

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: P268995

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P268995  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-7027-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3047.5 lumens  
Efficiency: N/A  
Efficacy: 89.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B0 - 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

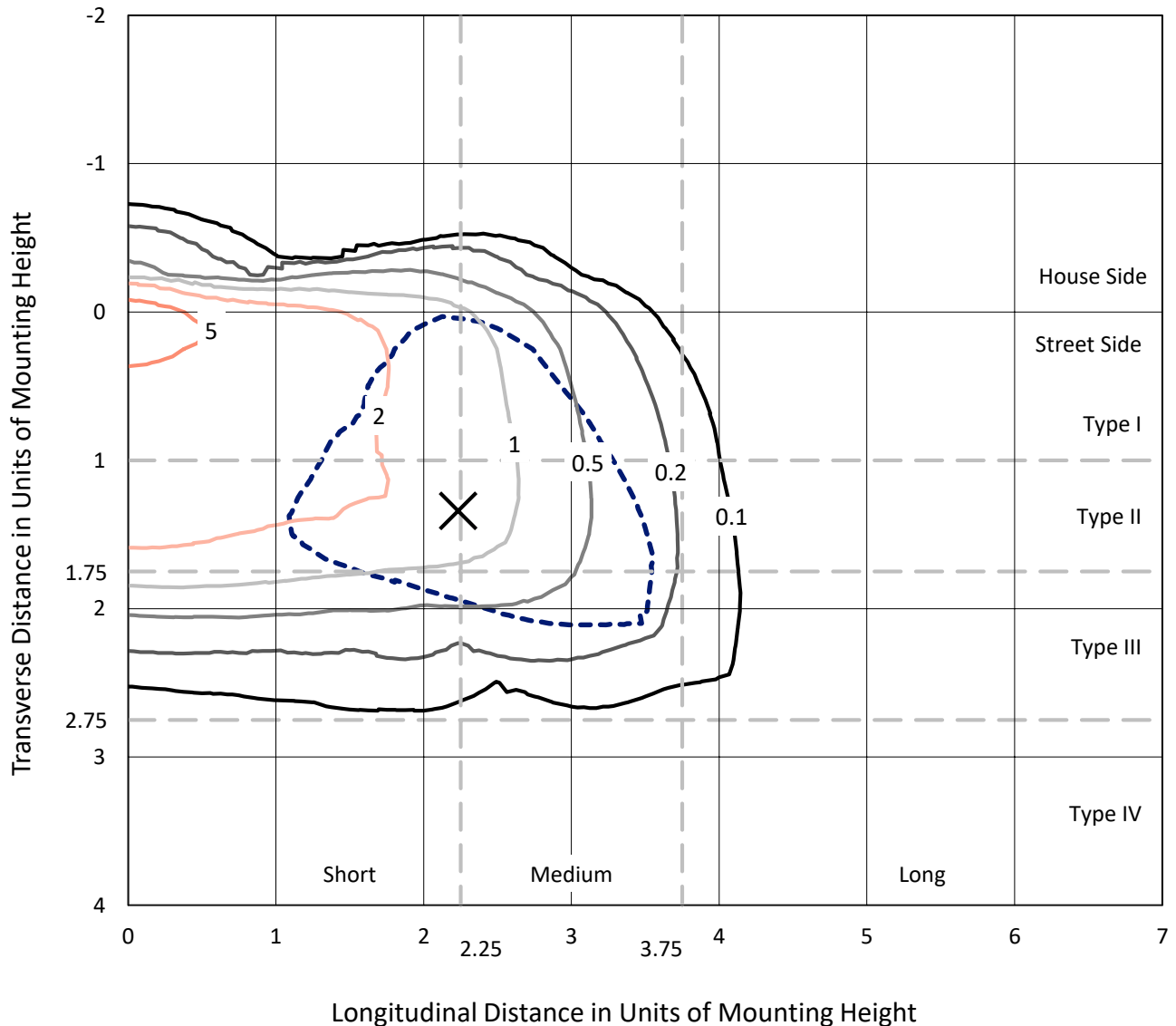


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

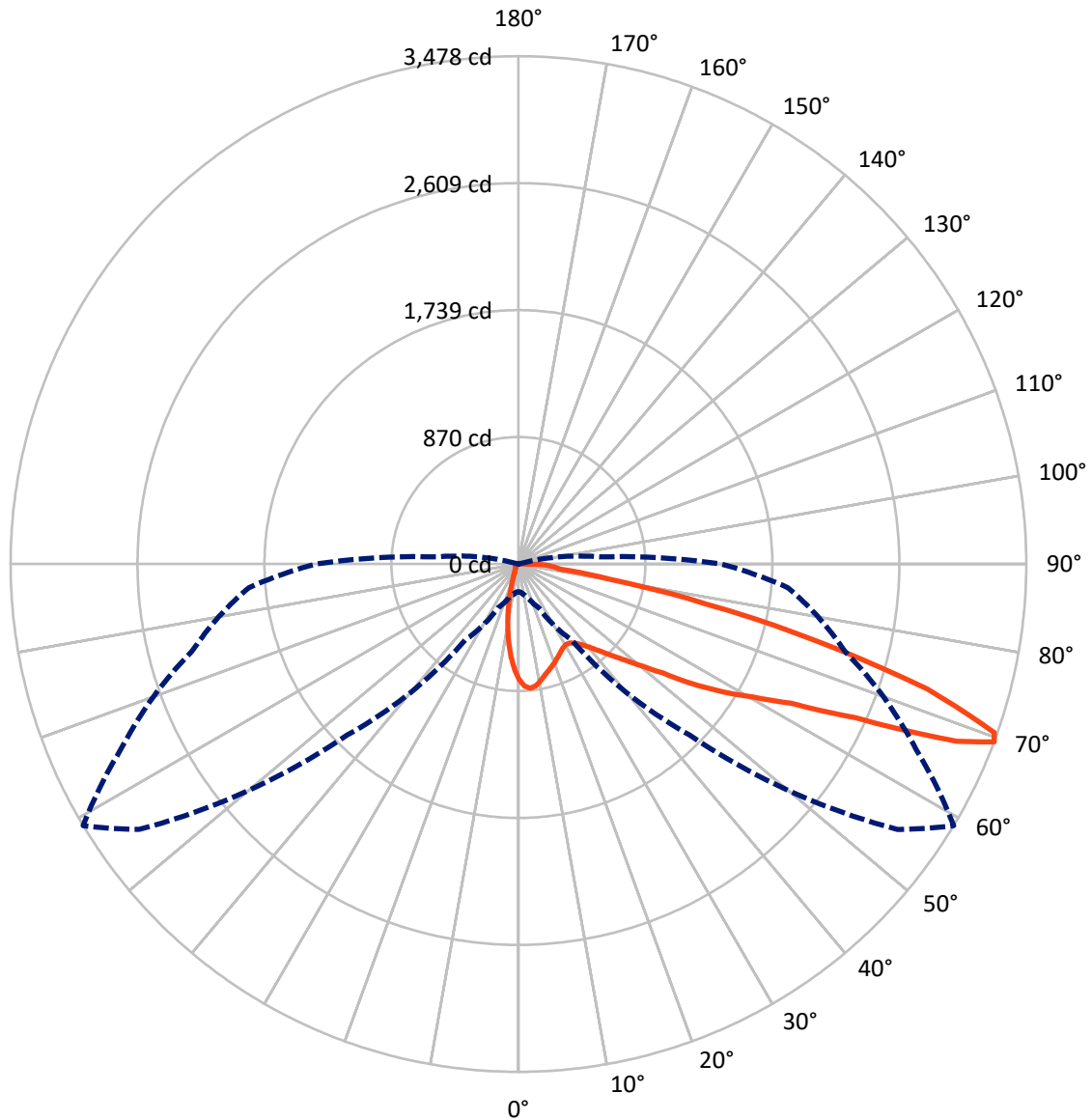


Based on 10 foot mounting height. Maximum calculated value = 8 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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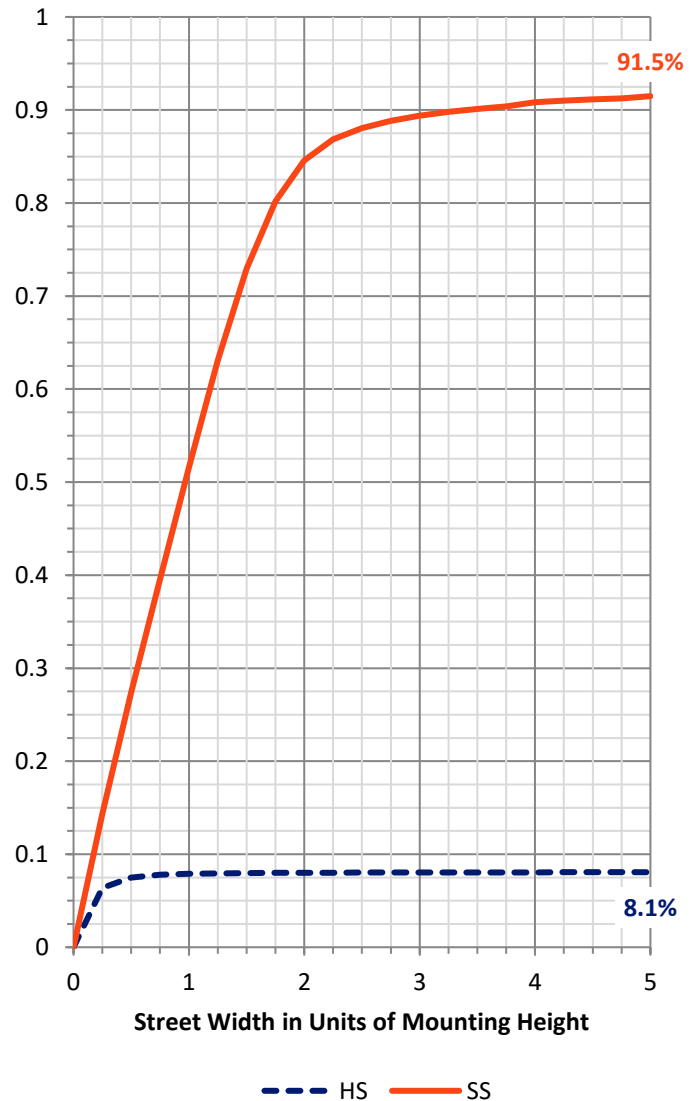
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	248.2	0.0	248.2
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	2799.3	0.0	2799.3
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	3047.5	0.0	3047.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.4	2.1
10°-20°	133.0	4.4
20°-30°	179.0	5.9
30°-40°	259.9	8.5
40°-50°	432.8	14.2
