

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: P648228

Luminaire Tested: **GALN-SA1B-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1B-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3609.6 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

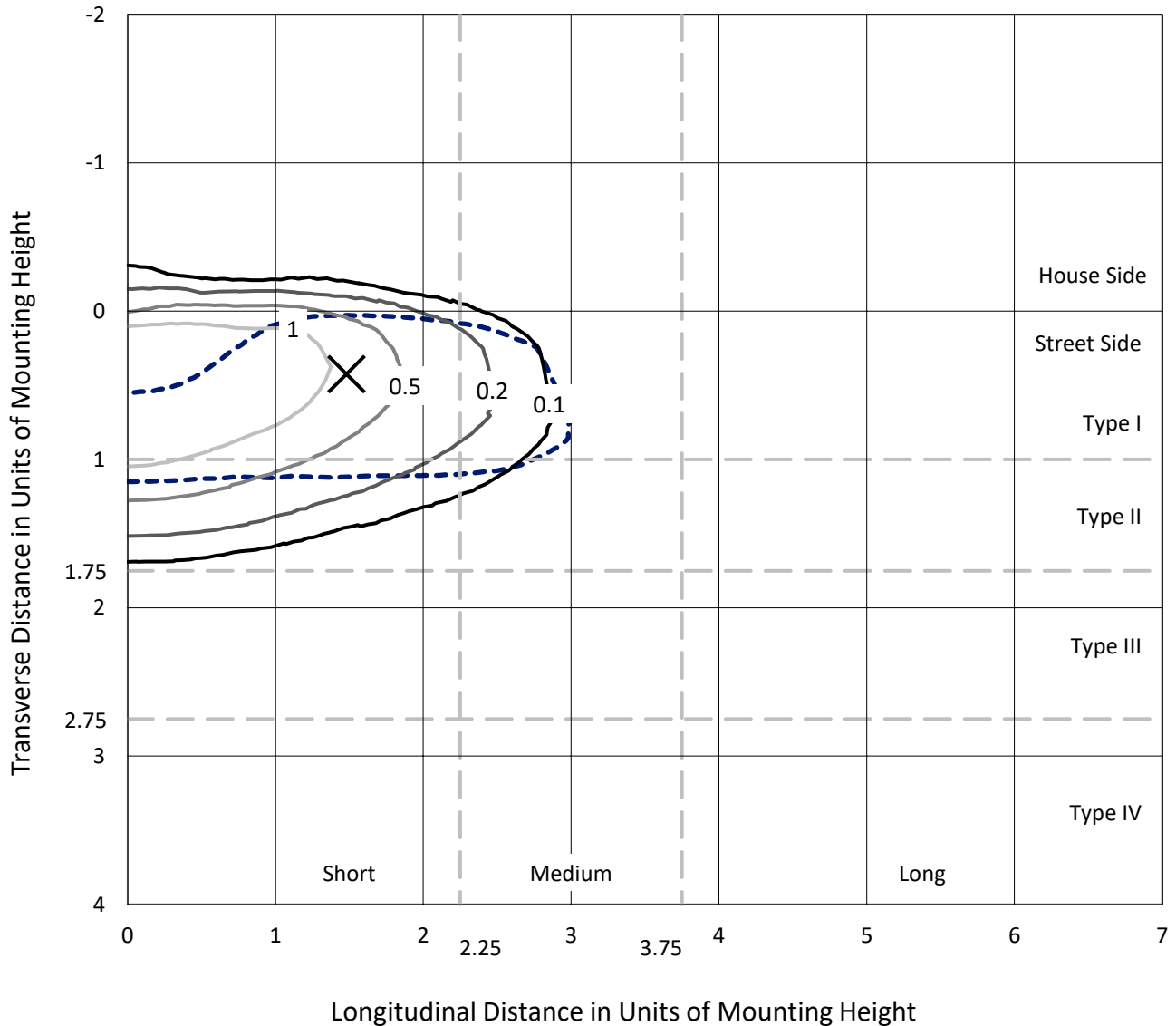
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

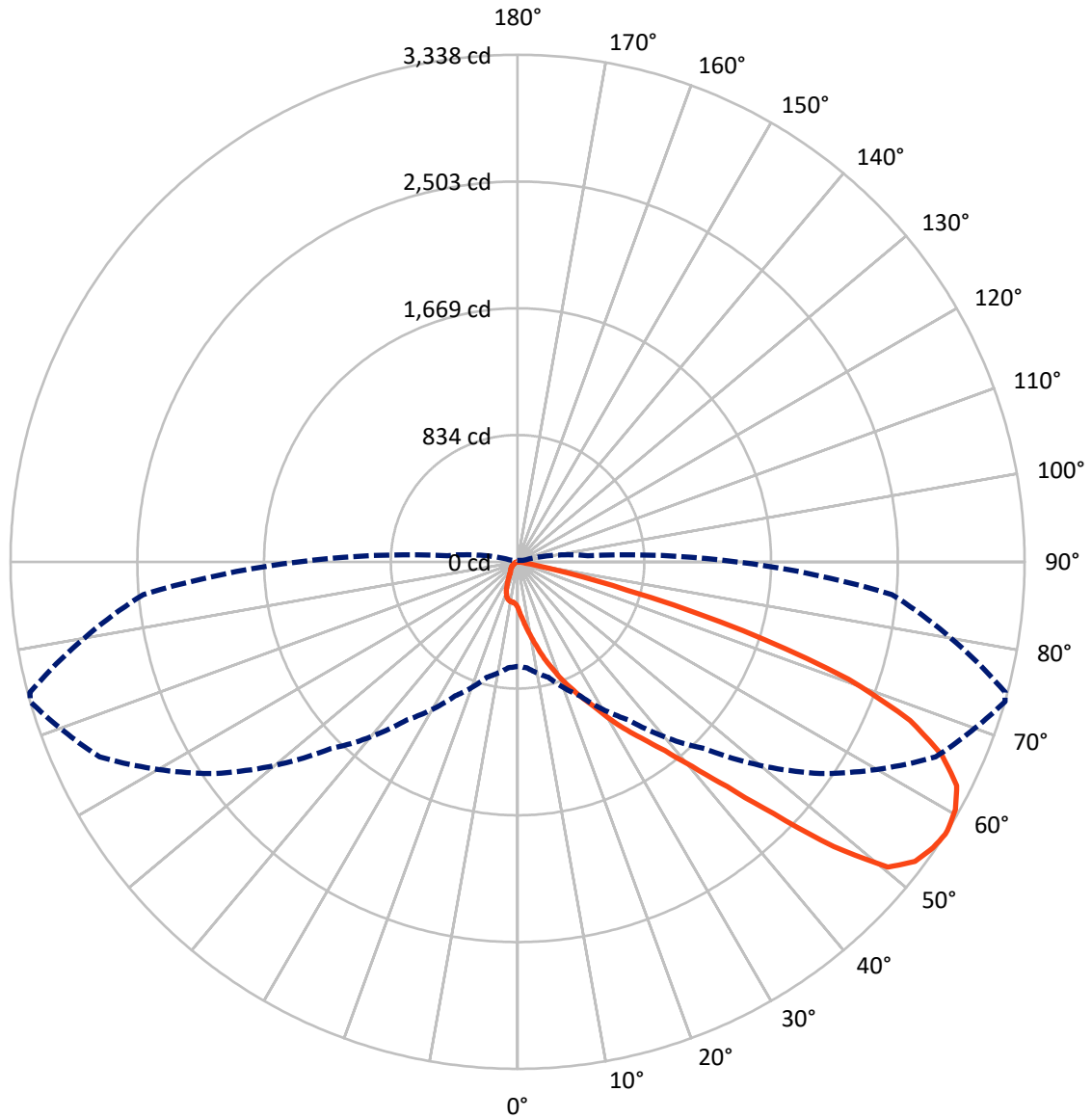
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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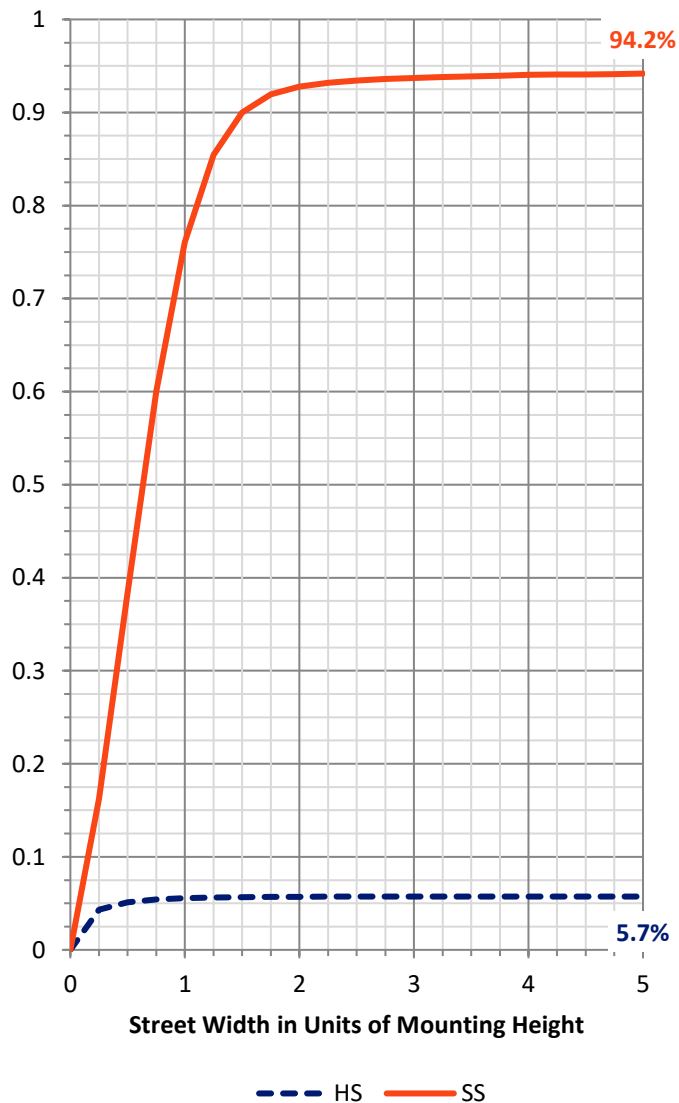
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	208.2	0.0	208.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	3401.4	0.0	3401.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	3609.6	0.0	3609.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.5	1.0
10°-20°	143.8	4.0
20°-30°	307.7	8.5
30°-40°	565.6	15.7
40°-50°	867.1	24.0
50°-60°	917.3	25.4
60°-70°	599.0	16.6
70°-80°	163.7	4.5
80°-90°	8.8	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°	3609.6	100.0
0°-180°	3609.6	100.0

Coefficient of Utilization

