

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: P191029

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191029
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-SL2-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 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: 3479.1 lumens
Efficiency: N/A
Efficacy: 102.3 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

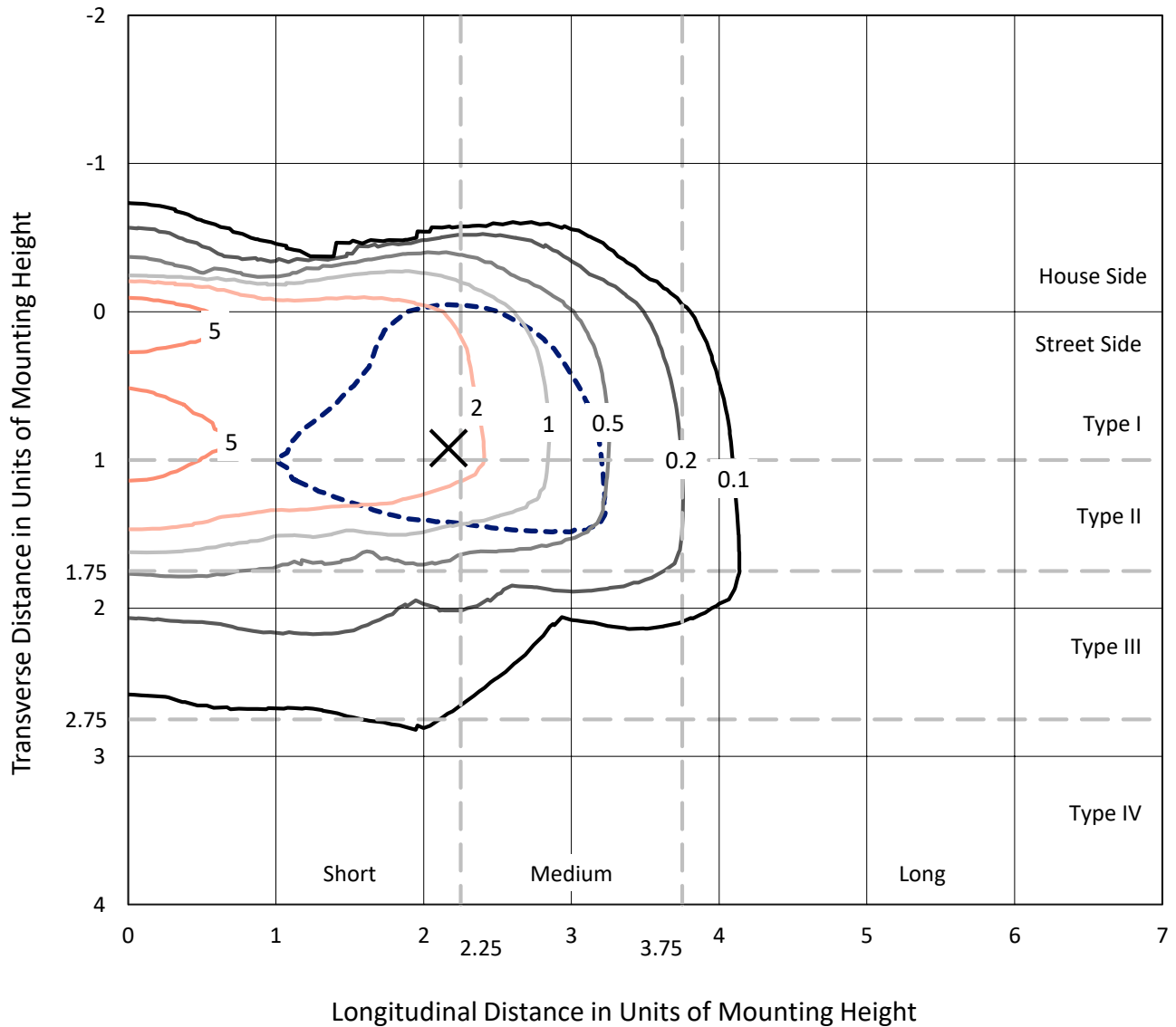


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Iso-Footcandle Lines of Horizontal Illumination

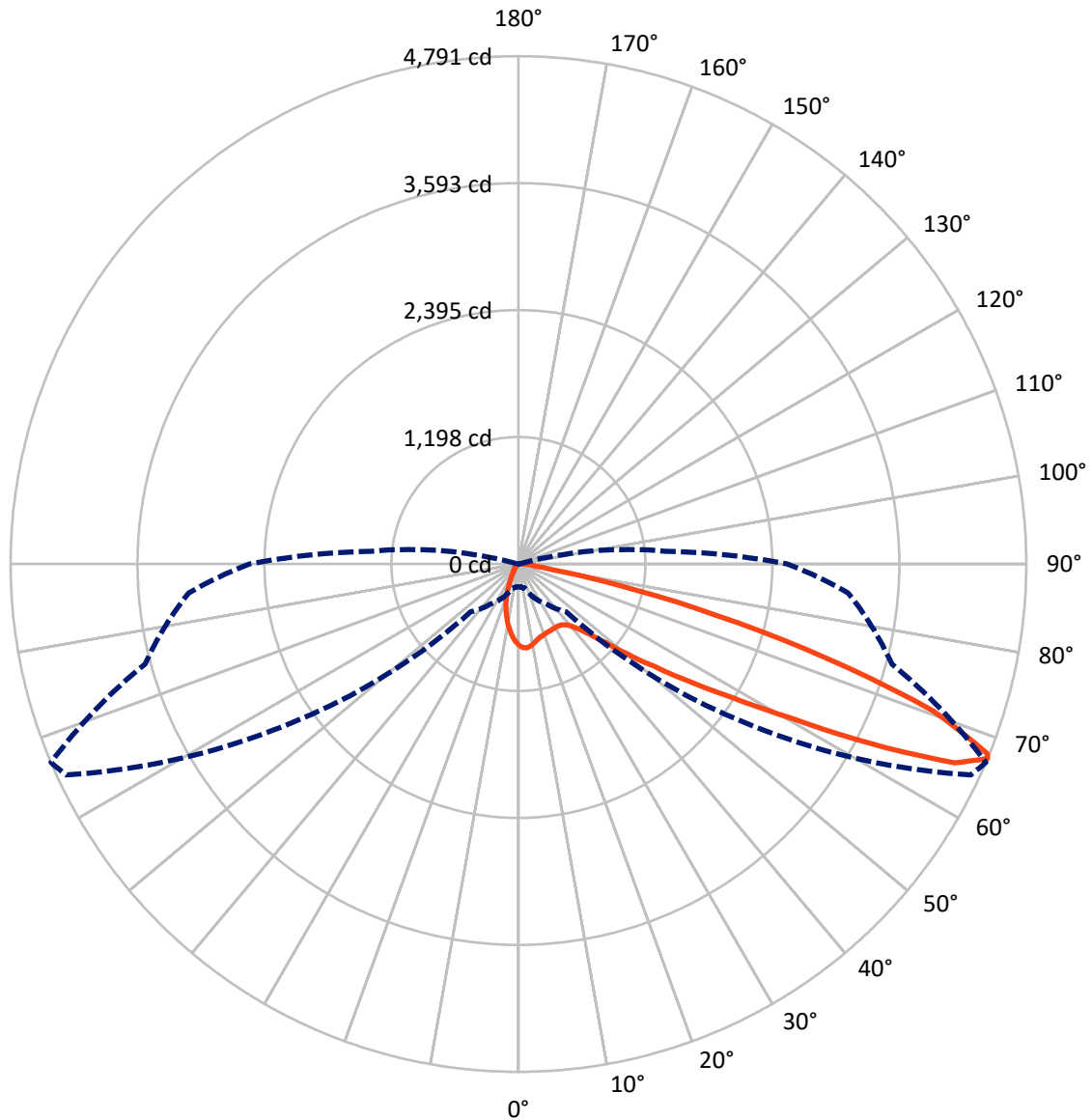
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 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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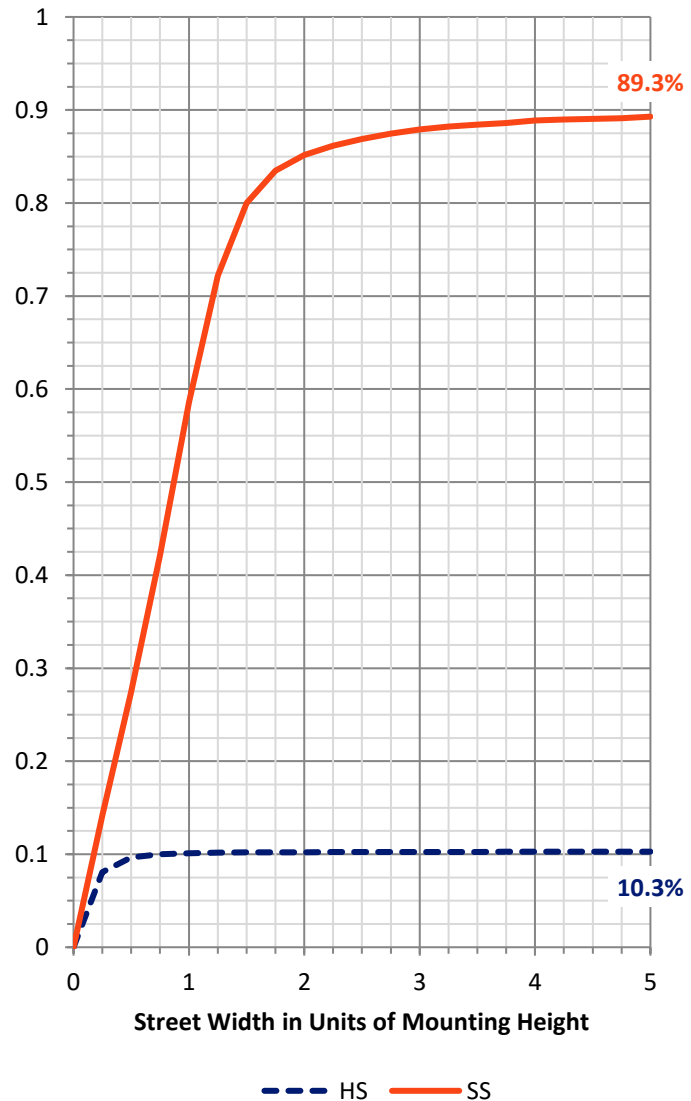
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	361.3	0.0	361.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3117.9	0.0	3117.9
	% Fixture	89.6	0.0	89.6
Total	Lumens	3479.1	0.0	3479.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	1.8
10°-20°	132.9	3.8
20°-30°	193.2	5.6
30°-40°	301.4	8.7
40°-50°	533.9	15.3
