

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: P527477

Luminaire Tested: **GALN-SA2C-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-730-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7515 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

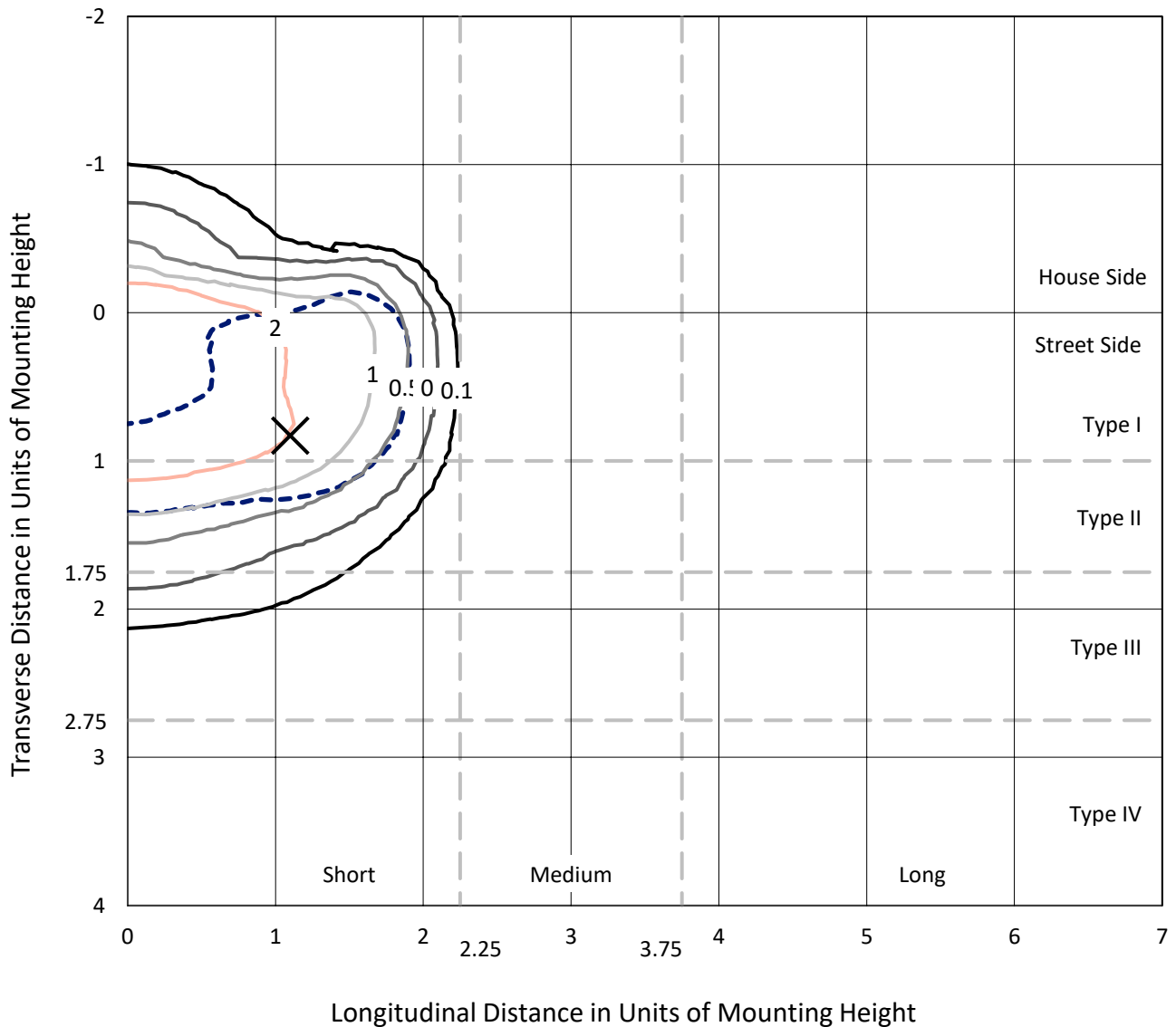
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

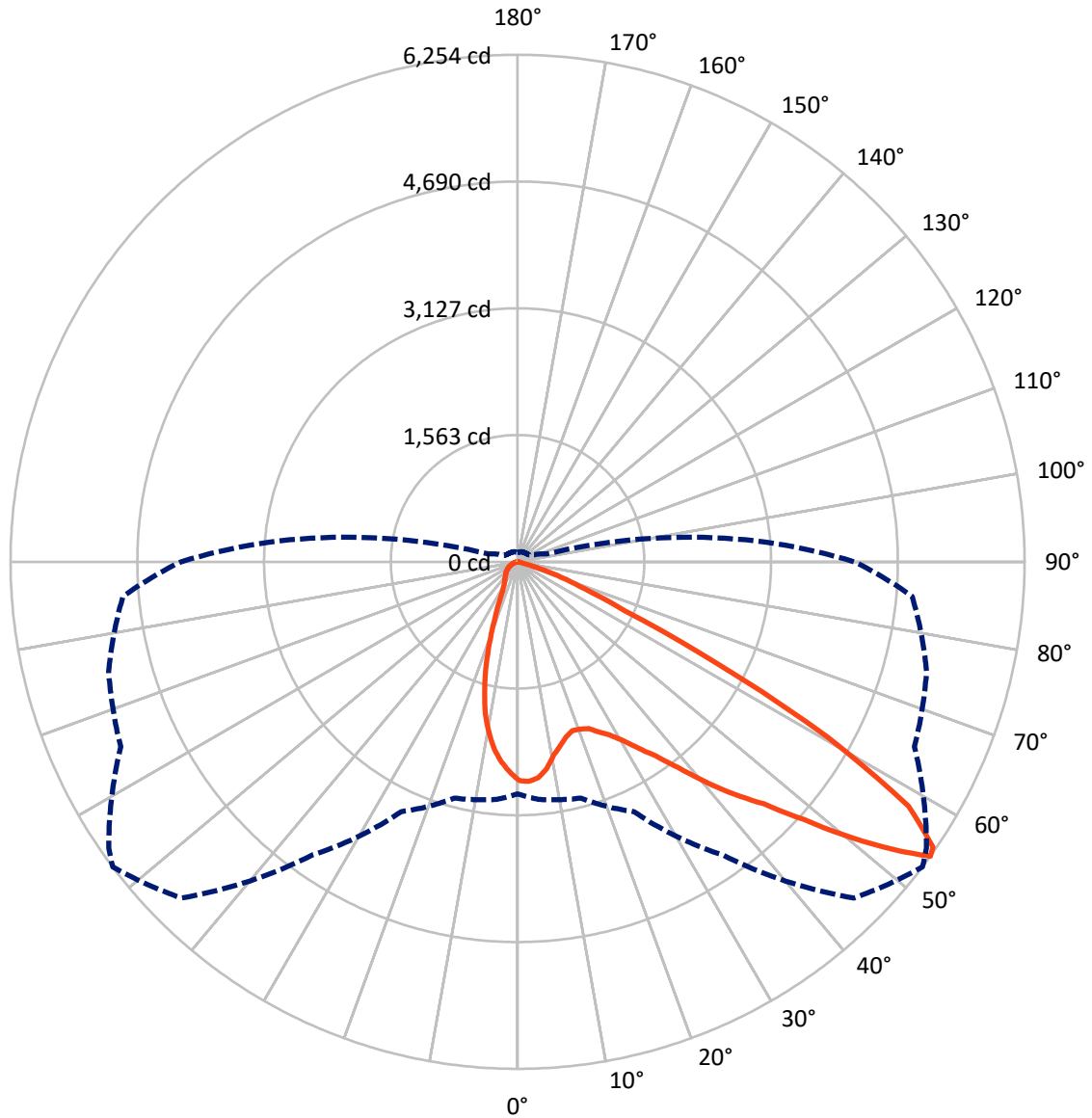
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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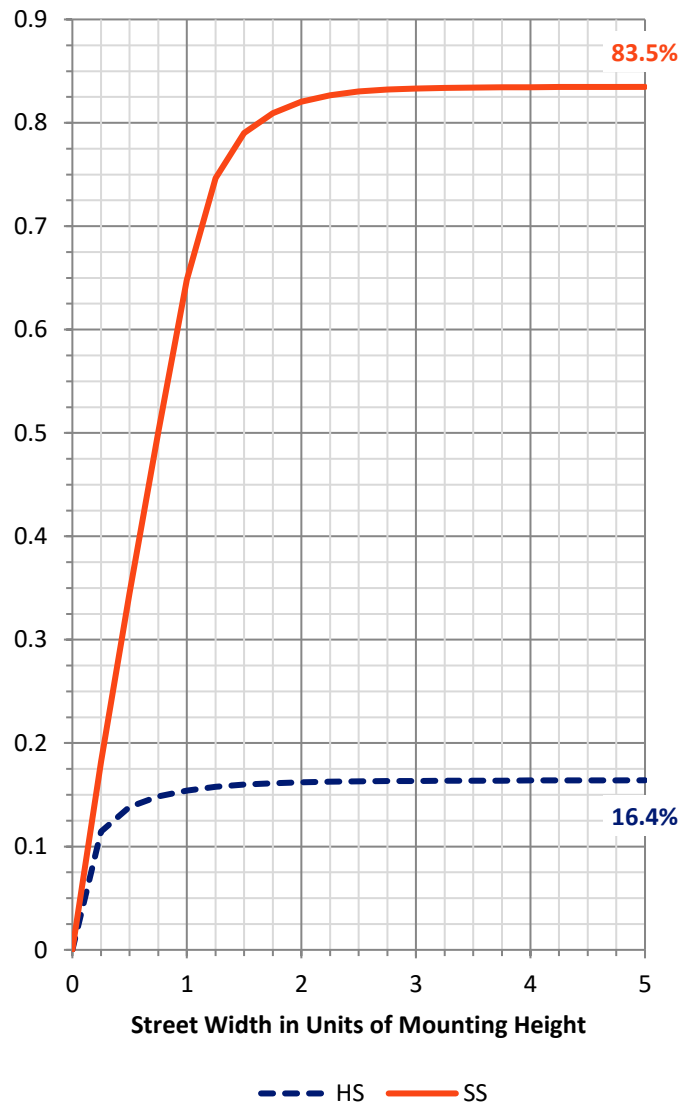
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1243.4	0.0	1243.4
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	6271.6	0.0	6271.6
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	7515.0	0.0	7515.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.6	3.1
10°-20°	531.0	7.1
20°-30°	754.6	10.0
30°-40°	1164.6	15.5
40°-50°	1825.9	24.3
50°-60°	2121.1	28.2
60°-70°	801.5	10.7
70°-80°	76.2	1.0
80°-90°	8.6	0.1
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°	7515.0	100.0
0°-180°	7515.0	100.0

**Coefficient of Utilization**

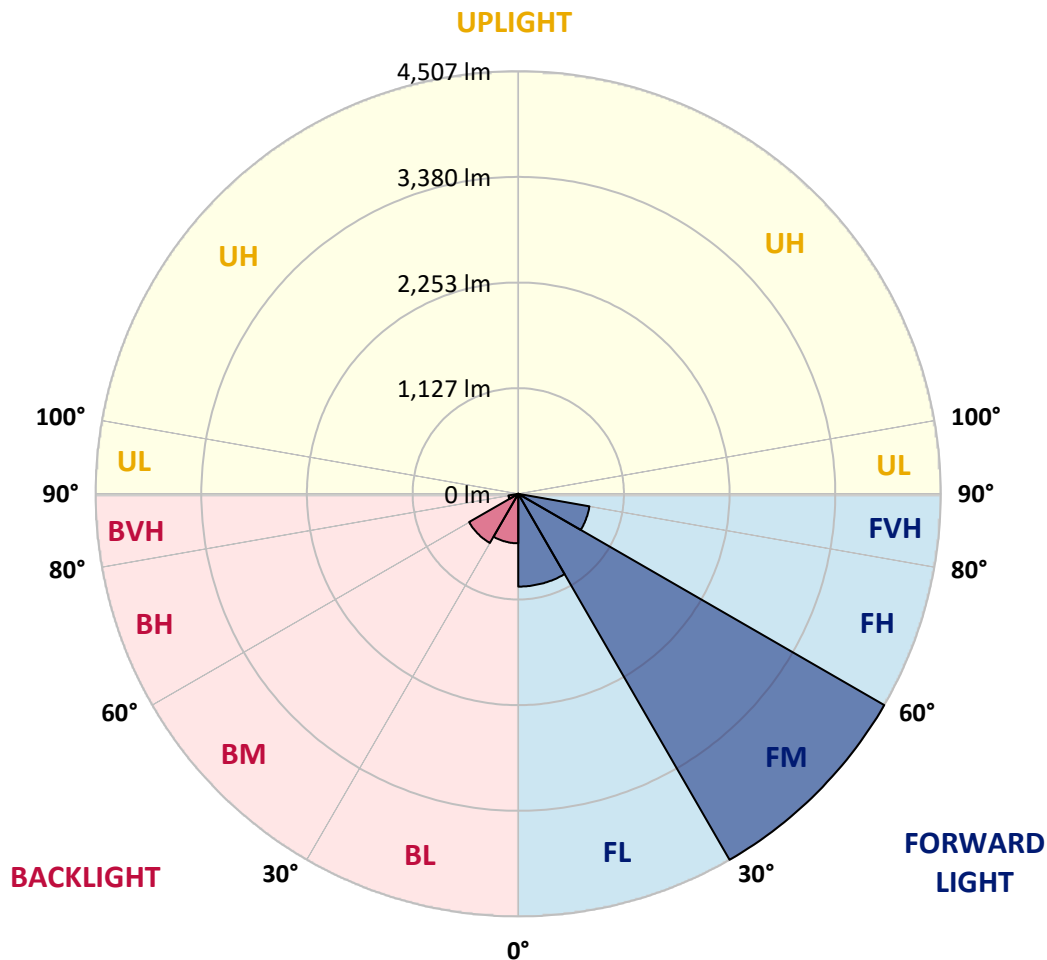