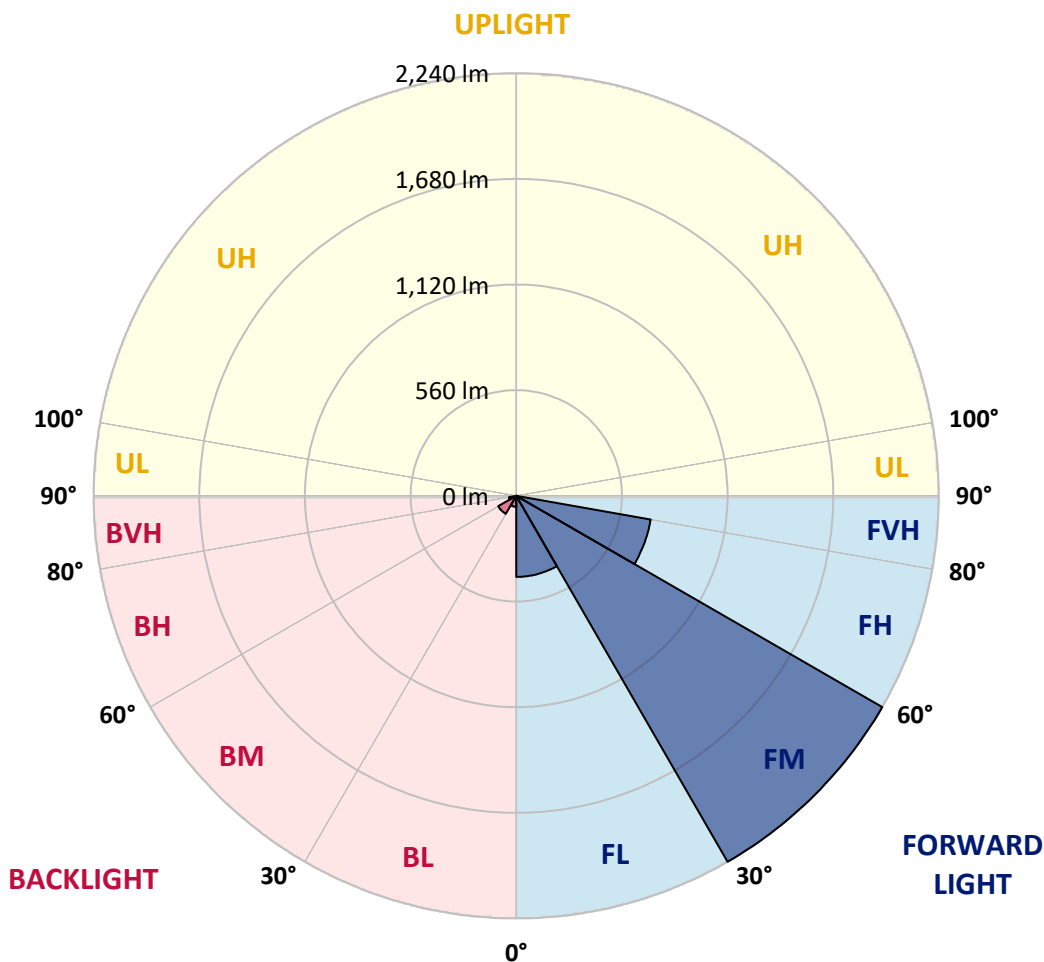


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.9	11.9			
FM (30°-60°)	2239.8	62.1			
FH (60°-80°)	723.6	20.0			G1/1800
FVH (80°-90°)	8.1	0.2			G0/10
BL (0°-30°)	58.2	1.6	B0/110		
BM (30°-60°)	110.2	3.1	B0/220		
BH (60°-80°)	39.1	1.1	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3
2.5°	442.4	438.4	430.4	427.7	415.9	397.8	381.8	360.3	343.4	341.7	321.3
5°	592.4	583.4	579.7	561.7	533.6	507.1	461.8	427.4	387.8	384.8	343.7
7.5°	737.0	724.5	720.8	703.8	670.9	629.3	570.5	507.9	445.1	439.3	373.8
10°	841.6	843.4	836.6	825.4	798.7	756.4	683.9	598.4	508.9	501.7	407.7
12.5°	916.7	916.3	917.6	917.4	903.2	871.0	794.7	696.3	579.2	565.0	446.6
15°	965.4	966.2	970.0	982.9	984.4	964.5	900.9	790.0	660.7	643.0	488.7
17.5°	1014.8	1020.0	1026.0	1038.3	1049.2	1041.2	996.4	887.7	734.5	721.2	533.8
20°	1096.3	1103.6	1100.0	1107.6	1113.3	1114.0	1079.4	978.0	824.0	801.7	585.4
22.5°	1226.6	1226.4	1217.4	1203.9	1192.7	1192.3	1160.9	1070.7	905.1	883.7	637.3
25°	1391.4	1392.1	1374.7	1336.3	1308.4	1274.3	1238.1	1151.9	992.1	965.8	691.9
