

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: P191829

Luminaire Tested: **GLEON-AF-01-LED-E1-SL2-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-SL2-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3401 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

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: 25 FT

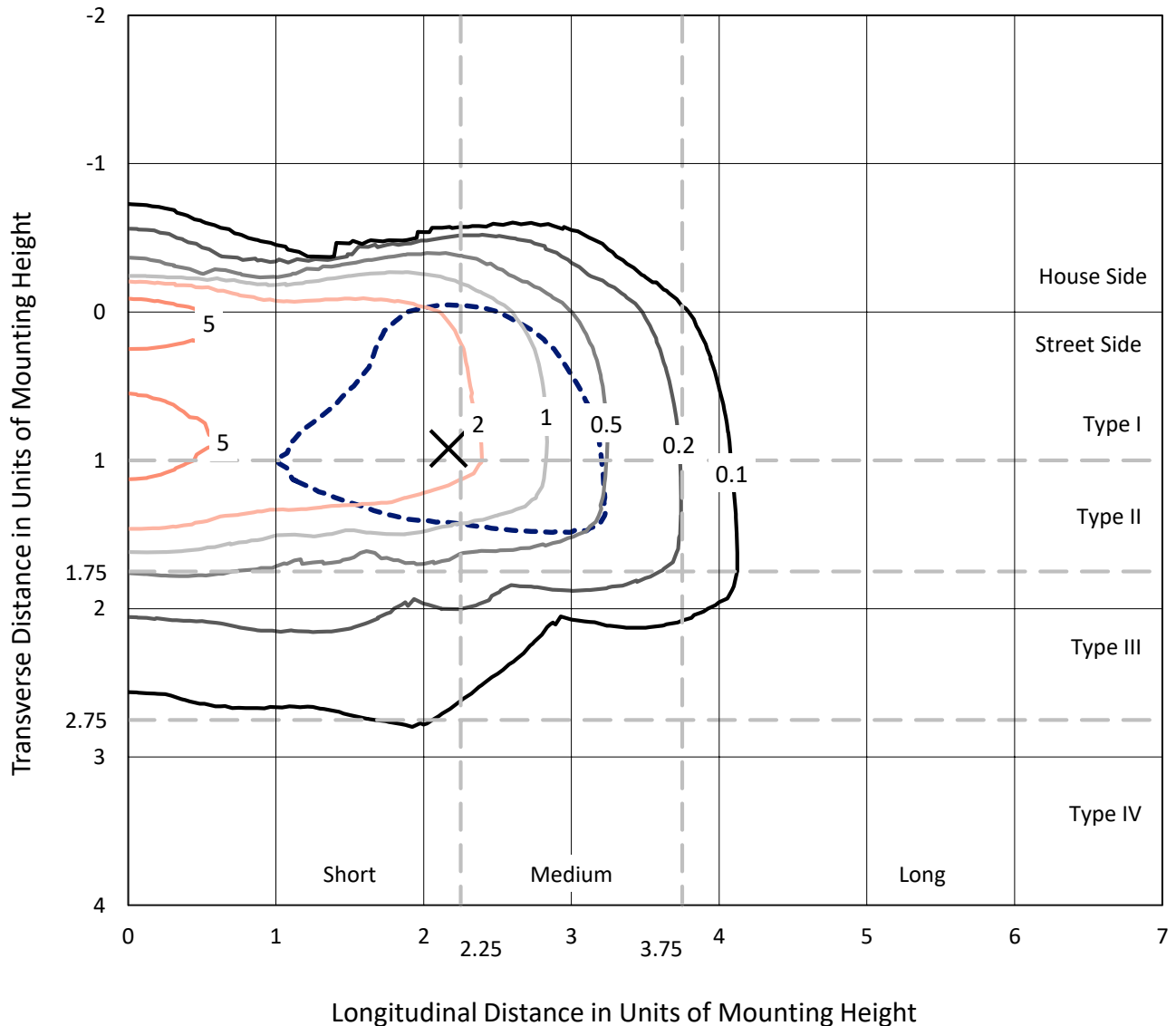


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

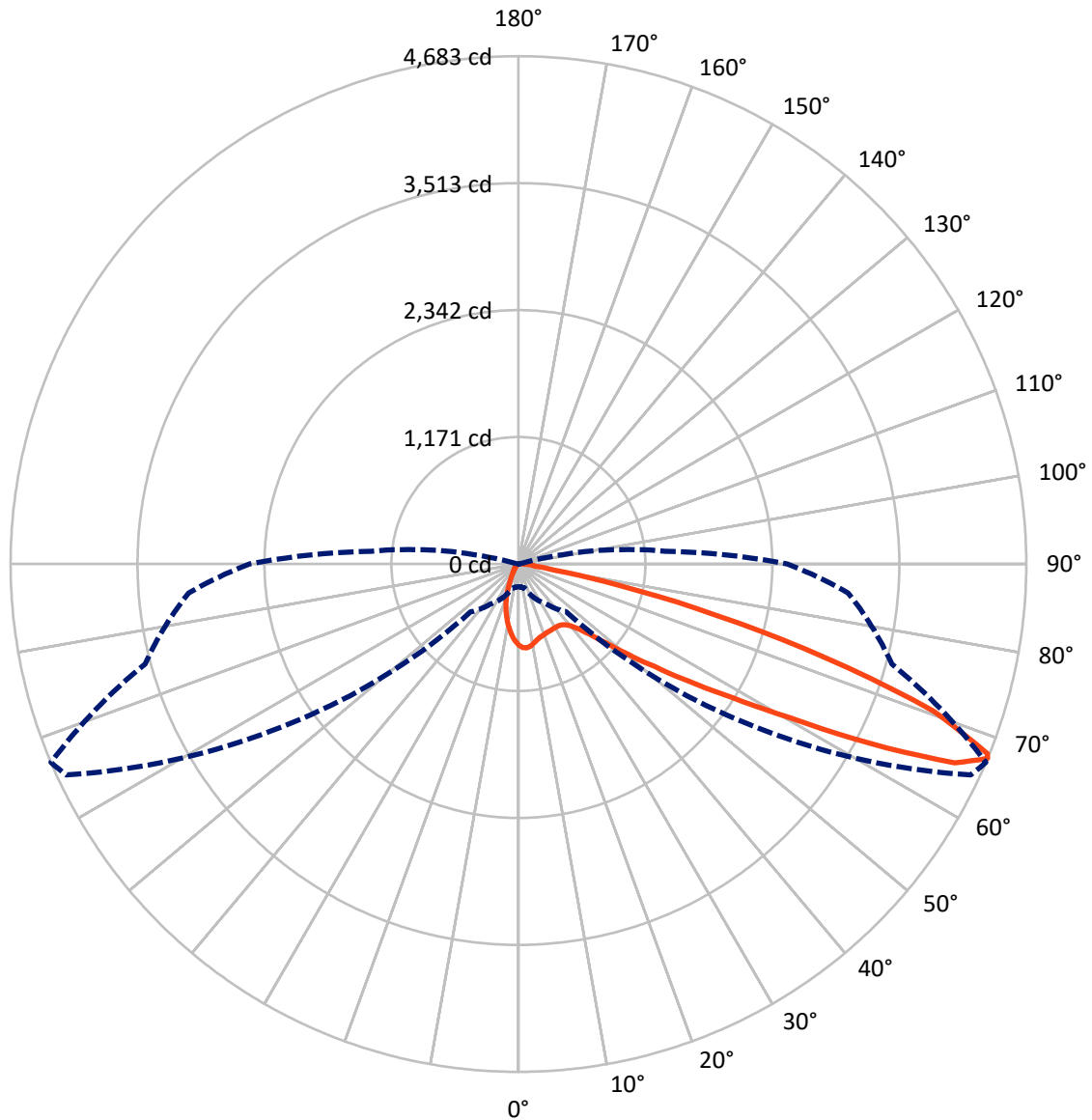


Based on 10 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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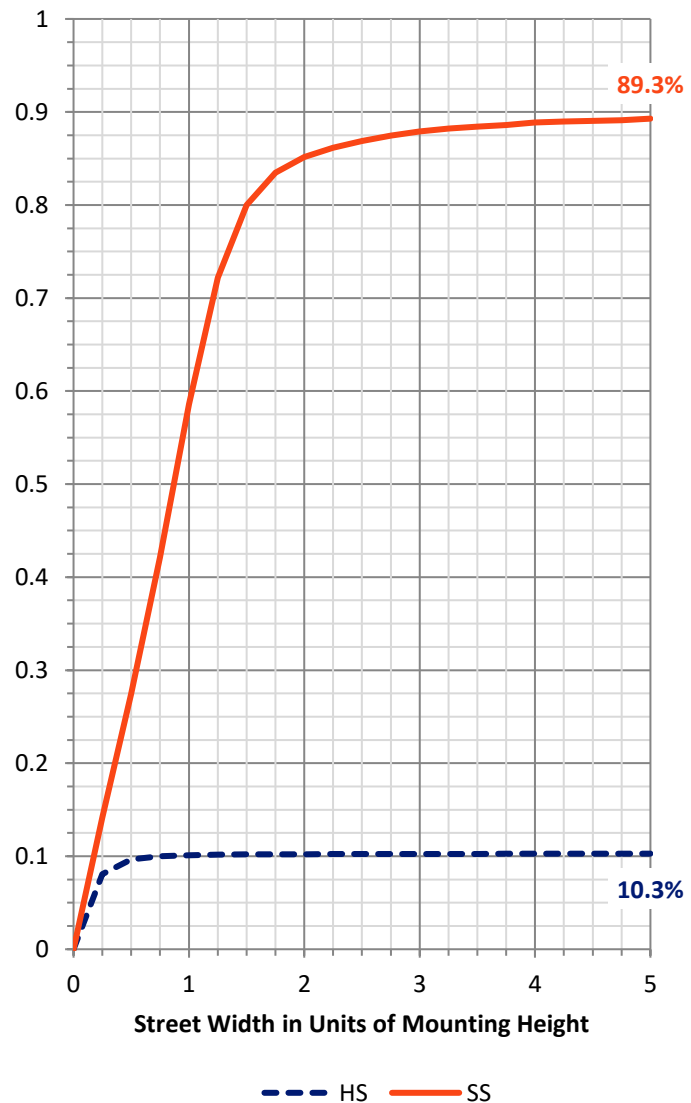
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	353.1	0.0	353.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3047.9	0.0	3047.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	3401.0	0.0	3401.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	1.8
10°-20°	129.9	3.8
20°-30°	188.9	5.6
30°-40°	294.6	8.7
40°-50°	521.9	15.3
50°-60°	825.9	24.3
60°-70°	945.9	27.8
70°-80°	392.4	11.5
80°-90°	40.5	1.2
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°	3401.0	100.0