50°-60°	675.2	22.2
60°-70°	835.5	27.4
70°-80°	423.4	13.9
80°-90°	44.3	1.5
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°	3047.5	100.0
0°-180°	3047.5	100.0



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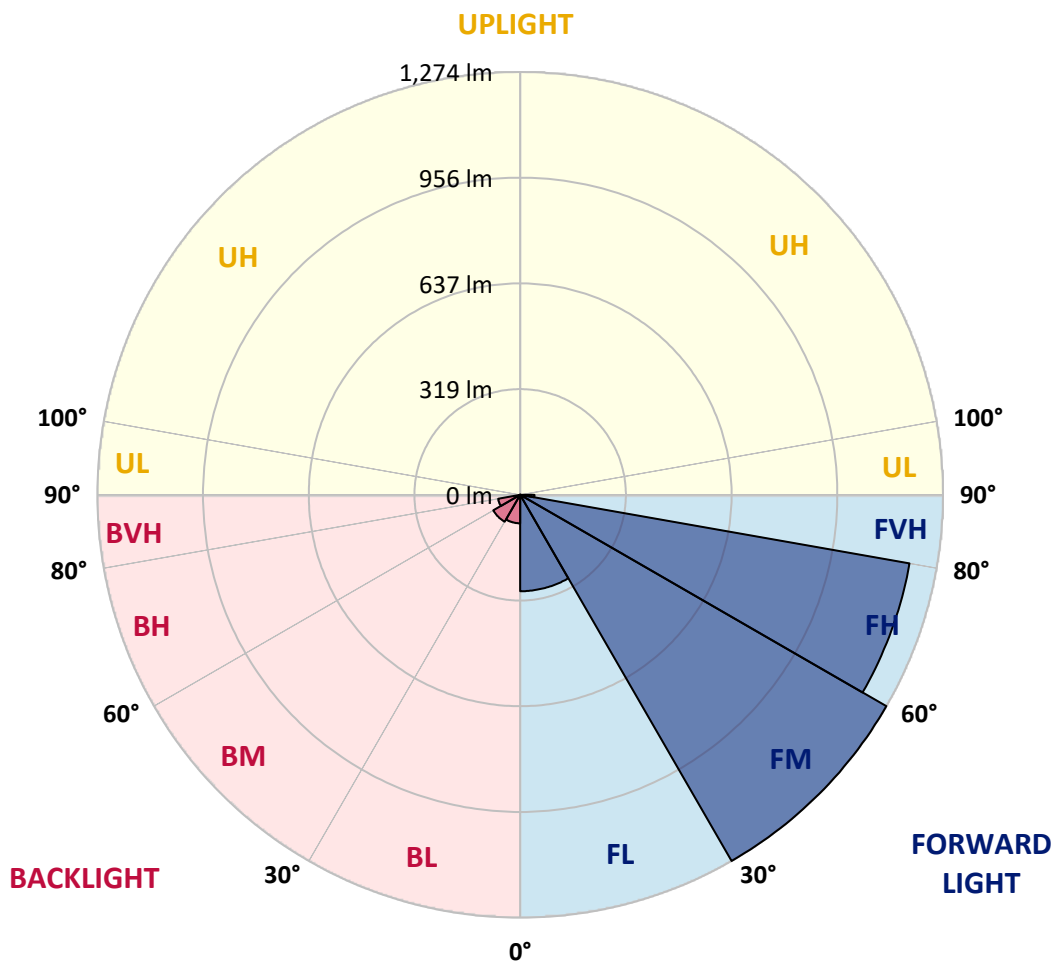
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	290.5	9.5			
FM	(30°-60°)	1274.4	41.8			
FH	(60°-80°)	1191.5	39.1			G1/1800
FVH	(80°-90°)	42.9	1.4			G1/100
BL	(0°-30°)	85.9	2.8	B0/110		
BM	(30°-60°)	93.5	3.1	B0/220		
BH	(60°-80°)	67.4	2.2	B0/110		G0/110
BVH	(80°-90°)	1.4	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3
2.5°	869.4	869.0	865.2	863.5	860.4	853.8	843.7	838.4	829.8	814.8	794.6
5°	861.5	865.5	867.9	868.0	870.3	867.9	858.7	854.2	842.3	818.1	782.1
7.5°	807.7	809.3	815.7	821.1	831.8	842.0	845.2	843.4	836.3	810.5	762.4
10°	750.2	751.7	759.2	766.6	780.9	796.6	813.2	816.6	819.7	799.4	743.3
12.5°	700.5	702.0	709.8	719.4	736.3	755.5	781.2	786.8	799.9	788.9	728.3
15°	657.7	658.5	666.1	677.9	698.0	722.7	751.8	761.0	780.7	781.4	715.1
17.5°	621.4	623.2	627.7	639.0	661.1	691.8	725.7	738.8	762.0	775.2	702.0