27.5°	1580.3	1575.6	1549.2	1496.3	1441.0	1382.7	1330.6	1246.4	1084.4	1062.5	754.4
30°	1750.0	1748.3	1717.4	1652.8	1580.0	1521.4	1446.0	1364.7	1203.7	1176.8	824.4
32.5°	1908.0	1910.5	1867.6	1800.8	1730.6	1663.0	1583.3	1477.8	1320.8	1282.7	900.7
35°	2031.4	2033.8	1989.5	1933.9	1861.7	1805.6	1729.6	1598.5	1436.5	1404.3	988.4
37.5°	2097.2	2100.4	2074.7	2032.9	1987.8	1959.6	1888.8	1753.8	1577.0	1557.6	1092.1
40°	2109.6	2113.4	2102.1	2090.9	2088.4	2108.6	2087.9	1936.7	1771.9	1741.5	1246.6
42.5°	2072.3	2077.2	2082.2	2107.1	2157.9	2232.0	2304.1	2184.9	2022.9	1982.0	1435.5
45°	1974.0	1973.6	1993.3	2057.8	2171.7	2329.7	2529.8	2495.7	2364.8	2316.3	1702.4
47.5°	1806.1	1803.6	1846.2	1938.2	2115.6	2347.7	2714.0	2873.0	2801.2	2756.3	1989.3
50°	1550.1	1562.3	1629.4	1757.8	1976.3	2293.3	2770.8	3120.5	3159.3	3111.7	2221.1
52.5°	1250.3	1249.8	1355.0	1529.2	1770.0	2173.7	2731.2	3165.4	3275.8	3239.3	2335.1
55°	925.3	931.8	1041.2	1216.9	1502.0	1955.4	2601.8	3119.2	3320.1	3294.4	2410.5
57°	688.3	699.8	787.5	973.4	1268.8	1739.3	2429.6	3036.7	3337.5	3323.6	2473.0