0°-180°	3401.0	100.0



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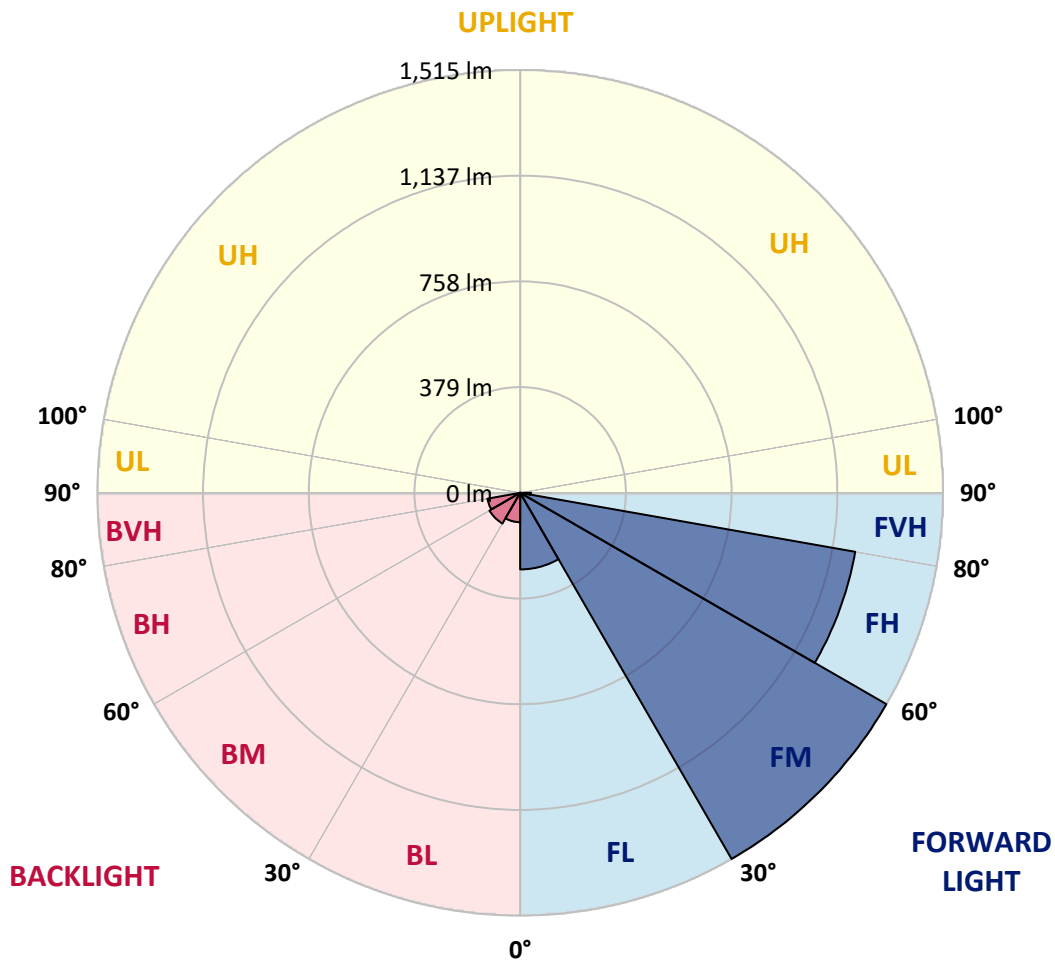
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	274.4	8.1			
FM (30°-60°)	1515.5	44.6			
FH (60°-80°)	1219.3	35.9			G1/1800
FVH (80°-90°)	38.7	1.1			G1/100
BL (0°-30°)	105.4	3.1	B0/110		
BM (30°-60°)	126.9	3.7	B0/220		
BH (60°-80°)	119.0	3.5	B1/500		G1/500
BVH (80°-90°)	1.8	0.1			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0
2.5°	775.4	777.0	776.8	778.0	780.8	781.0	778.2	772.9	771.7	764.7	752.6
5°	715.1	719.7	722.5	733.8	746.5	761.8	773.3	777.4	776.8	771.9	753.6
7.5°	646.3	650.9	654.0	667.3	684.2	710.4	740.3	764.9	767.1	772.5	752.8
10°	600.5	601.3	605.6	618.3	636.0	662.8	698.5	741.5	748.1	767.7	750.8
12.5°	562.8	563.4	569.1	582.8	601.7	628.6	666.1	715.9	726.0	761.8	750.4
15°	536.0	538.2	543.3	557.6	577.7	604.4	642.9	697.1	709.2	759.6	754.0
17.5°	527.1	529.5	531.0	541.4	559.6	585.8	625.3	684.8	698.5	760.8	761.0
20°	536.4	538.2	534.6	537.2	548.5	571.9	610.4	674.3	690.5	762.1	769.9
