

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: P526526

Luminaire Tested: **GALN-SA1C-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1C-727-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5228 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

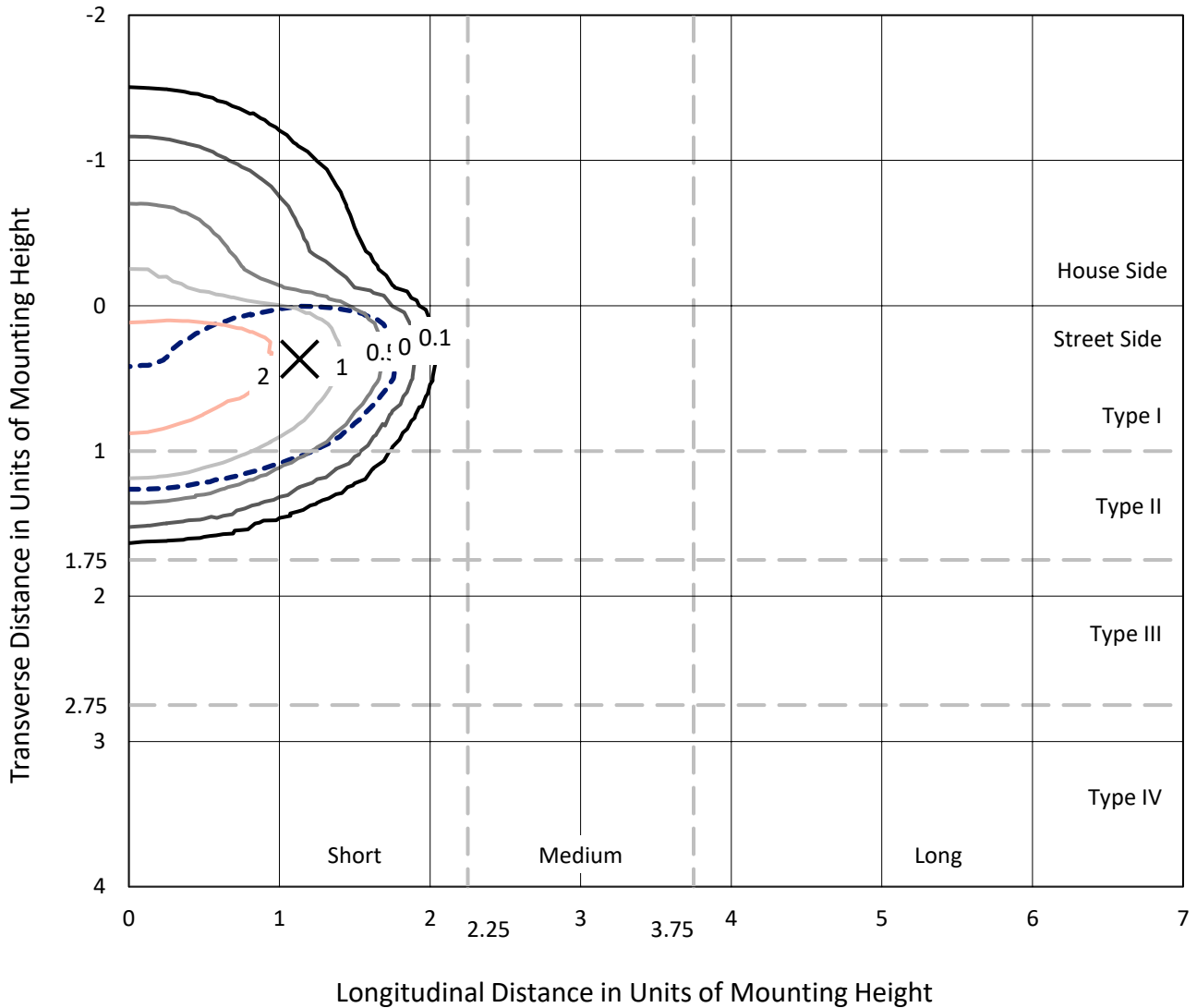
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

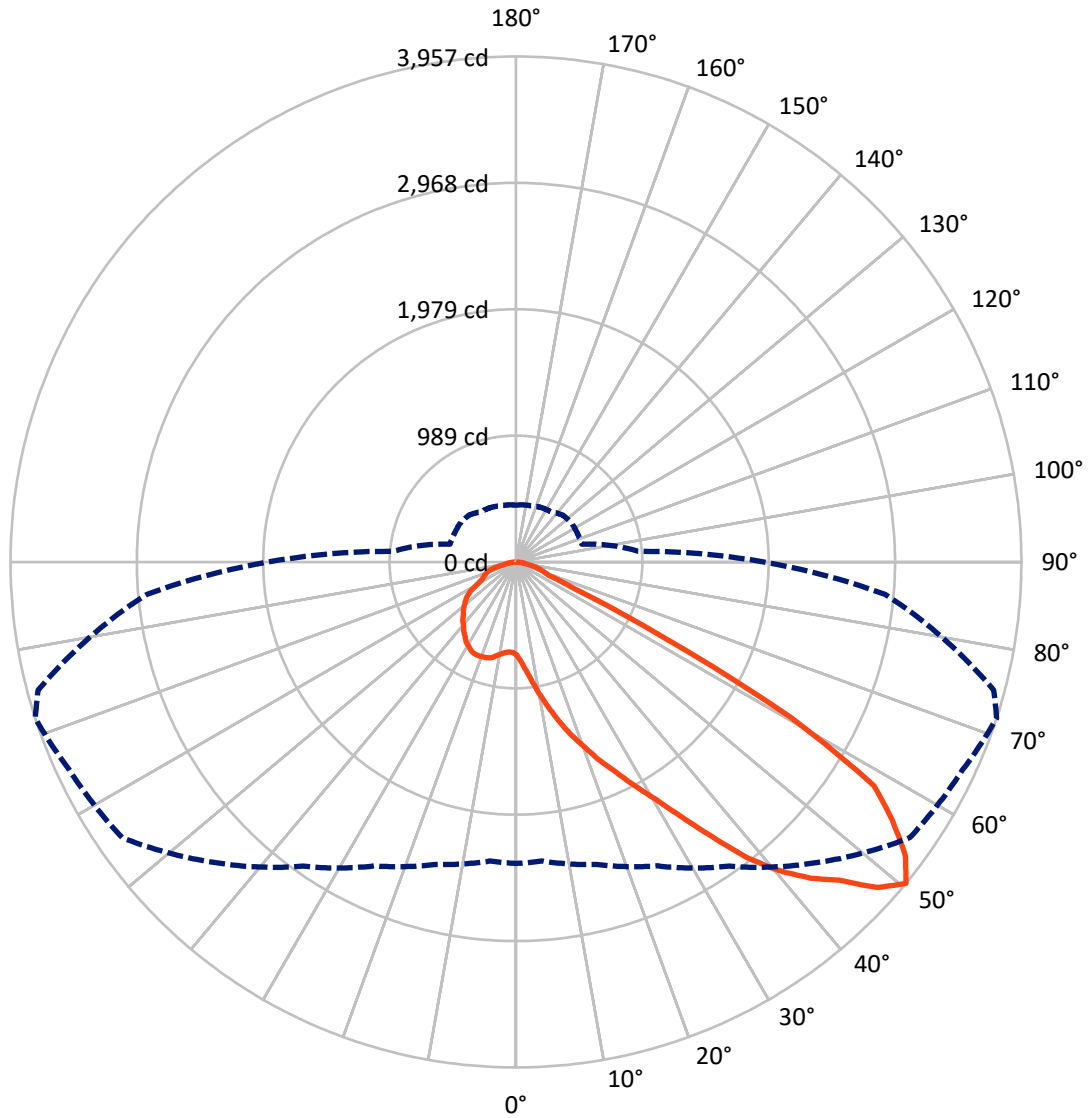
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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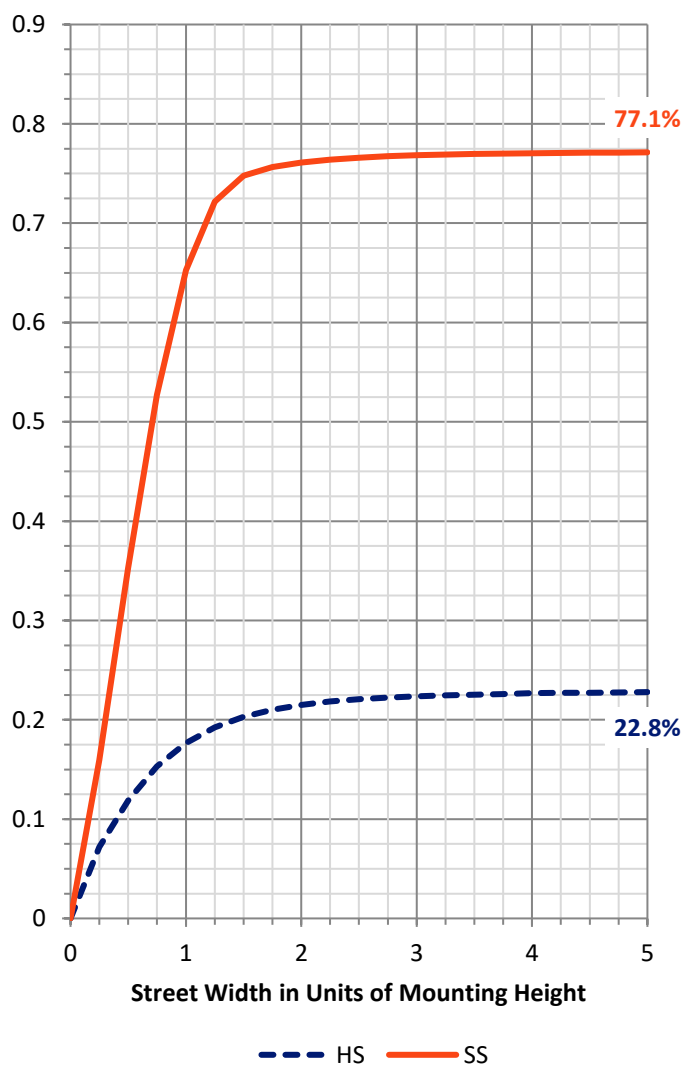
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1197.8	0.0	1197.8
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	4030.2	0.0	4030.2
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	5228.0	0.0	5228.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.6	1.6
10°-20°	320.0	6.1
20°-30°	620.5	11.9
30°-40°	1028.0	19.7
40°-50°	1438.3	27.5
50°-60°	1213.4	23.2
60°-70°	369.8	7.1
70°-80°	129.8	2.5
80°-90°	22.6	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°	5228.0	100.0
0°-180°	5228.0	100.0

**Coefficient of Utilization**



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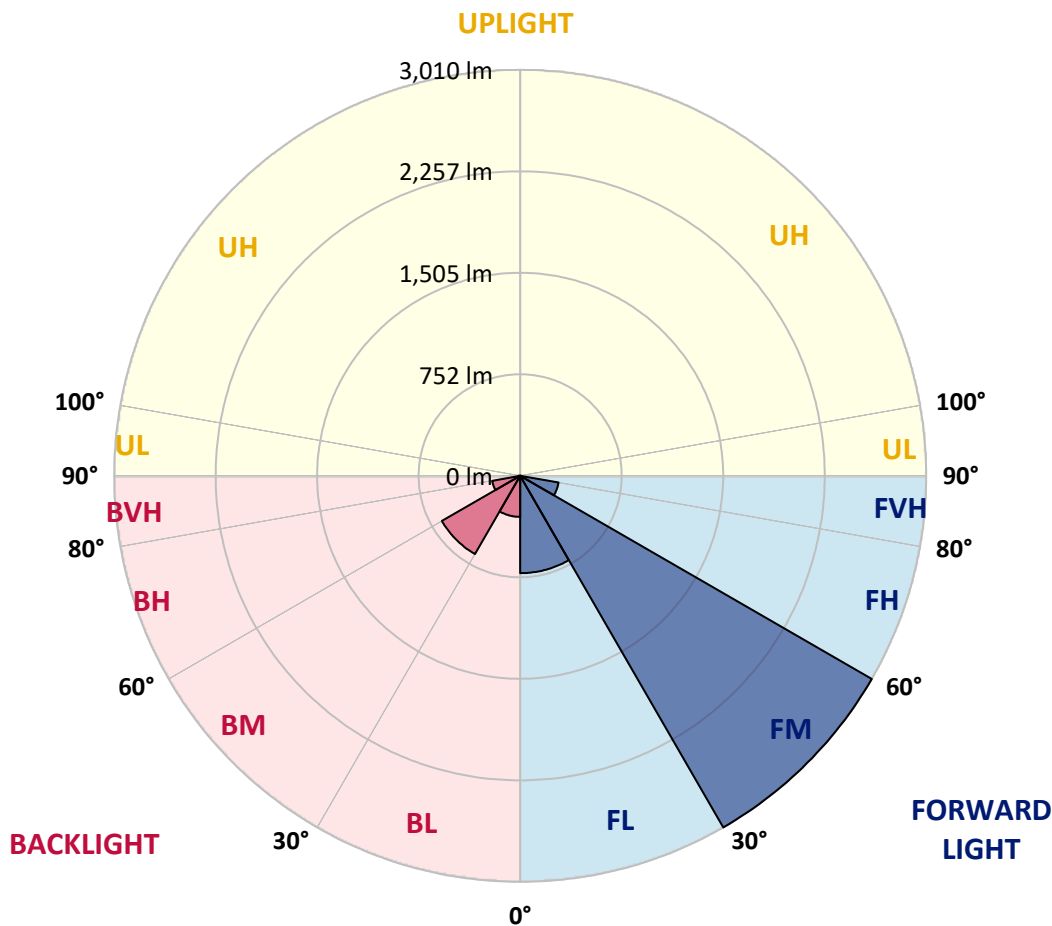