57.5°	642.5	643.0	728.5	897.4	1200.5	1656.3	2380.3	3002.3	3337.1	3329.3	2483.2
60°	395.5	407.9	467.1	606.6	878.8	1292.7	2049.6	2804.7	3311.2	3322.3	2526.8
62.5°	236.8	242.0	280.4	365.6	566.5	943.5	1677.3	2551.7	3243.6	3277.7	2523.8
65°	152.3	153.5	170.9	221.3	354.2	637.8	1292.4	2217.5	3068.9	3131.7	2425.1
67.5°	117.6	119.6	126.6	145.3	205.4	397.2	914.2	1860.9	2786.2	2867.3	2185.9
70°	104.5	105.4	107.9	113.9	135.9	224.3	568.7	1453.7	2310.5	2333.4	1710.6
72.5°	85.3	88.0	95.7	97.7	107.7	140.1	316.5	975.7	1552.4	1558.1	957.0
75°	66.0	66.6	78.0	83.7	90.7	96.5	141.3	492.0	745.7	705.8	368.9
77.5°	49.3	51.6	56.8	64.0	74.0	69.1	63.3	185.4	231.5	227.3	107.2
80°	31.6	32.9	39.6	48.1	57.6	45.1	35.6	54.3	50.8	52.3	25.7
82.5°	16.0	16.2	25.4	39.2	36.6	22.7	22.4	22.2	18.9	18.7	12.0
85°	1.7	3.8	16.4	22.4	16.4	7.4	10.5	10.2	9.9	10.2	7.0
87.5°	0.2	0.2	2.7	3.2	2.3	2.5	3.0	3.2	4.0	3.8	3.0
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°	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3	302.3
2.5°	311.2	301.3	282.9	265.2	252.0	243.5	232.6	228.6	222.8	222.1	219.3
