

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: P528555

Luminaire Tested: **GALN-SA3C-827-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-827-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9214 lumens  
Efficiency: N/A  
Efficacy: 57.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

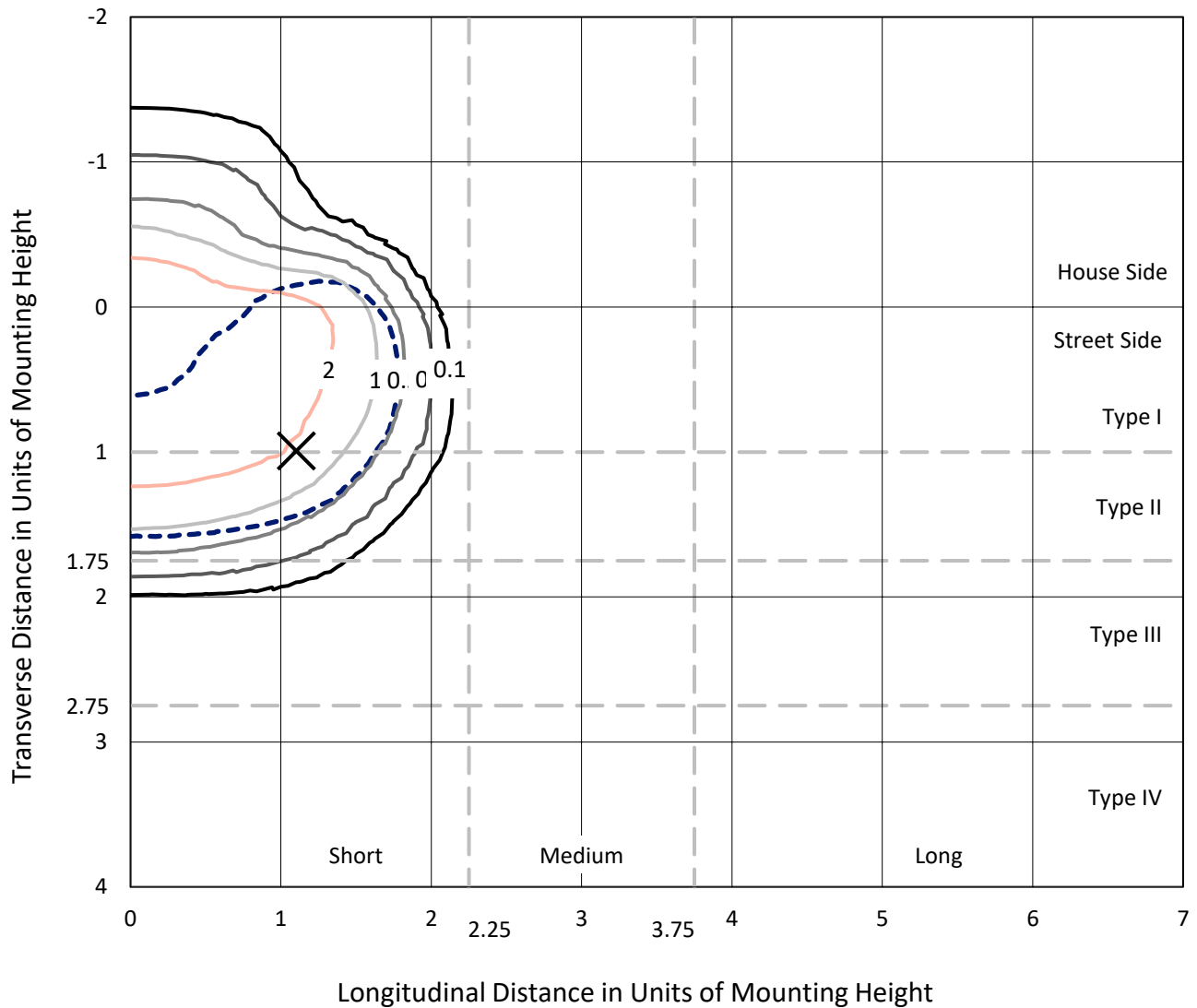
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

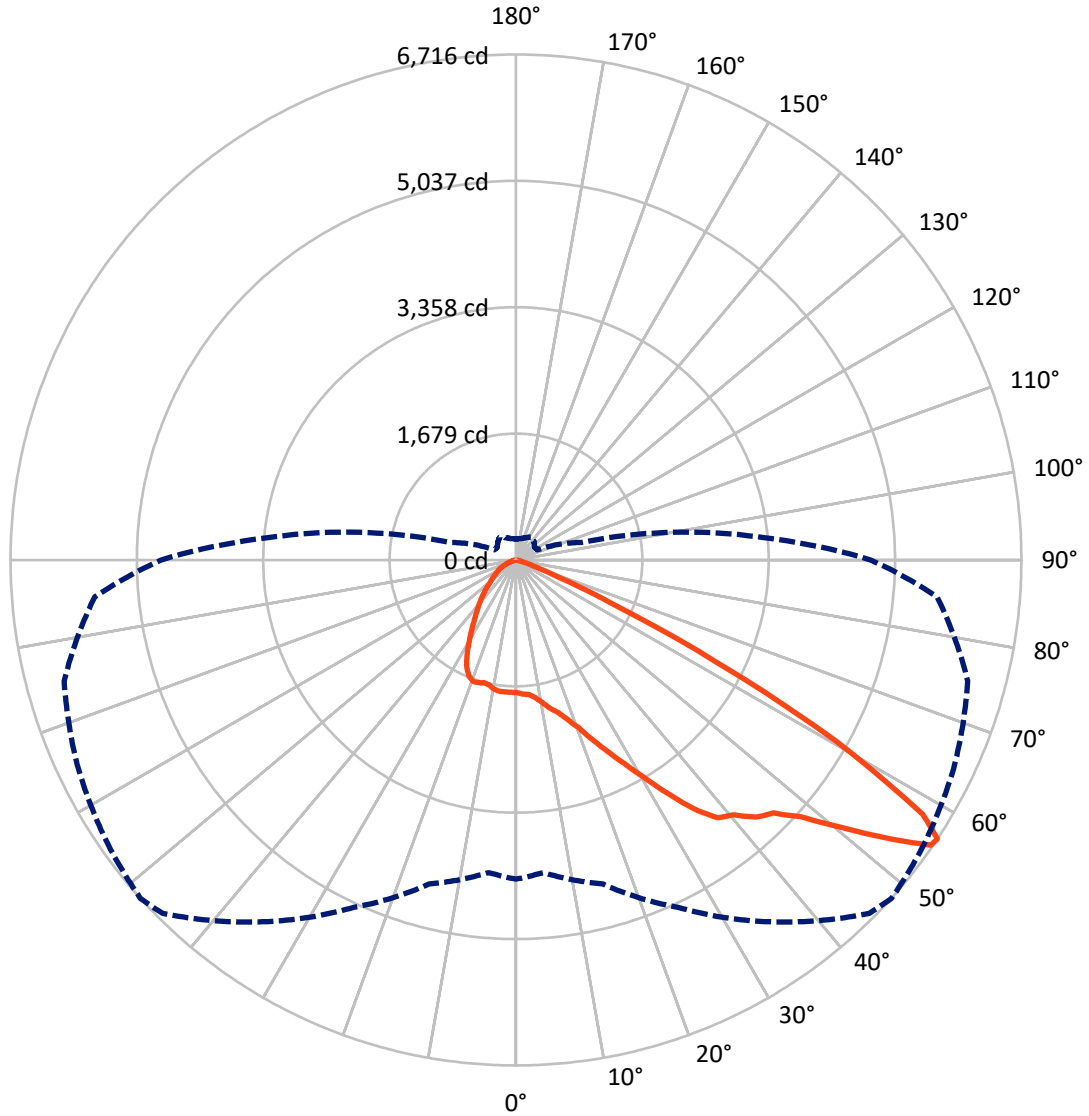
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2003.9	0.0	2003.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	7210.1	0.0	7210.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	9214.0	0.0	9214.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.4	1.9
10°-20°	547.9	5.9
20°-30°	993.7	10.8
30°-40°	1560.9	16.9
40°-50°	2277.1	24.7
50°-60°	2743.5	29.8
60°-70°	803.3	8.7
70°-80°	101.9	1.1
80°-90°	14.3	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°	9214.0	100.0
0°-180°	9214.0	100.0

**Coefficient of Utilization**

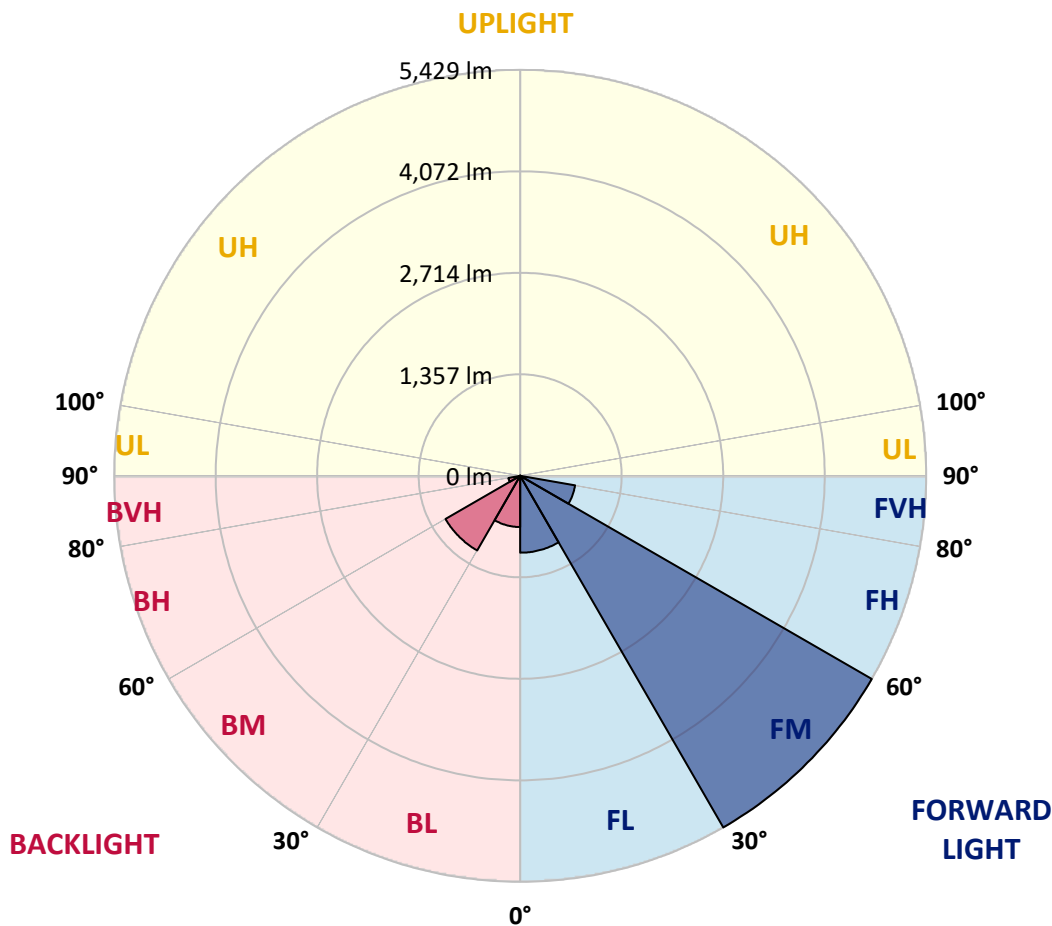


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1028.1	11.2			
FM (30°-60°)	5428.9	58.9			
FH (60°-80°)	745.9	8.1			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	684.9	7.4	B2/1000		
BM (30°-60°)	1152.6	12.5	B2/2500		
BH (60°-80°)	159.2	1.7	B1/500		G1/500
BVH (80°-90°)	7.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	1759.9	1759.9	1759.9	1759.9	1759.9	1759.9	1759.9	1759.9	1759.9	1759.9	1759.9