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.7	13.8			
FM (30°-60°)	3009.9	57.6			
FH (60°-80°)	288.6	5.5			G0/660
FVH (80°-90°)	10.1	0.2			G1/100
BL (0°-30°)	304.5	5.8	B1/500		
BM (30°-60°)	669.8	12.8	B1/1000		
BH (60°-80°)	211.0	4.0	B1/500		G1/500
BVH (80°-90°)	12.5	0.2			G1/100
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°	72°	75°	85°
0°	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8
2.5°	936.1	930.3	912.8	907.0	886.3	848.8	835.8	797.6	781.5	766.6	749.1
5°	1183.9	1156.7	1154.7	1121.8	1073.9	1046.1	963.3	907.6	856.5	830.6	782.8
7.5°	1341.7	1342.4	1342.4	1315.2	1277.0	1206.5	1132.1	1031.8	954.9	916.7	835.2
10°	1491.8	1478.9	1471.7	1469.1	1443.3	1374.7	1295.1	1170.9	1065.5	1020.8	874.6
12.5°	1597.9	1586.9	1603.1	1594.7	1575.9	1531.3	1456.2	1314.5	1182.6	1122.4	938.0
15°	1648.3	1656.1	1669.0	1692.3	1683.9	1667.1	1584.3	1462.0	1308.7	1240.8	994.3
17.5°	1726.0	1704.6	1720.2	1749.3	1772.6	1764.8	1717.6	1568.8	1433.6	1350.1	1070.0
20°	1780.3	1768.0	1775.8	1809.4	1826.9	1870.9	1846.3	1708.5	1553.2	1465.3	1159.3
