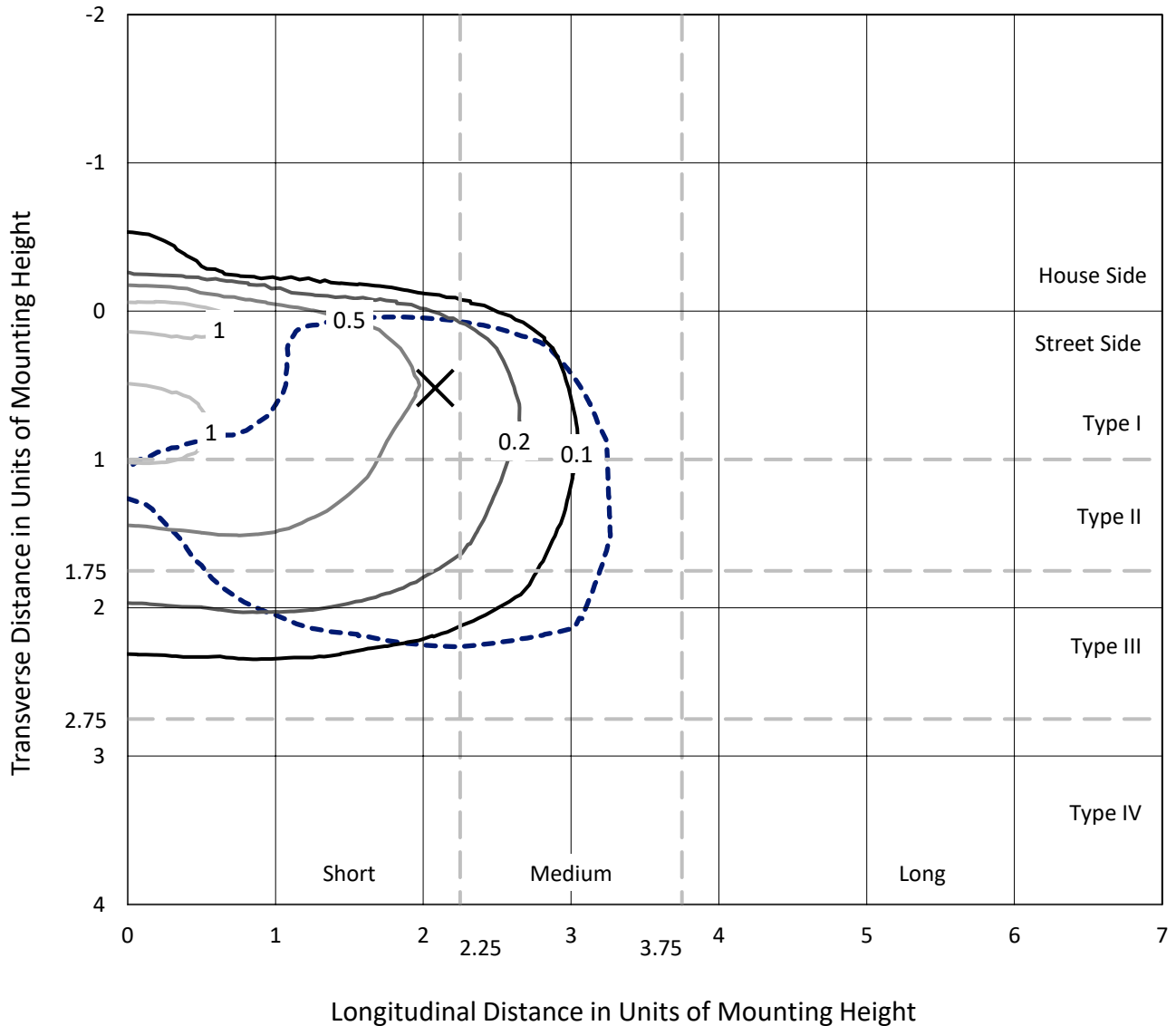
Input Watts (W): 57
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

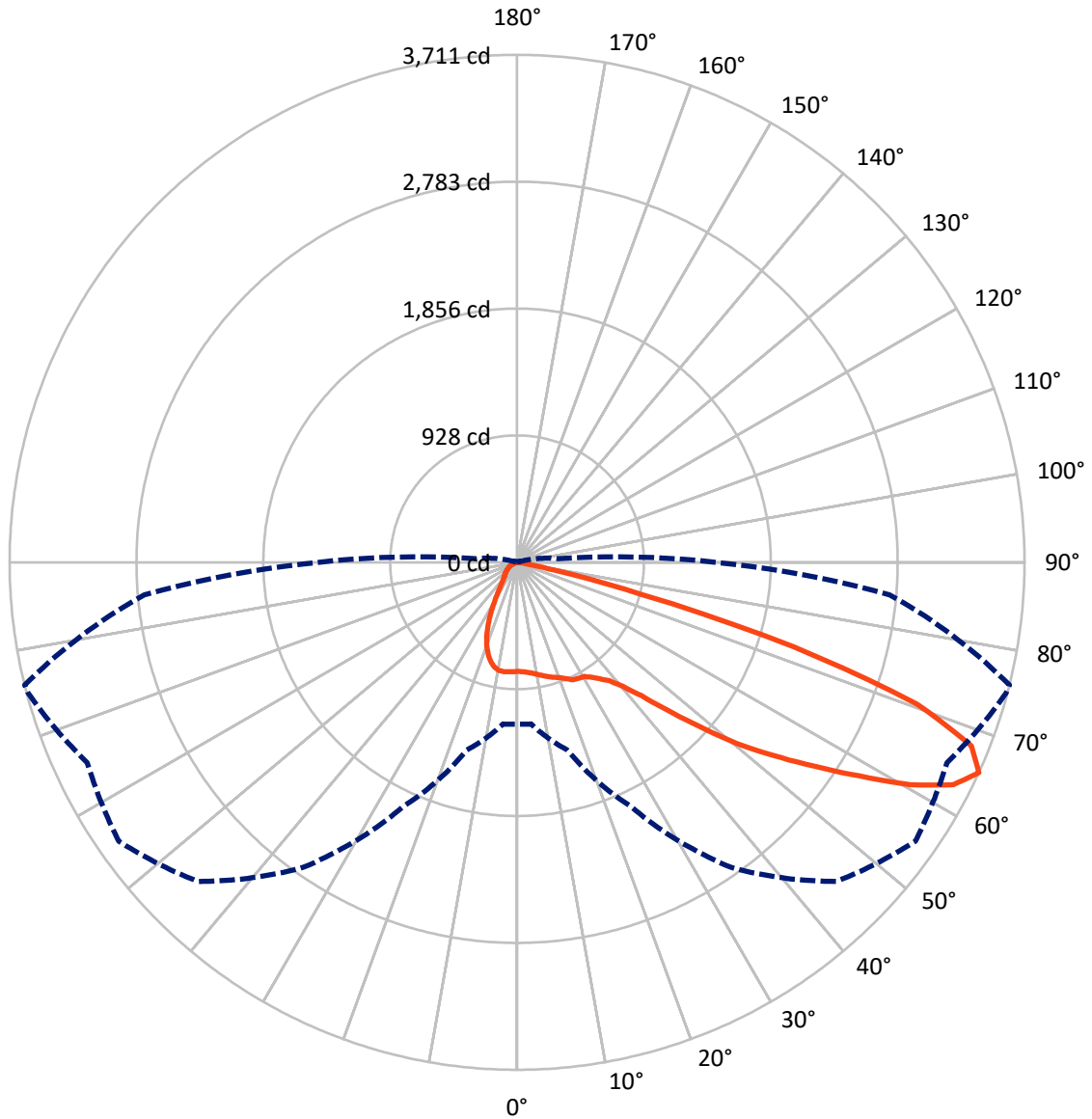
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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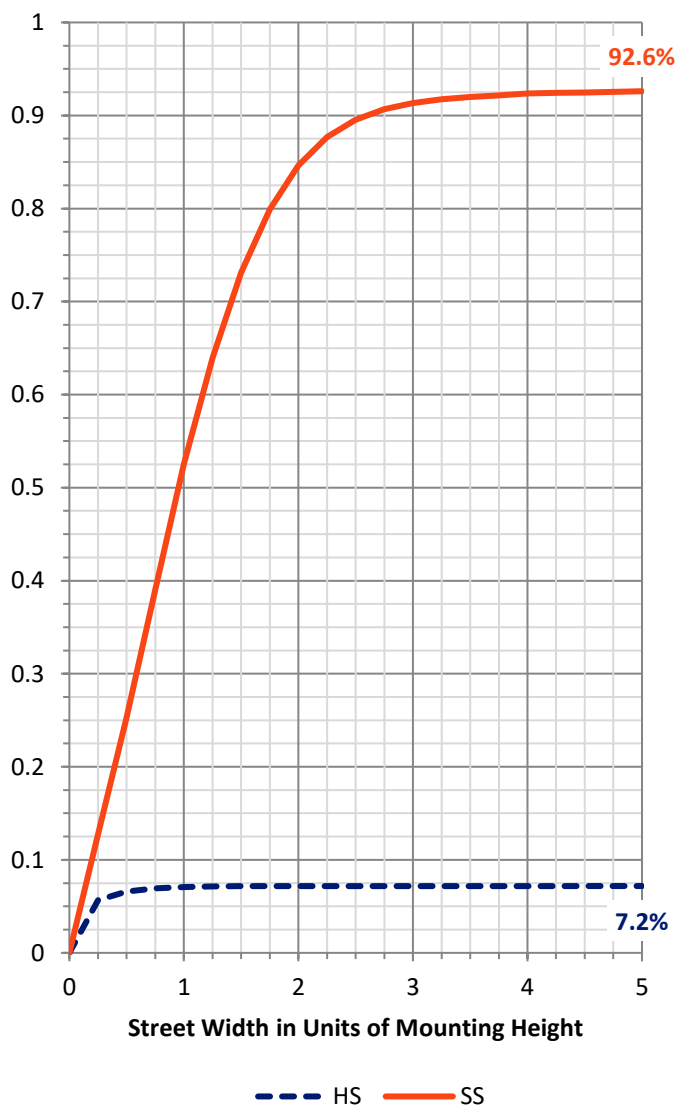
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	315.0	0.0	315.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	4046.3	0.0	4046.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	4361.3	0.0	4361.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.7	1.5
10°-20°	146.3	3.4
20°-30°	235.8	5.4
30°-40°	410.0	9.4
40°-50°	677.5	15.5
50°-60°	1046.6	24.0
60°-70°	1278.1	29.3
70°-80°	485.1	11.1
80°-90°	16.2	0.4
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°	4361.3	100.0
0°-180°	4361.3	100.0

Coefficient of Utilization



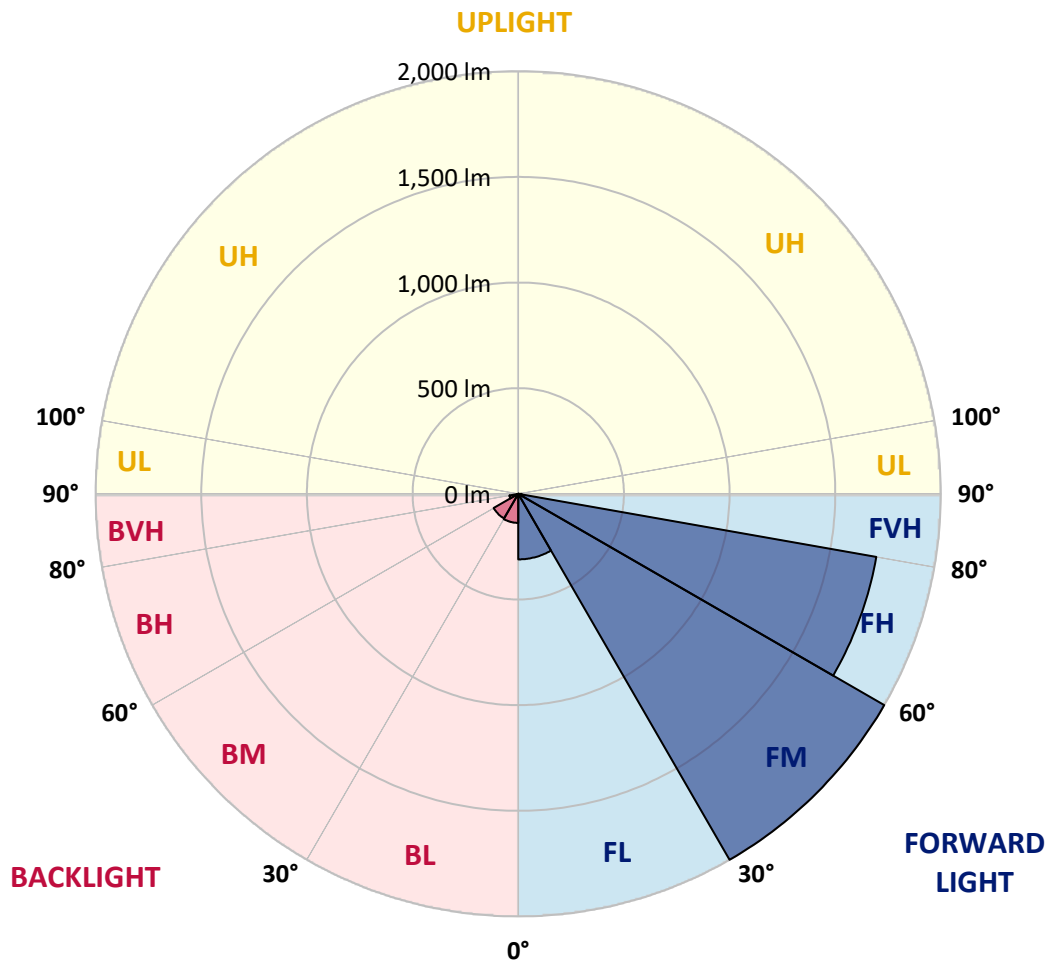
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.3	7.1			
FM (30°-60°)	1999.7	45.9			
FH (60°-80°)	1720.4	39.4			G1/1800
FVH (80°-90°)	16.0	0.4			G1/100
BL (0°-30°)	137.6	3.2	B1/500		
BM (30°-60°)	134.4	3.1	B0/220		
BH (60°-80°)	42.7	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	762.4	762.7	764.6	769.2	776.3	782.1	787.1	795.1	800.6	801.2	803.0