2.5°	1791.8	1783.4	1783.4	1769.9	1785.0	1778.3	1783.4	1766.6	1783.4	1758.2	1778.3
5°	1800.1	1801.8	1795.1	1803.5	1803.5	1813.6	1796.8	1811.9	1820.3	1801.8	1793.4
7.5°	1843.8	1847.1	1845.4	1838.7	1852.1	1850.5	1848.8	1837.1	1840.4	1833.7	1823.6
10°	1929.3	1927.6	1936.0	1919.3	1909.2	1920.9	1924.3	1905.8	1892.4	1887.4	1855.5
12.5°	2053.5	2033.3	2021.6	2004.8	2009.9	1993.1	2023.3	1991.4	1984.7	1954.5	1922.6
15°	2154.1	2150.8	2152.5	2125.6	2095.4	2102.1	2102.1	2085.3	2075.3	2038.4	1993.1
17.5°	2360.5	2290.0	2305.1	2271.6	2246.4	2244.7	2229.6	2233.0	2206.1	2129.0	2060.2
20°	2521.5	2491.3	2467.9	2410.8	2372.2	2384.0	2377.3	2360.5	2352.1	2251.4	2154.1
22.5°	2665.8	2675.9	2637.3	2622.2	2568.5	2573.5	2587.0	2571.9	2508.1	2404.1	2259.8
25°	2868.8	2857.1	2805.1	2786.6	2736.3	2754.7	2806.7	2795.0	2754.7	2566.8	2342.0
27.5°	3108.7	3068.5	3078.5	2994.6	2946.0	2998.0	3060.1	3118.8	3004.7	2758.1	2439.3
30°	3278.2	3236.2	3232.9	3229.5	3217.8	3278.2	3350.3	3404.0	3311.7	2949.3	2600.4
32.5°	3362.1	3372.1	3400.6	3390.6	3492.9	3617.1	3692.6	3769.7	3654.0	3261.4	2813.5
35°	3585.2	3521.4	3585.2	3591.9	3697.6	3961.0	4056.6	4241.2	4212.6	3702.6	3073.5
37.5°	3716.0	3711.0	3719.4	3783.2	3885.5	4211.0	4346.8	4489.5	4435.8	3967.7	3397.3
40°	3932.5	3945.9	3944.2	3992.9	4105.3	4398.9	4454.2	4570.0	4575.0	4335.1	3873.7
42.5°	4279.7	4226.1	4190.8	4241.2	4398.9	4561.6	4672.3	4648.8	4814.9	4781.4	4486.1