50°-60°	844.8	24.3
60°-70°	967.6	27.8
70°-80°	401.4	11.5
80°-90°	41.5	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°	3479.1	100.0
0°-180°	3479.1	100.0

Coefficient of Utilization



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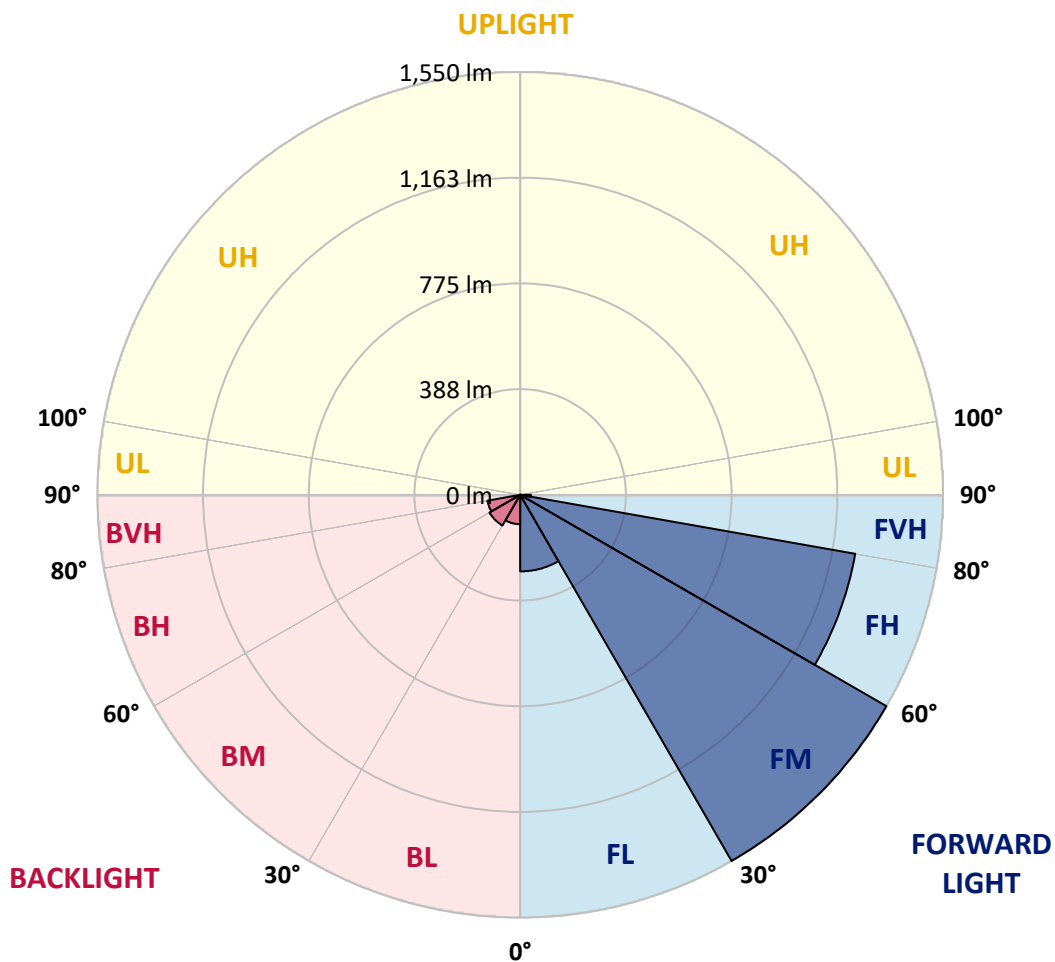
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	280.7	8.1			
FM (30°-60°)	1550.3	44.6			
FH (60°-80°)	1247.3	35.8			G1/1800
FVH (80°-90°)	39.6	1.1			G1/100
BL (0°-30°)	107.8	3.1	B0/110		
BM (30°-60°)	129.8	3.7	B0/220		
BH (60°-80°)	121.8	3.5	B1/500		G1/500
BVH (80°-90°)	1.9	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°	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2	767.2
2.5°	793.2	794.8	794.6	795.9	798.7	798.9	796.1	790.6	789.4	782.3	769.9
5°	731.5	736.2	739.1	750.6	763.6	779.3	791.0	795.2	794.6	789.6	770.9
7.5°	661.1	665.8	669.0	682.6	699.9	726.7	757.3	782.5	784.7	790.2	770.1
10°	614.3	615.1	619.5	632.5	650.6	678.0	714.5	758.5	765.3	785.3	768.0
12.5°	575.7	576.3	582.2	596.2	615.5	643.0	681.4	732.3	742.7	779.3	767.6
15°	548.3	550.6	555.8	570.4	591.0	618.3	657.7	713.1	725.5	777.0	771.3