5°	709.8	706.0	709.8	721.8	732.6	748.9	768.9	788.9	806.7	808.0	816.6
7.5°	650.7	653.7	659.6	671.9	692.2	717.1	746.1	781.8	815.7	818.8	835.7
10°	590.6	597.4	606.9	625.7	654.0	686.4	725.8	776.9	829.8	834.1	863.4
12.5°	535.2	538.2	550.0	575.2	610.3	655.8	710.3	774.1	845.6	850.8	892.9
15°	492.7	496.7	506.8	529.6	568.7	627.3	697.7	773.2	860.9	868.3	922.5
17.5°	484.7	487.1	491.4	506.8	541.1	604.5	686.4	772.9	875.7	884.6	949.9
20°	517.6	515.4	511.1	509.6	528.4	586.9	678.1	775.3	889.9	900.1	978.9
22.5°	600.2	602.9	577.7	547.8	541.6	584.1	676.8	787.1	912.4	924.4	1011.2
25°	775.3	754.1	714.7	643.2	589.4	601.0	690.7	814.8	938.5	951.8	1040.5
27.5°	969.0	962.5	901.3	783.6	683.2	636.8	715.3	836.0	947.2	960.7	1057.1
30°	1159.3	1167.0	1096.8	966.8	819.7	703.0	738.4	844.0	954.9	969.0	1078.3
32.5°	1335.8	1345.0	1283.4	1154.7	980.4	817.5	778.1	875.1	987.2	1001.7	1113.7
35°	1474.6	1475.9	1429.4	1326.8	1155.9	956.7	864.0	929.6	1030.9	1047.9	1151.3
37.5°	1602.1	1600.3	1545.8	1457.4	1302.2	1094.9	972.1	992.5	1080.8	1098.4	1205.5
40°	1696.7	1697.9	1680.3	1597.2	1438.6	1222.7	1057.7	1051.3	1164.6	1192.0	1284.4
42.5°	1759.8	1771.1	1779.8	1737.6	1610.1	1380.1	1189.2	1177.2	1309.9	1332.7	1395.8