5°	324.7	305.8	273.7	248.2	227.8	212.3	198.9	187.7	178.7	176.7	177.7
7.5°	343.9	315.8	270.9	236.2	207.9	181.4	160.0	146.8	137.3	133.8	134.4
10°	365.6	328.9	270.4	223.5	180.2	147.8	124.3	112.7	107.2	105.2	103.0
12.5°	391.3	344.2	269.1	203.9	149.8	117.8	101.2	94.2	88.9	87.5	87.5
15°	420.2	360.3	263.2	179.5	121.6	97.5	86.2	80.7	79.0	77.5	77.5
17.5°	450.3	376.3	250.7	149.3	100.9	83.5	76.5	73.3	70.8	69.1	69.1
20°	484.8	392.0	230.8	122.6	85.3	74.5	69.1	65.3	63.3	61.8	61.3
22.5°	517.4	404.7	205.4	100.7	74.2	67.0	62.1	58.1	56.1	55.4	55.4
25°	551.2	412.5	174.7	83.2	67.8	60.8	55.4	52.1	50.3	49.9	49.6
27.5°	584.2	416.9	147.8	72.7	61.8	55.0	49.9	47.4	45.6	45.1	45.3
30°	624.1	417.7	121.6	65.3	56.6	49.6	44.9	42.6	41.7	41.1	40.9
32.5°	664.5	416.7	102.2	60.8	51.6	44.9	40.9	39.2	38.4	37.7	37.7
35°	709.8	411.5	87.0	56.3	46.8	40.9	37.3	35.9	34.9	34.1	33.9
37.5°	766.1	408.7	78.2	51.4	42.6	37.1	33.9	32.4	31.6	30.6	30.4
40°	854.8	420.9	75.5	46.8	38.4	33.7	30.6	28.9	27.9	26.9	26.7
42.5°	965.4	442.4	71.0	42.4	34.6	30.4	27.4	25.4	23.6	22.4	21.9
45°	1108.8	470.5	64.0	37.7	31.4	26.9	24.2	21.7	19.4	18.5	18.2