17.5°	539.2	541.7	543.2	553.8	572.4	599.2	639.7	700.5	714.5	778.3	778.5
20°	548.7	550.6	546.9	549.5	561.1	585.0	624.4	689.8	706.3	779.6	787.6
22.5°	584.2	585.0	575.1	563.5	561.5	574.7	612.4	681.2	699.1	783.5	798.3
25°	645.1	643.6	627.5	602.5	579.0	572.9	605.3	676.0	695.4	787.6	809.5
27.5°	718.5	720.6	698.3	662.0	617.1	585.0	604.4	673.7	693.8	790.4	819.2
30°	807.8	810.7	785.1	739.5	675.1	615.1	613.7	673.3	692.7	788.6	820.0
32.5°	899.0	902.4	882.3	835.2	752.7	665.4	634.7	677.8	694.8	782.3	815.4
35°	994.3	999.2	985.8	945.4	857.7	738.1	671.9	691.4	704.4	781.6	810.7
37.5°	1126.1	1130.5	1105.3	1062.5	985.0	835.4	731.5	716.9	726.9	791.5	811.9
40°	1322.7	1322.1	1257.1	1191.5	1124.8	959.2	815.4	763.2	768.2	820.8	827.0
42.5°	1537.0	1536.0	1440.0	1340.3	1280.0	1111.6	925.6	843.1	839.7	875.0	865.9
45°	1702.1	1701.9	1623.6	1511.4	1466.9	1286.6	1068.0	954.3	949.1	963.1	937.7
47.5°	1772.6	1773.8	1734.4	1655.4	1674.2	1523.2	1247.6	1115.5	1107.5	1101.9	1063.4
50°	1717.7	1720.2	1723.5	1708.0	1826.2	1841.1	1488.5	1342.5	1338.7	1313.4	1253.0
52.5°	1538.8	1551.2	1589.4	1638.3	1878.9	2146.4	1866.1	1624.7	1603.9	1577.0	1510.6