45°	1810.8	1831.2	1874.3	1872.2	1774.8	1573.2	1369.6	1345.0	1515.9	1540.2	1537.7
47.5°	1848.1	1868.8	1940.2	1983.3	1929.7	1760.4	1596.5	1575.3	1761.9	1788.4	1694.5
50°	1867.2	1891.9	1983.0	2066.5	2050.8	1940.8	1855.2	1856.5	2059.1	2084.7	1876.1
52.5°	1822.6	1854.6	2005.8	2156.1	2186.5	2113.6	2097.6	2138.2	2323.6	2345.4	2040.3
55°	1680.0	1720.3	1974.7	2232.4	2343.9	2317.4	2372.8	2434.7	2612.7	2626.9	2208.7
57.5°	1589.8	1632.6	1883.0	2297.4	2532.9	2573.6	2661.3	2706.6	2911.1	2947.1	2402.1
60°	1513.8	1547.3	1807.5	2311.3	2725.1	2887.1	2972.3	3019.2	3279.4	3302.8	2614.8
62.5°	1387.2	1425.7	1680.0	2214.6	2821.8	3138.0	3314.8	3293.8	3564.2	3580.5	2745.4
65°	1183.7	1187.0	1421.4	1971.6	2722.0	3300.9	3555.3	3467.5	3700.3	3711.3	2735.3
67.5°	883.5	916.0	1093.5	1549.8	2299.3	3161.8	3633.1	3472.1	3614.4	3583.6	2518.2
70°	569.0	594.0	741.2	1074.7	1657.8	2638.6	3374.8	3234.1	3172.2	3103.8	2061.2
72.5°	262.6	294.6	440.4	614.0	983.2	1879.5	2739.6	2627.5	2283.2	2114.5	1310.2
75°	114.6	122.5	217.4	323.9	461.0	993.9	1806.2	1631.1	1031.2	941.9	524.4
77.5°	69.9	75.2	113.9	173.7	181.0	378.7	973.0	711.6	318.7	281.1	142.3
80°	47.4	53.2	82.8	90.8	61.9	105.6	365.2	190.0	64.4	61.6	30.5
82.5°	23.1	29.3	61.3	50.8	26.8	33.9	106.3	40.6	18.8	17.5	10.8