22.5°	1935.6	1917.5	1892.2	1897.4	1903.9	1934.9	1940.8	1861.8	1692.3	1599.2	1244.0
25°	2127.1	2110.2	2080.5	2050.1	2031.3	2025.5	2045.6	1982.2	1825.6	1729.2	1335.2
27.5°	2338.0	2309.5	2290.7	2228.0	2177.5	2169.8	2160.1	2125.8	1983.4	1879.3	1438.1
30°	2543.0	2520.4	2495.2	2394.9	2342.5	2334.1	2286.2	2295.9	2154.9	2039.1	1554.5
32.5°	2698.3	2700.2	2642.7	2567.0	2517.8	2473.2	2455.7	2483.5	2374.8	2281.7	1684.6
35°	2823.8	2829.6	2774.6	2706.1	2653.0	2684.1	2676.3	2689.2	2637.5	2523.6	1836.0
37.5°	2946.1	2917.0	2858.1	2825.1	2797.3	2848.4	2914.4	2925.4	2935.1	2801.2	2011.9
40°	2966.1	2968.7	2934.4	2957.7	2922.8	2999.8	3153.1	3138.8	3178.3	3061.2	2202.8
42.5°	2937.7	2943.5	2957.1	2990.1	3074.2	3166.7	3394.4	3336.2	3384.0	3279.9	2388.4
45°	2891.1	2867.1	2884.0	3009.5	3155.0	3360.7	3615.0	3569.7	3554.2	3466.8	2609.7
47.5°	2668.5	2693.1	2745.5	2900.1	3118.8	3394.4	3771.5	3761.2	3807.8	3746.3	2810.9
50°	2360.0	2350.3	2451.2	2625.2	2907.2	3328.4	3763.1	3856.9	3957.2	3871.8	2900.8
52.5°	1767.4	1819.1	1905.8	2121.9	2524.3	2968.7	3579.4	3735.9	3817.5	3799.3	2828.3
55°	1117.2	1132.8	1185.2	1442.0	1804.3	2382.6	3068.3	3431.3	3576.8	3644.7	2761.7