55°	1237.3	1250.9	1323.3	1442.0	1800.4	2346.9	2395.3	1988.3	1953.7	1873.2	1777.4
57.5°	818.8	839.9	945.0	1096.0	1572.3	2379.1	2923.4	2492.9	2372.8	2152.2	2044.3
60°	451.1	471.4	585.4	722.2	1135.6	2219.6	3278.5	3150.0	2937.7	2464.1	2368.3
62.5°	277.8	288.8	373.0	500.2	681.0	1751.8	3351.9	3975.7	3730.0	2865.7	2759.8
65°	221.2	225.9	267.1	408.9	488.3	1042.0	3114.7	4605.2	4523.2	3351.9	3110.3
67°	214.7	216.6	236.0	351.1	460.2	638.8	2609.4	4707.6	4790.9	3646.2	3121.2
67.5°	216.1	218.2	236.6	335.0	459.4	587.1	2435.3	4667.3	4772.4	3669.5	3072.7
70°	208.4	214.7	270.9	334.8	436.9	487.8	1458.4	4043.9	4153.3	3409.6	2607.2
72.5°	73.9	74.3	117.1	270.9	475.1	493.1	732.3	2964.5	3045.5	2608.2	1879.7
75°	43.8	37.3	39.0	77.1	454.0	478.9	422.5	1894.3	1924.6	1494.5	952.0
77.5°	30.3	26.4	27.2	34.1	172.9	472.2	335.6	987.9	955.5	524.2	202.7
80°	17.3	15.2	16.3	29.9	62.9	440.6	316.6	400.6	341.6	88.9	56.1
82.5°	9.1	7.7	9.3	24.6	43.8	274.6	317.2	193.5	153.4	30.1	38.2
85°	3.3	2.7	4.5	16.9	29.3	84.2	294.0	162.8	127.9	14.6	29.1
87.5°	0.6	0.6	1.8	6.9	11.8	25.8	173.9	96.6	64.8	8.7	19.8