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.5	13.2			
FM (30°-60°)	4506.5	60.0			
FH (60°-80°)	771.1	10.3			G1/1800
FVH (80°-90°)	4.4	0.1			G0/10
BL (0°-30°)	527.6	7.0	B2/1000		
BM (30°-60°)	605.1	8.1	B1/1000		
BH (60°-80°)	106.5	1.4	B0/110		G0/110
BVH (80°-90°)	4.1	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°	53°	55°	65°	75°	85°
0°	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3
2.5°	2685.3	2661.5	2685.3	2688.1	2704.9	2720.3	2710.5	2732.9	2720.3	2706.3	2702.1
5°	2468.3	2500.5	2501.9	2552.3	2541.1	2633.5	2674.1	2662.9	2731.5	2727.3	2717.5
7.5°	2273.7	2261.1	2277.9	2336.7	2410.9	2517.3	2576.1	2574.7	2672.7	2742.7	2735.7
10°	2093.0	2091.6	2126.6	2172.8	2235.9	2347.9	2429.1	2469.7	2622.3	2728.7	2744.1
12.5°	1971.2	1965.6	2003.4	2041.2	2140.6	2227.5	2331.1	2350.7	2525.7	2679.7	2704.9
15°	1891.4	1904.0	1906.8	1979.6	2042.6	2157.4	2238.7	2279.3	2480.9	2640.5	2737.1
17.5°	1877.4	1894.2	1895.6	1955.8	2023.0	2119.6	2191.0	2245.7	2443.1	2660.1	2738.5
20°	1905.4	1895.6	1904.0	1941.8	2007.6	2100.0	2203.7	2221.9	2430.5	2669.9	2753.9
22.5°	1985.2	1982.4	1961.4	1992.2	2038.4	2135.0	2233.1	2261.1	2466.9	2720.3	2766.5
25°	2073.4	2088.8	2069.2	2065.0	2097.2	2192.4	2322.7	2359.1	2588.7	2811.3	2805.7