20°	599.2	600.8	600.7	607.0	626.7	659.4	699.5	715.2	743.3	768.9	690.4
22.5°	594.9	594.9	590.4	589.6	601.2	628.6	672.2	691.3	726.6	766.2	682.4
25°	610.2	609.5	598.4	589.2	589.6	606.0	645.9	668.6	712.5	768.1	678.1
27.5°	642.6	641.7	627.6	610.2	596.3	596.0	625.8	650.4	701.3	777.0	679.8
30°	687.5	687.1	671.8	649.8	624.5	601.2	619.0	641.2	694.1	793.3	683.8
32.5°	736.3	735.8	724.4	701.1	669.1	624.5	626.3	644.9	696.1	814.8	693.4
35°	788.3	787.4	782.3	762.2	726.9	667.4	650.1	664.4	709.3	847.0	712.4
37.5°	844.3	845.2	848.9	829.6	792.6	727.5	689.8	699.6	735.6	890.8	743.3
40°	927.3	927.1	928.3	902.9	867.4	801.2	745.6	748.6	779.8	948.8	790.1
42.5°	1077.7	1067.2	1035.3	983.6	947.8	885.2	815.7	812.3	833.6	1020.7	855.7
45°	1279.8	1257.4	1174.8	1075.7	1029.8	980.1	902.0	891.5	905.0	1107.0	936.8
47.5°	1453.7	1430.6	1313.5	1171.5	1116.9	1070.1	1003.0	984.2	988.7	1203.6	1039.5
50°	1512.8	1501.4	1399.3	1254.9	1201.2	1183.2	1120.5	1097.4	1091.0	1315.6	1158.5
52.5°	1492.4	1491.5	1423.5	1309.0	1278.3	1300.3	1268.1	1241.5	1218.0	1433.4	1279.6
55°	1459.4	1463.8	1433.2	1356.4	1355.4	1407.5	1470.2	1447.9	1379.9	1561.4	1384.1
