

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: P529101

Luminaire Tested: **GALN-SA4B-727-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529101  
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-SA4B-727-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 800mA 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: 11242 lumens  
Efficiency: N/A  
Efficacy: 68.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

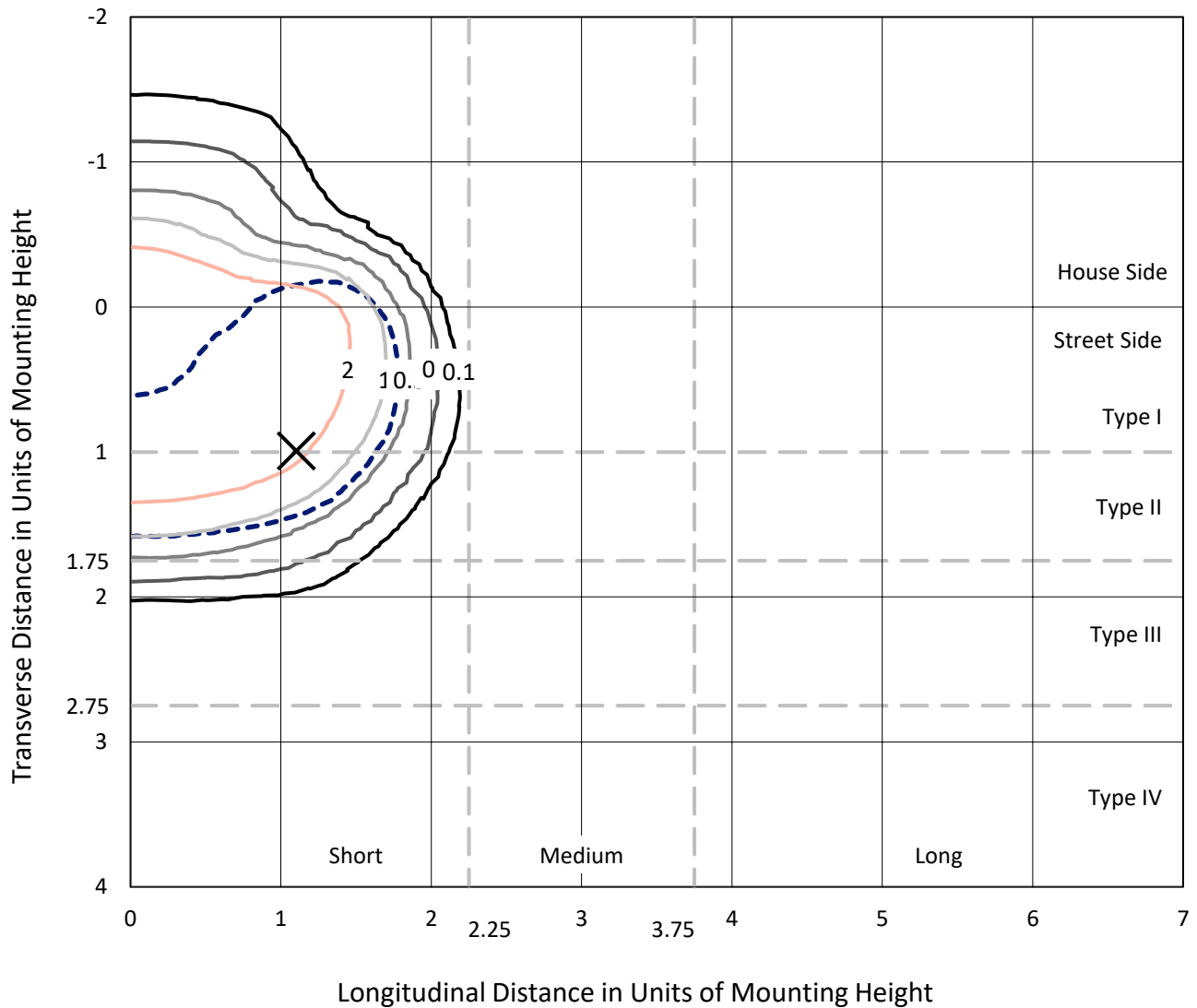
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

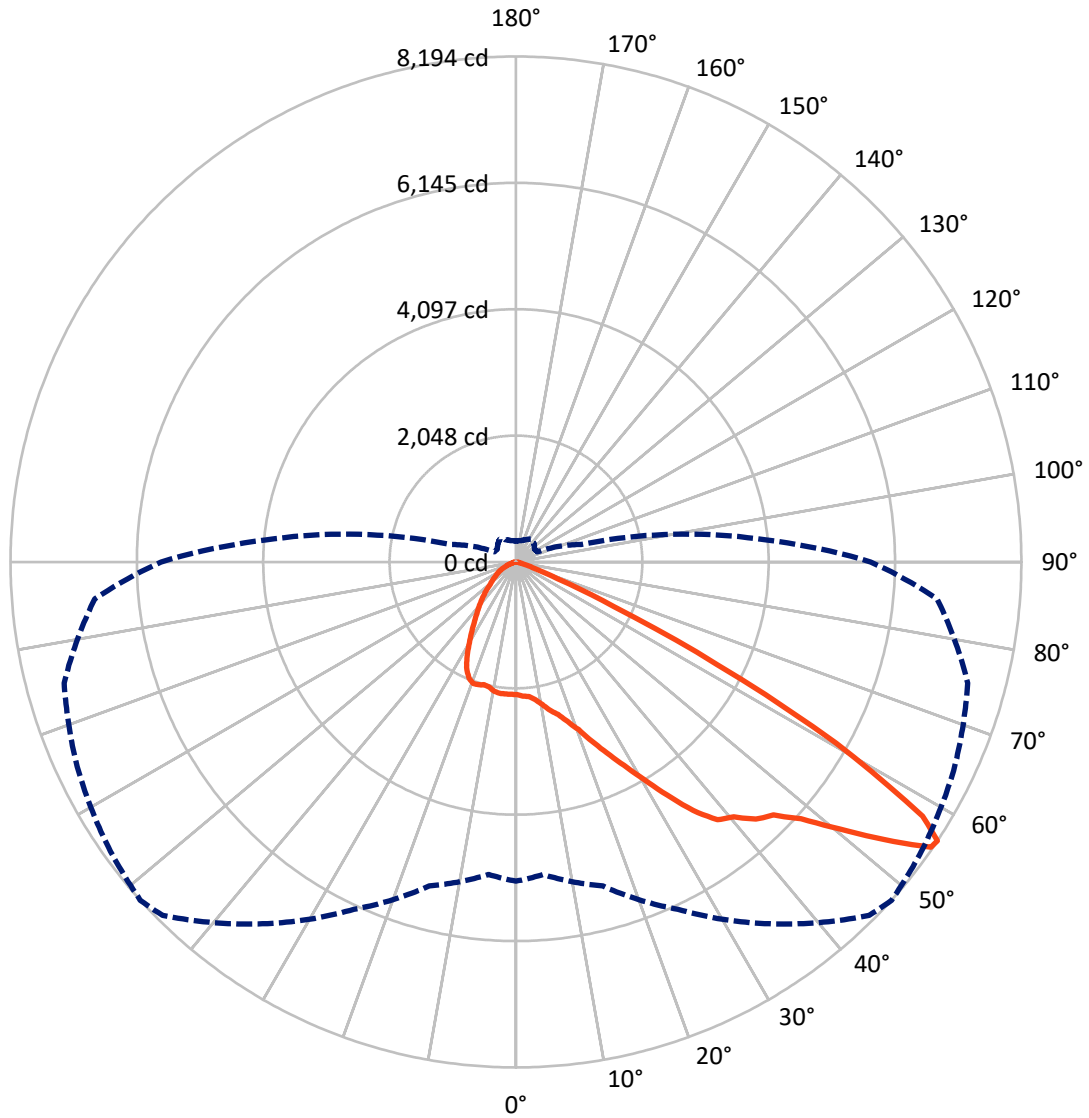
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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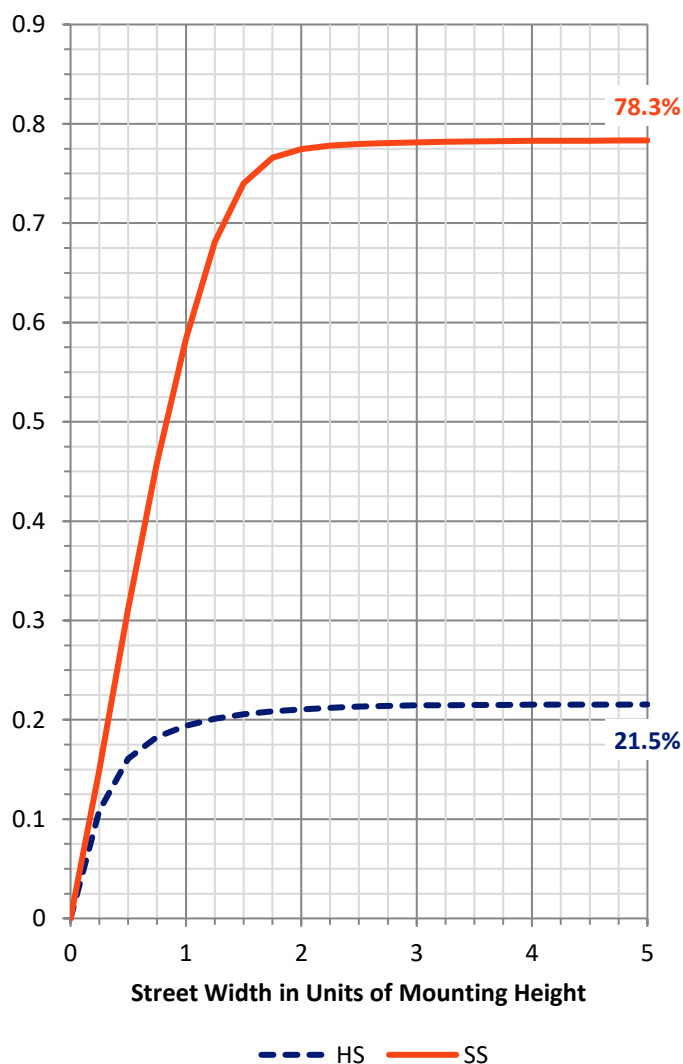
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2444.9	0.0	2444.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	8797.1	0.0	8797.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	11242.0	0.0	11242.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.2	1.9
10°-20°	668.4	5.9
20°-30°	1212.4	10.8
30°-40°	1904.5	16.9
40°-50°	2778.3	24.7
50°-60°	3347.3	29.8
60°-70°	980.1	8.7
70°-80°	124.3	1.1
80°-90°	17.4	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°	11242.0	100.0