22.5°	571.1	571.9	562.2	550.9	548.9	561.8	598.7	665.9	683.4	765.9	780.4
25°	630.6	629.2	613.4	589.0	566.0	560.0	591.7	660.8	679.8	769.9	791.3
27.5°	702.4	704.4	682.6	647.1	603.3	571.9	590.8	658.6	678.2	772.7	800.8
30°	789.7	792.5	767.5	722.9	660.0	601.3	599.9	658.2	677.2	770.9	801.6
32.5°	878.8	882.2	862.5	816.5	735.8	650.5	620.5	662.6	679.2	764.7	797.1
35°	972.0	976.8	963.7	924.2	838.5	721.5	656.8	675.9	688.6	764.1	792.5
37.5°	1100.8	1105.1	1080.5	1038.7	962.9	816.7	715.1	700.8	710.6	773.7	793.7
40°	1293.0	1292.4	1228.9	1164.8	1099.6	937.7	797.1	746.1	751.0	802.4	808.4
42.5°	1502.5	1501.5	1407.7	1310.2	1251.3	1086.7	904.8	824.2	820.9	855.4	846.5
45°	1663.9	1663.7	1587.2	1477.5	1434.0	1257.7	1044.0	932.9	927.8	941.5	916.7
47.5°	1732.8	1734.0	1695.5	1618.3	1636.6	1489.0	1219.6	1090.5	1082.7	1077.2	1039.5
50°	1679.2	1681.6	1684.8	1669.7	1785.2	1799.8	1455.1	1312.4	1308.7	1283.9	1224.9
52.5°	1504.3	1516.4	1553.7	1601.5	1836.7	2098.2	1824.2	1588.2	1567.9	1541.6	1476.7
55°	1209.5	1222.8	1293.6	1409.6	1760.0	2294.2	2341.6	1943.7	1909.9	1831.2	1737.5
57.5°	800.4	821.1	923.8	1071.4	1537.0	2325.7	2857.8	2437.0	2319.6	2103.9	1998.4