45°	4591.8	4623.7	4571.7	4655.5	4712.6	4799.8	4796.5	4846.8	5058.2	5217.6	4947.5
47.5°	4883.7	4903.8	4929.0	4986.0	5110.2	5123.6	5095.1	5073.3	5365.2	5529.6	5304.8
50°	5058.2	5076.6	5194.1	5296.4	5527.9	5558.1	5574.9	5519.5	5717.5	5736.0	5642.0
52.5°	5011.2	5031.3	5195.8	5533.0	5902.1	6178.9	6128.5	6034.6	6022.8	6095.0	5954.1
55°	4595.1	4576.7	4803.2	5328.3	6019.5	6683.8	6690.6	6591.6	6402.0	6353.3	5907.1
56°	4241.2	4169.0	4457.6	5091.7	5868.5	6640.2	6715.7	6610.0	6432.2	6214.1	5616.8
57.5°	3474.5	3543.2	3830.1	4355.2	5346.7	6326.5	6370.1	6345.0	6210.7	5845.0	4942.4
60°	1915.9	2036.7	2290.0	2932.6	3806.6	4855.2	4890.4	5095.1	5120.3	4476.0	3400.6
62.5°	813.7	800.2	1063.6	1536.7	2167.6	2930.9	2996.3	3206.0	3244.6	2580.3	1706.2
65°	330.5	349.0	481.5	773.4	1145.9	1335.4	1427.7	1496.5	1624.0	1065.3	629.1
67.5°	218.1	216.4	283.5	441.2	617.4	595.6	595.6	629.1	582.2	434.5	271.8
70°	156.0	161.1	203.0	305.3	384.2	285.2	273.5	261.7	296.9	286.9	219.8
72.5°	102.3	109.0	135.9	182.9	199.6	156.0	156.0	187.9	244.9	231.5	179.5
75°	67.1	68.8	83.9	105.7	99.0	80.5	88.9	125.8	177.8	171.1	127.5
77.5°	45.3	47.0	57.0	68.8	55.4	45.3	48.7	63.8	87.2	87.2	67.1
80°	16.8	18.5	23.5	21.8	25.2	31.9	35.2	43.6	52.0	52.0	45.3
82.5°	0.0	1.7	5.0	11.7	18.5	25.2	28.5	33.6	38.6	43.6	41.9
85°	0.0	1.7	5.0	8.4	13.4	15.1	16.8	11.7	10.1	10.1	8.4
87.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	3.4	1.7	1.7