85°	3.4	5.9	34.5	33.3	12.0	8.0	18.8	10.2	6.5	6.2	4.9
87.5°	0.0	0.0	11.7	5.2	1.3	1.3	2.2	2.2	2.4	2.2	2.4
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°	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8	797.8
2.5°	804.0	805.6	799.7	791.4	782.5	773.5	760.8	749.5	742.7	746.7	736.9
5°	818.5	817.2	801.8	776.6	743.0	702.7	662.7	628.4	617.4	600.7	598.9
7.5°	838.4	835.1	802.4	744.6	668.8	593.0	519.1	470.2	442.2	418.4	419.1
10°	866.5	856.6	795.4	688.2	563.5	449.3	355.0	290.3	262.4	253.5	246.3
12.5°	895.4	876.3	775.6	612.1	438.8	307.0	215.9	176.4	159.2	153.6	153.0
15°	921.3	891.1	741.2	520.7	319.0	196.1	147.2	134.3	132.1	132.4	132.1
17.5°	946.9	902.8	693.4	423.7	216.8	140.7	126.5	123.5	124.4	125.6	125.4
20°	968.1	905.3	632.5	323.3	153.3	123.5	118.9	118.2	119.2	120.1	120.1
22.5°	991.2	907.1	560.1	223.9	125.4	114.9	112.4	112.4	113.6	114.9	115.2
25°	1008.4	897.0	473.6	160.7	110.6	106.6	105.3	105.6	106.9	107.4	107.2
27.5°	1011.2	868.3	381.8	123.2	100.4	96.4	95.1	96.4	94.8	95.8	95.1
30°	1013.7	832.0	288.8	103.7	91.1	85.0	83.2	81.3	80.0	78.5	78.2
32.5°	1021.3	789.2	210.9	93.3	82.5	75.7	71.4	66.2	62.2	61.0	60.7
35°	1024.8	737.7	154.9	85.0	74.9	67.4	59.7	52.4	46.5	44.3	45.9
37.5°	1037.7	687.9	120.1	78.8	68.0	58.8	48.9	39.7	34.2	33.0	33.6