60°	441.0	460.8	572.3	706.0	1110.1	2169.8	3204.9	3079.3	2871.8	2408.8	2315.2
62.5°	271.6	282.3	364.6	489.0	665.7	1712.5	3276.7	3886.5	3646.3	2801.4	2697.9
65°	216.2	220.8	261.1	399.7	477.3	1018.6	3044.8	4501.9	4421.7	3276.7	3040.5
67°	209.9	211.7	230.7	343.2	449.9	624.5	2550.9	4602.0	4683.4	3564.4	3051.2
67.5°	211.3	213.3	231.3	327.5	449.1	573.9	2380.7	4562.6	4665.3	3587.2	3003.8
70°	203.7	209.9	264.8	327.3	427.1	476.9	1425.7	3953.2	4060.1	3333.1	2548.7
72.5°	72.2	72.6	114.5	264.8	464.4	482.0	715.9	2898.0	2977.2	2549.7	1837.5
75°	42.8	36.5	38.1	75.4	443.8	468.2	413.0	1851.8	1881.4	1461.0	930.6
77.5°	29.6	25.8	26.6	33.3	169.0	461.6	328.1	965.7	934.1	512.4	198.2
80°	16.9	14.9	15.9	29.2	61.5	430.7	309.5	391.6	333.9	86.9	54.8
82.5°	8.9	7.5	9.1	24.0	42.8	268.4	310.1	189.2	150.0	29.4	37.3
85°	3.2	2.6	4.4	16.5	28.6	82.3	287.4	159.1	125.0	14.3	28.4
87.5°	0.6	0.6	1.8	6.7	11.5	25.2	170.0	94.4	63.3	8.5	19.4
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°	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0	750.0
2.5°	747.7	739.1	727.6	713.5	696.9	682.2	671.3	660.0	657.6	653.6	653.0