57.5°	542.8	513.7	577.7	784.1	1042.2	1602.4	2366.4	2988.8	3305.1	3428.0	2616.8
60°	283.3	294.3	319.6	393.3	538.9	831.9	1475.0	1991.9	2475.1	2664.0	1983.4
62.5°	234.8	238.7	255.5	292.4	358.4	478.7	753.0	971.0	1262.1	1432.3	1128.2
65°	199.3	201.2	219.3	243.9	285.9	337.0	387.5	405.6	491.0	503.9	401.1
67.5°	166.3	168.2	187.6	210.9	238.1	251.7	264.6	263.3	273.0	269.1	268.5
70°	128.1	130.0	150.1	174.7	188.3	180.5	220.6	229.7	233.5	236.8	241.9
72.5°	92.5	96.4	111.9	129.4	122.3	140.4	181.8	195.4	200.5	202.5	209.0
75°	67.3	68.6	72.5	67.3	77.6	97.7	128.1	144.9	151.4	153.3	163.0
77.5°	29.8	30.4	31.1	38.8	49.8	60.8	76.3	89.9	99.0	101.6	104.2
80°	15.5	16.2	20.1	26.5	35.6	44.6	55.6	63.4	69.2	69.9	72.5
82.5°	9.7	10.4	14.2	18.8	25.2	33.0	40.8	47.2	51.8	52.4	53.0
85°	4.5	5.8	8.4	11.6	16.8	21.3	22.0	18.8	20.1	20.7	19.4
87.5°	1.3	1.9	2.6	1.9	2.6	2.6	3.2	3.9	3.9	3.9	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8	727.8
2.5°	739.4	733.6	711.0	702.6	680.6	684.4	672.8	672.1	669.6	668.9	668.3
5°	757.5	739.4	712.3	691.6	679.3	678.0	669.6	669.6	672.1	674.1	669.6
7.5°	787.3	766.6	720.7	701.3	690.3	688.3	682.5	678.0	683.8	681.9	676.7