0°-180°	11242.0	100.0

**Coefficient of Utilization**

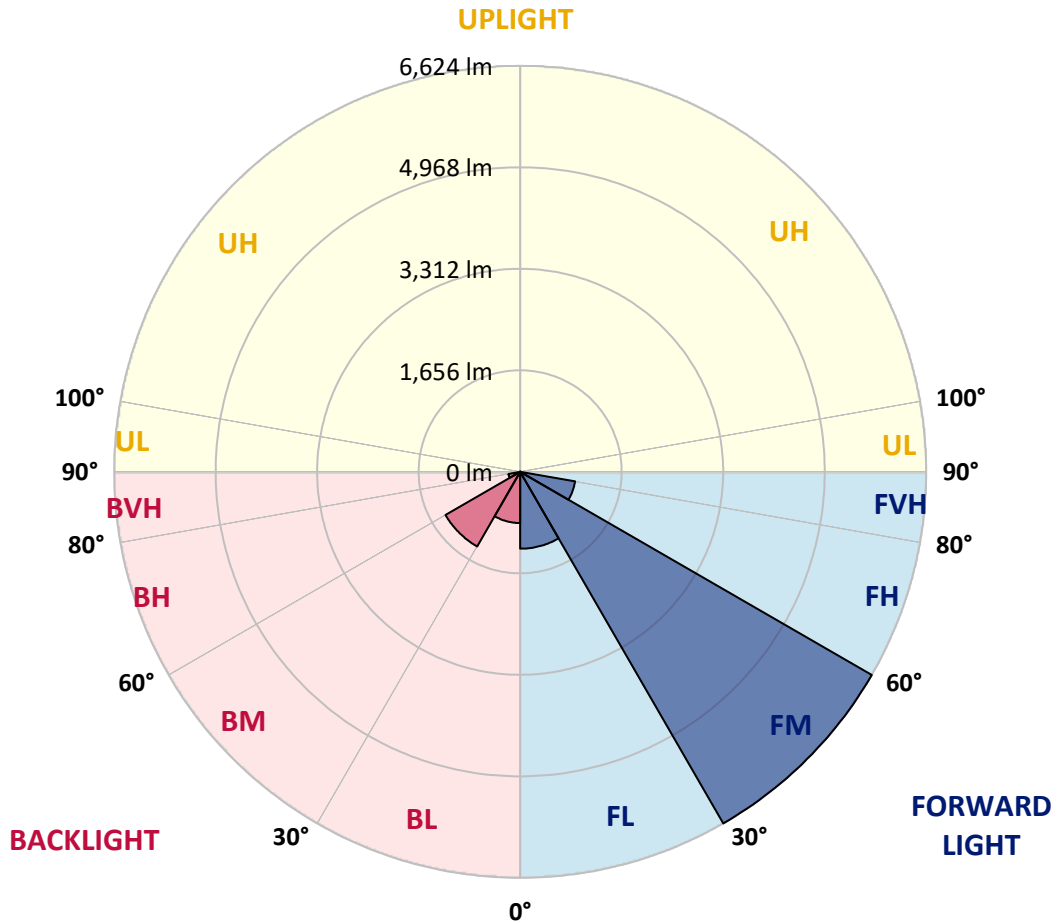


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1254.4	11.2			
FM (30°-60°)	6623.8	58.9			
FH (60°-80°)	910.1	8.1			G1/1800
FVH (80°-90°)	8.7	0.1			G0/10
BL (0°-30°)	835.7	7.4	B2/1000		
BM (30°-60°)	1406.3	12.5	B2/2500		
BH (60°-80°)	194.3	1.7	B1/500		G1/500
BVH (80°-90°)	8.7	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°	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2
2.5°	2186.1	2175.9	2175.9	2159.5	2177.9	2169.7	2175.9	2155.4	2175.9	2145.2	2169.7
5°	2196.4	2198.4	2190.2	2200.4	2200.4	2212.7	2192.3	2210.7	2220.9	2198.4	2188.2
7.5°	2249.6	2253.7	2251.6	2243.4	2259.8	2257.8	2255.7	2241.4	2245.5	2237.3	2225.0
10°	2354.0	2351.9	2362.2	2341.7	2329.4	2343.7	2347.8	2325.3	2308.9	2302.8	2263.9
12.5°	2505.4	2480.9	2466.5	2446.1	2452.2	2431.7	2468.6	2429.7	2421.5	2384.7	2345.8
15°	2628.3	2624.2	2626.2	2593.5	2556.6	2564.8	2564.8	2544.3	2532.0	2487.0	2431.7
17.5°	2880.0	2794.1	2812.5	2771.5	2740.8	2738.8	2720.4	2724.5	2691.7	2597.6	2513.6
20°	3076.5	3039.7	3011.0	2941.4	2894.4	2908.7	2900.5	2880.0	2869.8	2747.0	2628.3
22.5°	3252.6	3264.8	3217.8	3199.3	3133.8	3140.0	3156.4	3137.9	3060.2	2933.2	2757.2