27.5°	2238.7	2223.3	2223.3	2203.7	2195.2	2241.5	2419.3	2479.5	2724.5	2928.9	2850.5
30°	2396.9	2413.7	2401.1	2408.1	2352.1	2347.9	2556.5	2630.7	2965.3	3108.1	2945.7
32.5°	2647.5	2625.1	2646.1	2627.9	2553.7	2478.1	2742.7	2819.7	3256.5	3313.9	3088.5
35°	2856.1	2846.3	2935.9	2933.1	2812.7	2738.5	2940.1	3054.9	3459.5	3560.3	3256.5
37.5°	3152.9	3134.7	3236.9	3285.9	3178.1	3067.5	3222.9	3355.9	3648.5	3757.7	3428.7
40°	3458.1	3504.3	3641.5	3722.7	3607.9	3460.9	3568.7	3609.3	3774.5	3886.5	3546.3
42.5°	3844.5	3911.7	4051.7	4121.7	4111.9	3952.3	3920.1	3918.7	3865.5	3850.1	3633.1
45°	4215.5	4190.3	4405.9	4558.5	4681.7	4635.5	4258.9	4216.9	4009.7	3904.7	3655.5
47.5°	4377.9	4369.5	4516.5	4788.1	5208.1	5265.5	4751.7	4589.3	4253.3	4134.3	3777.3
50°	4167.9	4211.3	4356.9	4657.9	5301.9	5740.1	5356.5	5138.1	4537.5	4414.3	4065.7
52.5°	3481.9	3511.3	3649.9	4032.1	4982.7	6020.1	5936.1	5810.1	5059.7	4855.3	4568.3
54°	2863.1	2941.5	3017.1	3400.7	4414.3	5864.7	6253.9	6157.3	5399.9	5222.1	4884.7
55°	2493.5	2539.7	2594.3	2976.5	4020.9	5601.5	6217.5	6225.9	5628.1	5336.9	5097.5
57.5°	1821.4	1853.6	1797.6	1967.0	2760.9	4548.7	5686.9	5913.7	5936.1	5509.1	5227.7