5°	742.7	728.0	699.5	666.7	631.8	600.3	574.7	551.9	541.8	533.0	532.0
7.5°	735.4	713.3	664.7	612.0	557.4	507.8	465.8	436.0	408.6	395.6	393.6
10°	726.8	695.3	625.7	552.5	477.1	407.1	344.6	292.2	260.5	241.6	239.2
12.5°	718.9	677.6	585.8	490.8	390.6	297.0	216.6	166.6	133.3	119.8	118.2
15°	715.1	663.4	548.5	427.7	300.1	189.0	118.4	91.6	80.7	77.6	77.4
17.5°	714.7	651.3	512.0	362.4	210.3	109.9	77.2	70.4	68.2	67.4	67.4
20°	714.5	639.8	475.5	294.8	133.5	73.2	64.3	62.7	61.1	60.1	60.1
22.5°	716.7	629.4	437.4	225.7	84.1	59.3	56.5	54.9	53.0	51.6	51.4
25°	718.9	621.5	398.5	160.7	60.9	51.6	48.8	46.6	43.8	42.1	41.9
27.5°	719.3	611.6	356.9	107.5	51.0	45.0	41.5	38.1	34.9	33.1	32.9
30°	713.3	594.9	310.7	72.6	45.0	39.1	34.3	30.7	27.8	26.4	26.4
32.5°	701.6	574.3	259.9	54.8	40.1	33.5	28.4	25.0	23.0	22.4	22.2
35°	691.1	552.1	207.7	46.4	35.9	28.4	23.2	21.0	19.8	19.6	19.4
37.5°	685.0	534.2	158.7	42.1	31.9	23.8	19.6	18.1	17.5	17.1	17.3
40°	689.7	519.3	117.2	38.5	28.0	19.8	16.7	15.9	15.3	15.1	15.1
42.5°	710.6	516.8	87.1	35.3	24.2	16.5	14.5	13.9	13.5	13.3	13.5