25°	3500.2	3485.9	3422.5	3399.9	3338.5	3361.1	3424.5	3410.2	3361.1	3131.8	2857.5
27.5°	3793.0	3743.8	3756.1	3653.8	3594.4	3657.9	3733.6	3805.2	3666.0	3365.1	2976.2
30°	3999.7	3948.5	3944.4	3940.3	3926.0	3999.7	4087.7	4153.2	4040.6	3598.5	3172.7
32.5°	4102.0	4114.3	4149.1	4136.8	4261.7	4413.2	4505.3	4599.4	4458.2	3979.2	3432.7
35°	4374.3	4296.5	4374.3	4382.5	4511.4	4832.8	4949.5	5174.6	5139.8	4517.6	3750.0
37.5°	4533.9	4527.8	4538.0	4615.8	4740.7	5137.8	5303.6	5477.6	5412.1	4841.0	4145.0
40°	4798.0	4814.4	4812.3	4871.7	5008.8	5367.0	5434.6	5575.8	5582.0	5289.3	4726.4
42.5°	5221.7	5156.2	5113.2	5174.6	5367.0	5565.6	5700.7	5672.0	5874.7	5833.7	5473.5
45°	5602.4	5641.3	5577.9	5680.2	5749.8	5856.3	5852.2	5913.6	6171.5	6365.9	6036.4
47.5°	5958.6	5983.2	6013.9	6083.5	6234.9	6251.3	6216.5	6189.9	6546.1	6746.7	6472.4
50°	6171.5	6194.0	6337.3	6462.1	6744.6	6781.5	6801.9	6734.4	6975.9	6998.4	6883.8
52.5°	6114.2	6138.7	6339.3	6750.8	7201.1	7538.8	7477.4	7362.8	7348.5	7436.5	7264.5
55°	5606.5	5584.0	5860.4	6501.0	7344.4	8155.0	8163.1	8042.4	7811.1	7751.7	7207.2
56°	5174.6	5086.6	5438.7	6212.4	7160.2	8101.7	8193.9	8064.9	7847.9	7581.8	6853.1
57.5°	4239.2	4323.1	4673.1	5313.8	6523.6	7719.0	7772.2	7741.5	7577.7	7131.5	6030.2