47.5°	1259.1	497.7	57.8	33.9	27.9	24.0	20.9	18.2	16.2	15.4	15.2
50°	1351.2	503.2	53.8	29.7	24.4	20.7	17.7	15.2	13.9	13.2	13.2
52.5°	1393.3	494.5	48.3	25.9	21.2	18.2	15.2	13.2	12.4	12.0	11.7
55°	1422.8	481.0	41.1	22.4	18.2	15.4	13.5	12.0	11.0	10.5	10.2
57°	1440.0	462.8	35.6	19.7	15.7	13.5	12.0	10.7	9.7	8.7	8.7
57.5°	1440.7	455.8	34.1	19.4	15.0	13.0	11.7	10.5	9.2	8.2	8.0
60°	1418.6	407.9	27.4	16.4	12.0	11.0	9.7	8.2	6.5	5.5	5.2
62.5°	1347.3	347.2	22.7	13.9	9.7	8.5	7.0	6.3	4.5	3.2	3.2
65°	1239.3	281.6	19.4	11.2	8.0	6.3	4.7	4.5	2.7	1.5	1.3
67.5°	1083.4	219.3	16.4	9.2	6.7	4.5	3.2	3.0	1.5	0.5	0.0
70°	825.4	149.6	13.7	7.4	5.0	3.2	2.3	1.7	1.0	0.2	0.0
72.5°	475.8	82.2	11.4	5.7	3.8	2.5	1.7	1.0	1.0	0.0	0.0
75°	170.0	35.4	8.7	4.2	3.0	2.0	1.3	0.5	0.8	0.2	0.0
77.5°	54.1	18.9	5.7	3.2	2.5	1.5	1.0	0.5	0.5	0.2	0.0
80°	16.0	9.9	3.5	2.7	1.7	1.3	0.8	0.2	0.5	0.2	0.0
82.5°	8.7	5.0	2.7	2.0	1.7	1.0	0.8	0.2	0.2	0.2	0.0
85°	4.5	3.0	2.3	2.0	1.7	1.0	0.8	0.2	0.0	0.2	0.2
87.5°	2.5	2.3	2.3	2.0	1.7	1.3	0.8	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)