10°	821.6	785.4	736.8	720.0	701.9	697.4	697.4	699.3	689.6	692.8	687.7
12.5°	859.8	811.2	757.5	738.1	716.8	714.2	712.9	698.7	703.8	701.3	688.3
15°	908.3	841.0	784.1	751.1	733.0	721.3	704.5	701.9	698.7	692.2	686.4
17.5°	960.7	873.3	796.4	755.0	727.8	719.4	706.4	692.8	683.1	684.4	679.9
20°	1005.3	903.1	800.9	758.8	723.9	707.7	687.7	679.3	668.9	668.3	667.6
22.5°	1058.4	943.2	807.4	748.5	712.3	695.4	681.9	667.0	659.9	650.8	655.3
25°	1121.8	958.7	808.6	742.7	703.8	674.1	667.0	650.8	648.2	635.3	637.9
27.5°	1167.7	967.1	798.3	724.5	684.4	661.8	648.9	637.2	632.7	623.0	620.4
30°	1229.1	980.1	776.3	701.9	665.0	639.8	632.0	629.5	616.5	606.2	604.9
32.5°	1299.0	988.5	762.1	678.6	645.0	625.6	629.5	617.2	601.0	591.9	589.3
35°	1354.6	991.7	726.5	652.1	631.4	619.1	614.6	612.0	588.7	580.3	573.8
37.5°	1439.4	984.6	696.7	633.3	616.5	612.0	608.1	590.6	564.1	551.8	542.8
40°	1538.4	982.7	658.6	606.8	602.3	607.5	595.8	568.6	531.8	518.2	511.7
42.5°	1633.5	996.3	634.6	592.6	586.8	588.7	572.5	531.8	513.7	505.9	495.5
45°	1792.6	1024.7	595.2	570.6	568.0	566.7	547.3	504.6	494.2	484.5	482.6
47.5°	1936.2	1006.0	569.9	547.9	550.5	543.4	502.0	488.4	476.8	467.1	463.8