57.5°	1368.6	1387.1	1427.8	1446.0	1488.4	1541.6	1638.2	1651.4	1571.1	1659.4	1470.9
60°	1110.5	1151.0	1283.9	1458.8	1659.9	1792.6	1841.3	1852.6	1727.9	1741.1	1587.8
62.5°	788.3	829.6	998.2	1294.2	1662.5	2122.2	2143.7	2099.8	1900.6	1861.8	1789.7
65°	418.4	450.3	588.1	934.1	1441.3	2198.7	2672.5	2541.7	2205.2	2099.5	2050.3
67.5°	214.1	223.7	278.5	457.1	990.9	1952.9	3146.8	3238.8	2730.4	2335.2	2037.7
69°	189.5	195.1	231.5	330.5	634.6	1654.1	3169.8	3478.2	3005.2	2315.7	1851.9
70°	183.3	188.4	221.4	299.1	496.0	1387.3	3081.4	3457.2	3075.5	2240.7	1713.0
72.5°	155.5	159.9	197.2	264.3	403.1	688.6	2503.0	2929.6	2759.9	1866.7	1239.9
75°	104.1	118.1	189.3	247.8	375.0	391.2	1650.1	2117.0	1966.6	1259.1	645.9
77.5°	25.1	26.9	53.4	197.2	343.0	344.3	848.7	1316.0	1073.5	448.8	152.7
80°	13.5	12.9	15.0	39.2	319.3	323.1	382.0	638.9	383.2	74.4	50.3
82.5°	9.5	9.0	9.6	16.3	100.5	294.4	276.4	289.2	158.9	28.6	22.5
85°	3.5	3.2	5.3	14.8	31.5	169.2	284.0	238.5	128.7	13.0	16.6
87.5°	1.2	1.1	2.1	8.2	9.6	72.0	175.3	180.3	50.7	7.9	7.7
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°	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3	793.3