60°	2337.6	2485.0	2794.1	3578.0	4644.5	5923.8	5966.8	6216.5	6247.2	5461.2	4149.1
62.5°	992.8	976.4	1297.8	1875.0	2644.6	3576.0	3655.8	3911.7	3958.8	3148.2	2081.7
65°	403.2	425.8	587.5	943.6	1398.1	1629.4	1741.9	1825.9	1981.4	1299.8	767.6
67.5°	266.1	264.1	345.9	538.3	753.3	726.7	726.7	767.6	710.3	530.2	331.6
70°	190.4	196.5	247.7	372.5	468.7	348.0	333.6	319.3	362.3	350.0	268.1
72.5°	124.9	133.1	165.8	223.1	243.6	190.4	190.4	229.3	298.9	282.5	219.0
75°	81.9	83.9	102.3	129.0	120.8	98.3	108.5	153.5	217.0	208.8	155.6
77.5°	55.3	57.3	69.6	83.9	67.5	55.3	59.4	77.8	106.4	106.4	81.9
80°	20.5	22.5	28.7	26.6	30.7	38.9	43.0	53.2	63.5	63.5	55.3
82.5°	0.0	2.0	6.1	14.3	22.5	30.7	34.8	40.9	47.1	53.2	51.2
85°	0.0	2.0	6.1	10.2	16.4	18.4	20.5	14.3	12.3	12.3	10.2
87.5°	0.0	0.0	2.0	2.0	2.0	2.0	2.0	2.0	4.1	2.0	2.0
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°	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2	2147.2
2.5°	2147.2	2145.2	2145.2	2139.0	2151.3	2145.2	2149.3	2147.2	2120.6	2141.1	2126.8
5°	2169.7	2184.1	2161.6	2157.5	2141.1	2147.2	2147.2	2126.8	2145.2	2143.1	2139.0
7.5°	2227.1	2202.5	2177.9	2153.4	2149.3	2143.1	2120.6	2112.4	2126.8	2110.4	2134.9