50°	1944.6	961.3	534.4	530.5	531.1	518.8	479.4	470.3	455.4	449.0	444.4
52.5°	1900.6	888.2	501.4	502.7	504.6	484.5	451.5	445.1	432.8	423.7	421.1
55°	1777.1	774.4	469.0	474.2	479.4	441.2	430.8	414.7	405.0	392.0	392.7
57.5°	1565.5	623.6	423.7	432.1	443.1	401.1	393.3	373.3	359.0	348.7	347.4
60°	1049.3	443.8	355.8	359.0	383.6	366.8	366.2	346.1	326.7	317.6	312.5
62.5°	619.1	339.0	307.3	304.1	303.4	313.1	329.3	322.2	296.9	279.5	284.6
65°	324.1	293.1	285.9	274.9	268.5	265.9	278.2	281.4	264.6	245.8	244.5
67.5°	272.4	272.4	266.5	262.6	253.6	242.6	234.8	224.5	221.9	216.7	210.2
70°	247.8	254.2	252.3	243.2	235.5	223.2	203.1	186.3	170.1	164.3	168.2
72.5°	216.1	222.5	222.5	218.0	207.7	188.9	169.5	150.1	136.5	126.1	124.9
75°	166.3	169.5	177.3	172.1	158.5	146.9	126.8	106.7	93.8	84.1	82.2
77.5°	106.1	111.3	111.3	110.6	100.9	89.9	77.0	62.8	53.0	45.9	44.0
80°	70.5	73.7	76.3	73.7	67.3	58.9	49.2	39.5	32.3	26.5	25.2
82.5°	51.8	55.6	57.6	55.0	48.5	42.0	34.9	27.8	20.7	16.2	14.9
85°	20.1	20.7	23.3	27.8	27.2	26.5	21.3	15.5	11.6	8.4	7.8
87.5°	5.2	4.5	5.2	5.2	4.5	3.9	3.9	3.9	3.9	1.9	2.6
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)