2.5°	786.1	775.4	755.8	735.6	717.0	694.7	683.4	672.4	667.8	666.1	658.0
5°	763.4	745.4	703.6	661.7	623.2	582.1	555.1	533.4	520.6	514.4	504.6
7.5°	734.3	704.6	641.4	576.8	516.6	457.3	413.4	379.7	356.4	345.2	335.0
10°	706.0	666.5	576.6	488.6	406.8	328.3	267.6	223.7	195.7	182.6	174.5
12.5°	680.6	629.5	514.1	402.6	300.0	208.0	146.3	111.3	94.0	87.9	85.0
15°	658.1	595.3	454.9	320.9	203.1	118.8	79.9	68.1	65.2	65.2	64.9
17.5°	636.8	562.0	397.9	244.2	127.5	72.8	60.8	59.3	59.3	59.9	59.9
20°	616.2	530.1	342.8	175.3	80.3	57.8	54.9	54.6	54.9	55.9	55.9
22.5°	598.7	501.2	291.2	120.4	59.6	52.0	50.7	50.1	50.3	50.8	51.2
25°	585.5	476.7	242.6	81.4	51.4	47.4	45.9	44.9	44.2	44.2	44.6
27.5°	577.3	456.0	195.7	59.3	46.3	43.1	40.7	39.3	37.8	36.9	37.2
30°	571.2	436.3	151.5	48.4	41.3	38.3	35.2	32.9	30.7	29.6	30.1
32.5°	569.0	420.4	113.2	42.7	37.0	33.5	29.9	26.9	24.4	23.6	23.7
35°	575.0	407.9	83.0	38.5	33.5	29.3	25.1	21.6	19.9	19.4	19.5
37.5°	590.9	401.2	62.1	35.2	30.5	25.7	20.8	17.7	16.6	16.6	16.7
40°	620.9	401.1	49.8	32.8	27.8	22.2	17.2	15.0	14.4	14.6	14.8
42.5°	664.7	410.2	43.4	30.5	25.3	19.0	14.4	12.8	12.5	12.9	13.0