60°	1391.6	1405.6	1342.6	1369.2	1716.4	3122.1	4398.9	4671.9	5355.1	4814.7	4428.3
62.5°	1079.4	1082.2	1080.8	1127.0	1183.0	1836.8	2751.1	2993.3	3691.9	3418.9	3007.3
65°	795.2	782.6	805.0	945.0	1009.4	1155.0	1449.0	1625.4	2006.2	1694.0	1211.0
67.5°	515.2	519.4	541.8	702.8	865.2	886.2	891.8	877.8	879.2	484.4	303.8
70°	309.4	316.4	309.4	397.6	618.8	635.6	581.0	567.0	442.4	114.8	113.4
72.5°	183.4	173.6	155.4	170.8	257.6	308.0	277.2	275.8	173.6	67.2	67.2
75°	77.0	70.0	57.4	51.8	68.6	65.8	65.8	58.8	46.2	44.8	42.0
77.5°	15.4	15.4	11.2	12.6	16.8	19.6	23.8	23.8	28.0	28.0	26.6
80°	0.0	1.4	4.2	8.4	12.6	18.2	21.0	21.0	23.8	23.8	19.6
82.5°	0.0	1.4	4.2	8.4	11.2	16.8	21.0	21.0	23.8	25.2	21.0
85°	0.0	1.4	4.2	7.0	11.2	14.0	14.0	12.6	9.8	8.4	5.6
87.5°	0.0	0.0	1.4	2.8	1.4	2.8	2.8	2.8	2.8	2.8	2.8
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°	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3	2699.3
2.5°	2711.9	2710.5	2676.9	2622.3	2609.7	2563.5	2557.9	2529.9	2545.3	2493.5	2487.9
5°	2689.5	2672.7	2632.1	2597.1	2494.9	2422.1	2364.7	2294.7	2254.1	2261.1	2234.5
7.5°	2721.7	2678.3	2606.9	2485.1	2360.5	2233.1	2164.4	2021.6	1969.8	1892.8	1881.6