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°	764.9	756.1	744.3	729.9	712.9	697.9	686.7	675.1	672.7	668.6	668.0
5°	759.7	744.7	715.6	682.0	646.3	614.1	587.9	564.6	554.2	545.2	544.2
7.5°	752.3	729.7	680.0	626.0	570.2	519.5	476.5	446.0	418.0	404.7	402.6
10°	743.5	711.3	640.1	565.2	488.0	416.4	352.5	298.9	266.5	247.1	244.7
12.5°	735.4	693.2	599.2	502.1	399.6	303.8	221.6	170.4	136.4	122.5	120.9
15°	731.5	678.6	561.1	437.5	307.0	193.3	121.1	93.7	82.6	79.4	79.2
17.5°	731.1	666.2	523.8	370.7	215.1	112.4	79.0	72.0	69.8	68.9	68.9
20°	730.9	654.5	486.4	301.6	136.6	74.9	65.8	64.1	62.5	61.5	61.5
22.5°	733.1	643.8	447.4	230.9	86.0	60.7	57.8	56.2	54.2	52.8	52.6
25°	735.4	635.8	407.6	164.4	62.3	52.8	49.9	47.7	44.8	43.1	42.9
27.5°	735.8	625.6	365.1	110.0	52.2	46.0	42.5	39.0	35.7	33.9	33.7
30°	729.7	608.6	317.8	74.3	46.0	40.0	35.1	31.4	28.4	27.0	27.0
32.5°	717.7	587.5	265.9	56.1	41.0	34.3	29.1	25.6	23.5	22.9	22.7
35°	707.0	564.8	212.5	47.5	36.7	29.1	23.7	21.5	20.3	20.0	19.8
37.5°	700.7	546.5	162.3	43.1	32.6	24.3	20.0	18.5	17.9	17.5	17.7
40°	705.5	531.2	119.9	39.4	28.6	20.3	17.1	16.3	15.7	15.4	15.4
42.5°	726.9	528.7	89.1	36.1	24.8	16.9	14.8	14.2	13.8	13.6	13.8