45°	765.3	532.6	67.6	32.3	20.4	13.9	12.3	12.1	11.9	11.9	11.9
47.5°	847.6	565.4	56.3	29.0	17.1	11.9	10.7	10.5	10.3	10.5	10.5
50°	987.1	625.3	50.4	25.6	14.1	10.1	9.1	9.1	9.1	9.1	9.3
52.5°	1199.2	743.1	46.4	22.2	11.5	8.5	7.7	7.7	7.9	7.9	8.1
55°	1435.4	899.4	42.8	18.8	9.7	7.1	6.3	6.5	6.7	6.9	6.9
57.5°	1691.7	1072.6	39.9	15.5	8.3	5.8	5.4	5.6	5.8	6.1	6.1
60°	2001.0	1260.1	35.5	12.1	6.9	4.6	4.2	4.6	5.2	5.6	5.8
62.5°	2340.6	1441.4	30.0	9.5	5.8	3.6	3.4	4.2	5.0	5.4	5.6
65°	2572.7	1498.3	23.0	7.7	4.4	2.6	2.8	3.8	4.8	5.4	5.4
67°	2478.7	1358.5	18.8	6.5	3.6	2.0	2.6	3.8	4.8	5.2	5.4
67.5°	2413.4	1303.7	18.1	6.3	3.4	2.0	2.6	3.8	4.8	5.4	5.4
70°	1963.7	979.4	15.1	4.8	2.8	1.8	2.2	3.6	4.6	5.2	5.2
72.5°	1364.4	603.8	13.5	3.4	2.4	1.6	2.0	3.4	4.4	5.0	5.2
75°	648.7	218.6	11.5	2.6	2.2	1.4	1.8	3.4	4.4	5.0	5.0
77.5°	132.3	50.8	9.3	2.2	1.8	1.4	1.6	3.2	4.2	4.8	4.8
80°	43.4	19.6	6.9	2.0	1.8	1.4	1.6	3.0	4.2	4.6	4.8
82.5°	31.3	9.9	4.6	2.0	1.8	1.4	1.4	3.0	4.0	4.6	4.6
85°	24.0	6.9	3.0	2.0	1.8	1.4	1.4	2.8	3.8	4.4	4.4
87.5°	15.9	2.8	2.4	2.0	1.8	1.4	1.4	2.8	3.6	4.2	4.4
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)