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°	1759.9	1759.9	1759.9	1759.9	1759.9	1759.9	1759.9	1759.9	1759.9	1759.9	1759.9
2.5°	1759.9	1758.2	1758.2	1753.2	1763.2	1758.2	1761.6	1759.9	1738.1	1754.8	1743.1
5°	1778.3	1790.1	1771.6	1768.3	1754.8	1759.9	1759.9	1743.1	1758.2	1756.5	1753.2
7.5°	1825.3	1805.2	1785.0	1764.9	1761.6	1756.5	1738.1	1731.4	1743.1	1729.7	1749.8
10°	1845.4	1848.8	1818.6	1791.8	1766.6	1731.4	1706.2	1691.1	1672.6	1692.8	1704.5
12.5°	1937.7	1904.2	1852.1	1810.2	1724.6	1689.4	1664.3	1657.5	1689.4	1696.1	1684.4
15°	1969.6	1964.6	1897.4	1803.5	1714.6	1672.6	1677.7	1664.3	1667.6	1650.8	1654.2
17.5°	2035.0	1978.0	1899.1	1781.7	1712.9	1702.8	1672.6	1619.0	1588.8	1575.3	1587.1
20°	2107.2	2051.8	1937.7	1790.1	1728.0	1701.2	1602.2	1536.7	1474.7	1441.1	1442.8
22.5°	2170.9	2102.1	1920.9	1793.4	1741.4	1630.7	1511.6	1382.4	1305.2	1253.2	1254.9
25°	2248.1	2150.8	1927.6	1800.1	1706.2	1518.3	1347.2	1221.3	1129.1	1093.8	1105.6
27.5°	2291.7	2181.0	1964.6	1815.2	1613.9	1358.9	1174.4	1056.9	1003.2	986.5	984.8
30°	2422.6	2248.1	2009.9	1785.0	1459.6	1187.8	1016.7	944.5	892.5	877.4	880.8
32.5°	2617.2	2370.6	2068.6	1706.2	1301.9	1035.1	914.3	860.6	812.0	783.5	780.1
35°	2779.9	2580.3	2130.6	1583.7	1119.0	917.7	842.2	775.1	701.3	669.4	661.0
37.5°	3090.3	2816.8	2117.2	1399.2	944.5	830.4	765.0	682.8	619.1	575.4	570.4
40°	3503.0	3093.6	2051.8	1174.4	815.3	753.3	682.8	604.0	525.1	488.2	484.8