10°	2251.6	2255.7	2218.9	2186.1	2155.4	2112.4	2081.7	2063.3	2040.8	2065.3	2079.7
12.5°	2364.2	2323.3	2259.8	2208.6	2104.2	2061.3	2030.6	2022.4	2061.3	2069.4	2055.1
15°	2403.1	2397.0	2315.1	2200.4	2092.0	2040.8	2046.9	2030.6	2034.6	2014.2	2018.3
17.5°	2482.9	2413.3	2317.1	2173.8	2089.9	2077.6	2040.8	1975.3	1938.4	1922.1	1936.4
20°	2570.9	2503.4	2364.2	2184.1	2108.3	2075.6	1954.8	1875.0	1799.2	1758.3	1760.4
22.5°	2648.7	2564.8	2343.7	2188.2	2124.7	1989.6	1844.3	1686.7	1592.5	1529.1	1531.1
25°	2742.9	2624.2	2351.9	2196.4	2081.7	1852.5	1643.7	1490.2	1377.6	1334.6	1348.9
27.5°	2796.1	2661.0	2397.0	2214.8	1969.1	1658.0	1432.8	1289.6	1224.1	1203.6	1201.5
30°	2955.8	2742.9	2452.2	2177.9	1780.8	1449.2	1240.4	1152.4	1089.0	1070.5	1074.6
32.5°	3193.2	2892.3	2523.9	2081.7	1588.4	1263.0	1115.6	1050.1	990.7	955.9	951.8
35°	3391.8	3148.2	2599.6	1932.3	1365.3	1119.7	1027.6	945.7	855.6	816.7	806.5
37.5°	3770.4	3436.8	2583.2	1707.1	1152.4	1013.2	933.4	833.1	755.3	702.1	696.0
40°	4274.0	3774.5	2503.4	1432.8	994.8	919.1	833.1	736.9	640.7	595.7	591.6
42.5°	4886.0	4188.0	2358.1	1154.5	837.2	824.9	747.1	636.6	550.6	517.9	519.9
45°	5383.4	4542.1	2210.7	927.3	720.5	732.8	665.3	560.9	501.5	474.9	474.9
47.5°	5825.6	4781.6	2051.0	765.6	612.0	640.7	581.3	519.9	468.7	448.3	444.2