10°	2688.1	2655.9	2545.3	2343.7	2171.4	1988.0	1827.0	1668.8	1548.4	1496.6	1485.4
12.5°	2685.3	2629.3	2444.5	2220.5	1971.2	1708.0	1474.2	1276.8	1157.8	1090.6	1075.2
15°	2641.9	2574.7	2331.1	2030.0	1685.6	1358.0	1103.2	912.8	821.8	782.6	793.8
17.5°	2646.1	2545.3	2217.7	1828.4	1404.2	996.8	753.2	655.2	631.4	641.2	641.2
20°	2641.9	2479.5	2080.4	1596.0	1075.2	691.6	553.0	518.0	533.4	564.2	557.2
22.5°	2619.5	2448.7	1954.4	1351.0	791.0	512.4	443.8	445.2	469.0	506.8	515.2
25°	2636.3	2380.1	1794.8	1103.2	576.8	408.8	385.0	394.8	420.0	448.0	453.6
27.5°	2623.7	2331.1	1628.2	856.8	421.4	351.4	350.0	361.2	372.4	393.4	393.4
30°	2637.7	2286.3	1464.4	637.0	347.2	322.0	316.4	324.8	336.0	340.2	338.8
32.5°	2689.5	2252.7	1275.4	476.0	306.6	294.0	294.0	294.0	292.6	298.2	299.6
35°	2802.9	2258.3	1108.8	368.2	280.0	270.2	266.0	260.4	257.6	260.4	261.8
37.5°	2926.1	2255.5	936.6	313.6	260.4	252.0	242.2	233.8	232.4	235.2	231.0
40°	2980.7	2282.1	777.0	281.4	242.2	232.4	217.0	210.0	211.4	214.2	211.4
42.5°	3054.9	2290.5	673.4	256.2	225.4	210.0	200.2	191.8	190.4	194.6	193.2
45°	3053.5	2242.9	564.2	242.2	210.0	193.2	180.6	173.6	173.6	176.4	177.8
47.5°	3143.1	2235.9	484.4	229.6	198.8	182.0	166.6	161.0	159.6	159.6	156.8