42.5°	4004.6	3432.5	1932.7	946.2	686.2	676.1	612.4	521.8	451.3	424.5	426.1
45°	4412.3	3722.8	1811.9	760.0	590.5	600.6	545.2	459.7	411.0	389.2	389.2
47.5°	4774.7	3919.0	1681.0	627.4	501.6	525.1	476.5	426.1	384.2	367.4	364.1
50°	5123.6	4118.7	1550.2	508.3	427.8	451.3	446.3	406.0	372.4	352.3	354.0
52.5°	5341.7	4150.6	1384.1	416.1	374.1	401.0	417.7	380.8	343.9	332.2	328.8
55°	5075.0	3739.5	1073.7	342.2	317.1	352.3	384.2	342.2	313.7	293.6	291.9
56°	4715.9	3343.6	897.6	315.4	300.3	338.9	372.4	327.1	295.3	283.5	275.1
57.5°	3992.9	2736.3	662.7	280.2	278.5	315.4	354.0	312.0	275.1	265.1	265.1
60°	2489.7	1540.1	401.0	234.9	241.6	280.2	318.8	278.5	244.9	244.9	250.0
62.5°	1134.1	640.9	243.3	199.6	208.0	241.6	283.5	251.7	233.2	251.7	255.0
65°	385.9	276.8	176.2	159.4	164.4	199.6	243.3	255.0	253.3	265.1	271.8
67.5°	216.4	177.8	147.6	132.5	129.2	147.6	199.6	255.0	244.9	239.9	243.3
70°	182.9	151.0	130.9	117.4	112.4	119.1	154.3	192.9	172.8	167.8	164.4
72.5°	147.6	125.8	114.1	105.7	90.6	77.2	70.5	73.8	82.2	87.2	95.6
75°	104.0	95.6	95.6	85.6	65.4	48.7	38.6	31.9	21.8	15.1	16.8
77.5°	58.7	58.7	60.4	52.0	41.9	31.9	23.5	16.8	8.4	3.4	1.7
80°	40.3	43.6	47.0	41.9	35.2	28.5	20.1	11.7	5.0	0.0	0.0
82.5°	40.3	45.3	48.7	41.9	35.2	26.8	20.1	11.7	5.0	1.7	0.0
85°	8.4	10.1	11.7	13.4	20.1	20.1	15.1	10.1	5.0	1.7	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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)