50°	6251.3	5025.2	1891.4	620.2	522.0	550.6	544.5	495.4	454.4	429.9	431.9
52.5°	6517.4	5064.1	1688.7	507.6	456.5	489.2	509.7	464.7	419.6	405.3	401.2
55°	6192.0	4562.6	1310.0	417.6	386.9	429.9	468.7	417.6	382.8	358.2	356.2
56°	5753.9	4079.5	1095.1	384.8	366.4	413.5	454.4	399.2	360.3	345.9	335.7
57.5°	4871.7	3338.5	808.5	341.8	339.8	384.8	431.9	380.7	335.7	323.4	323.4
60°	3037.6	1879.1	489.2	286.6	294.8	341.8	388.9	339.8	298.9	298.9	305.0
62.5°	1383.7	781.9	296.8	243.6	253.8	294.8	345.9	307.0	284.5	307.0	311.1
65°	470.8	337.7	214.9	194.5	200.6	243.6	296.8	311.1	309.1	323.4	331.6
67.5°	264.1	217.0	180.1	161.7	157.6	180.1	243.6	311.1	298.9	292.7	296.8
70°	223.1	184.2	159.7	143.3	137.1	145.3	188.3	235.4	210.8	204.7	200.6
72.5°	180.1	153.5	139.2	129.0	110.5	94.2	86.0	90.1	100.3	106.4	116.7
75°	126.9	116.7	116.7	104.4	79.8	59.4	47.1	38.9	26.6	18.4	20.5
77.5°	71.6	71.6	73.7	63.5	51.2	38.9	28.7	20.5	10.2	4.1	2.0
80°	49.1	53.2	57.3	51.2	43.0	34.8	24.6	14.3	6.1	0.0	0.0
82.5°	49.1	55.3	59.4	51.2	43.0	32.8	24.6	14.3	6.1	2.0	0.0
85°	10.2	12.3	14.3	16.4	24.6	24.6	18.4	12.3	6.1	2.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	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)