50°	3351.7	2333.9	422.8	215.6	184.8	169.4	156.8	149.8	144.2	141.4	140.0
52.5°	3759.1	2639.1	375.2	198.8	169.4	156.8	145.6	140.0	133.0	126.0	124.6
54°	4153.9	2954.1	372.4	184.8	156.8	148.4	138.6	135.8	127.4	117.6	114.8
55°	4331.7	3137.5	382.2	173.6	148.4	142.8	134.4	131.6	123.2	112.0	110.6
57.5°	4478.7	3208.9	376.6	144.2	134.4	133.0	126.0	121.8	112.0	96.6	93.8
60°	3605.1	2426.3	270.2	127.4	123.2	120.4	114.8	112.0	99.4	82.6	81.2
62.5°	2277.9	1395.8	172.2	112.0	107.8	103.6	96.6	93.8	82.6	65.8	61.6
65°	970.2	578.2	116.2	99.4	92.4	85.4	79.8	75.6	65.8	49.0	47.6
67.5°	252.0	205.8	96.6	86.8	77.0	67.2	63.0	56.0	44.8	33.6	32.2
70°	113.4	103.6	81.2	72.8	61.6	51.8	46.2	39.2	29.4	22.4	21.0
72.5°	67.2	65.8	61.6	54.6	46.2	39.2	33.6	26.6	19.6	12.6	12.6
75°	42.0	40.6	42.0	37.8	32.2	29.4	25.2	18.2	11.2	5.6	5.6
77.5°	25.2	25.2	25.2	23.8	22.4	22.4	18.2	11.2	5.6	1.4	1.4
80°	19.6	19.6	21.0	19.6	19.6	19.6	15.4	8.4	2.8	0.0	0.0
82.5°	19.6	21.0	23.8	22.4	19.6	16.8	14.0	8.4	2.8	0.0	0.0
85°	5.6	4.2	7.0	9.8	14.0	12.6	9.8	7.0	2.8	0.0	0.0
87.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	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)