40°	1064.2	633.7	100.7	73.6	62.2	50.8	38.8	29.8	26.2	25.0	24.7
42.5°	1106.7	579.8	89.6	68.7	56.4	42.8	30.5	23.4	20.4	19.4	19.4
45°	1158.4	528.1	81.9	63.4	50.2	34.5	24.0	18.8	16.9	16.3	16.3
47.5°	1226.4	482.8	75.4	58.2	43.4	27.4	19.4	16.3	15.1	15.4	15.7
50°	1295.4	449.3	68.4	52.4	35.7	22.5	16.6	14.5	14.2	14.5	14.5
52.5°	1347.5	429.6	58.8	44.3	28.0	18.8	14.8	13.5	13.2	12.6	12.6
55°	1417.7	425.2	46.8	36.0	22.2	15.7	13.2	12.3	11.4	10.8	10.5
57.5°	1507.9	430.2	36.0	28.0	17.2	12.9	11.7	10.2	8.9	7.7	7.7
60°	1564.0	419.1	28.0	21.5	12.6	10.5	8.9	7.4	5.9	4.9	4.6
62.5°	1546.0	372.2	22.2	16.0	8.9	7.7	5.9	4.9	3.4	2.4	2.2
65°	1454.0	300.5	17.9	11.1	6.5	4.6	3.1	3.1	1.6	0.3	0.0
67.5°	1272.6	222.6	14.2	7.4	3.7	2.2	1.6	0.9	0.0	0.0	0.0
70°	1035.8	160.7	11.1	4.6	2.2	1.6	0.6	0.3	0.0	0.0	0.0
72.5°	657.7	92.1	8.6	2.7	1.6	0.6	0.0	0.0	0.0	0.0	0.0
75°	254.3	36.0	5.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	72.0	16.9	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.8	7.4	1.9	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.9	3.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.2	1.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	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)