45°	782.9	544.8	69.2	33.0	20.9	14.2	12.6	12.4	12.2	12.2	12.2
47.5°	867.1	578.4	57.6	29.7	17.5	12.2	10.9	10.7	10.5	10.7	10.7
50°	1009.8	639.7	51.6	26.2	14.4	10.3	9.3	9.3	9.3	9.3	9.5
52.5°	1226.7	760.2	47.5	22.7	11.8	8.7	7.9	7.9	8.1	8.1	8.3
55°	1468.3	920.0	43.8	19.2	9.9	7.3	6.4	6.6	6.9	7.1	7.1
57.5°	1730.5	1097.2	40.8	15.9	8.5	5.9	5.5	5.7	5.9	6.2	6.2
60°	2046.9	1289.0	36.3	12.4	7.1	4.7	4.3	4.7	5.3	5.7	5.9
62.5°	2394.3	1474.5	30.7	9.7	5.9	3.7	3.5	4.3	5.1	5.5	5.7
65°	2631.7	1532.7	23.5	7.9	4.5	2.7	2.9	3.9	4.9	5.5	5.5
67°	2535.6	1389.7	19.2	6.6	3.7	2.0	2.7	3.9	4.9	5.3	5.5
67.5°	2468.8	1333.6	18.5	6.4	3.5	2.0	2.7	3.9	4.9	5.5	5.5
70°	2008.8	1001.9	15.4	4.9	2.9	1.8	2.3	3.7	4.7	5.3	5.3
72.5°	1395.7	617.7	13.8	3.5	2.5	1.6	2.0	3.5	4.5	5.1	5.3
75°	663.6	223.6	11.8	2.7	2.3	1.4	1.8	3.5	4.5	5.1	5.1
77.5°	135.3	52.0	9.5	2.3	1.8	1.4	1.6	3.3	4.3	4.9	4.9
80°	44.4	20.0	7.1	2.0	1.8	1.4	1.6	3.1	4.3	4.7	4.9
82.5°	32.0	10.1	4.7	2.0	1.8	1.4	1.4	3.1	4.1	4.7	4.7
85°	24.6	7.1	3.1	2.0	1.8	1.4	1.4	2.9	3.9	4.5	4.5
87.5°	16.3	2.9	2.5	2.0	1.8	1.4	1.4	2.9	3.7	4.3	4.5
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)