45°	724.5	426.9	40.0	28.6	22.7	15.9	12.0	11.0	11.0	11.6	11.7
47.5°	797.8	451.3	37.0	26.7	20.1	13.2	10.3	9.6	9.8	10.3	10.5
50°	885.9	482.2	34.1	24.7	18.2	11.0	9.0	8.4	8.7	9.3	9.5
52.5°	986.3	523.7	31.7	22.7	15.9	9.2	7.5	7.2	7.5	8.3	8.4
55°	1072.5	560.9	28.7	21.2	12.8	7.5	6.2	6.2	6.6	7.4	7.5
57.5°	1155.5	599.9	26.2	18.2	10.1	6.0	5.2	5.3	5.8	6.6	6.8
60°	1277.1	665.9	23.0	15.4	7.5	4.9	4.3	4.5	5.2	6.0	6.2
62.5°	1483.7	766.3	20.0	12.8	5.8	3.9	3.5	3.9	4.6	5.7	5.8
65°	1670.2	807.1	16.3	10.7	4.5	3.0	3.0	3.5	4.5	5.5	5.7
67.5°	1566.3	679.5	12.8	8.4	3.5	2.2	2.4	3.2	4.3	5.5	5.7
69°	1385.1	555.6	10.9	6.6	3.0	2.1	2.2	3.2	4.3	5.3	5.5
70°	1244.1	469.0	9.6	5.7	2.5	2.1	2.2	3.1	4.3	5.3	5.5
72.5°	833.2	253.3	7.7	4.1	2.4	1.8	1.8	3.1	4.1	5.2	5.3
75°	358.2	70.0	6.2	3.0	2.1	1.7	1.7	3.0	4.0	5.0	5.3
77.5°	65.4	17.7	5.0	2.5	2.1	1.7	1.5	2.8	3.9	4.9	5.0
80°	26.1	8.9	4.0	2.2	1.8	1.5	1.3	2.5	3.7	4.6	4.9
82.5°	15.7	5.0	3.2	2.1	1.8	1.3	1.2	2.2	3.5	4.5	4.6
85°	12.8	3.5	2.5	2.1	1.7	1.3	1.1	2.1	3.1	4.3	4.5
87.5°	6.2	2.4	2.4	1.8	1.7	1.3	1.1	1.8	3.0	4.1	4.3
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)