

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: P651779

Luminaire Tested: **GALN-SA3A-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651779  
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-SA3A-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 615mA 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: 6701.1 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

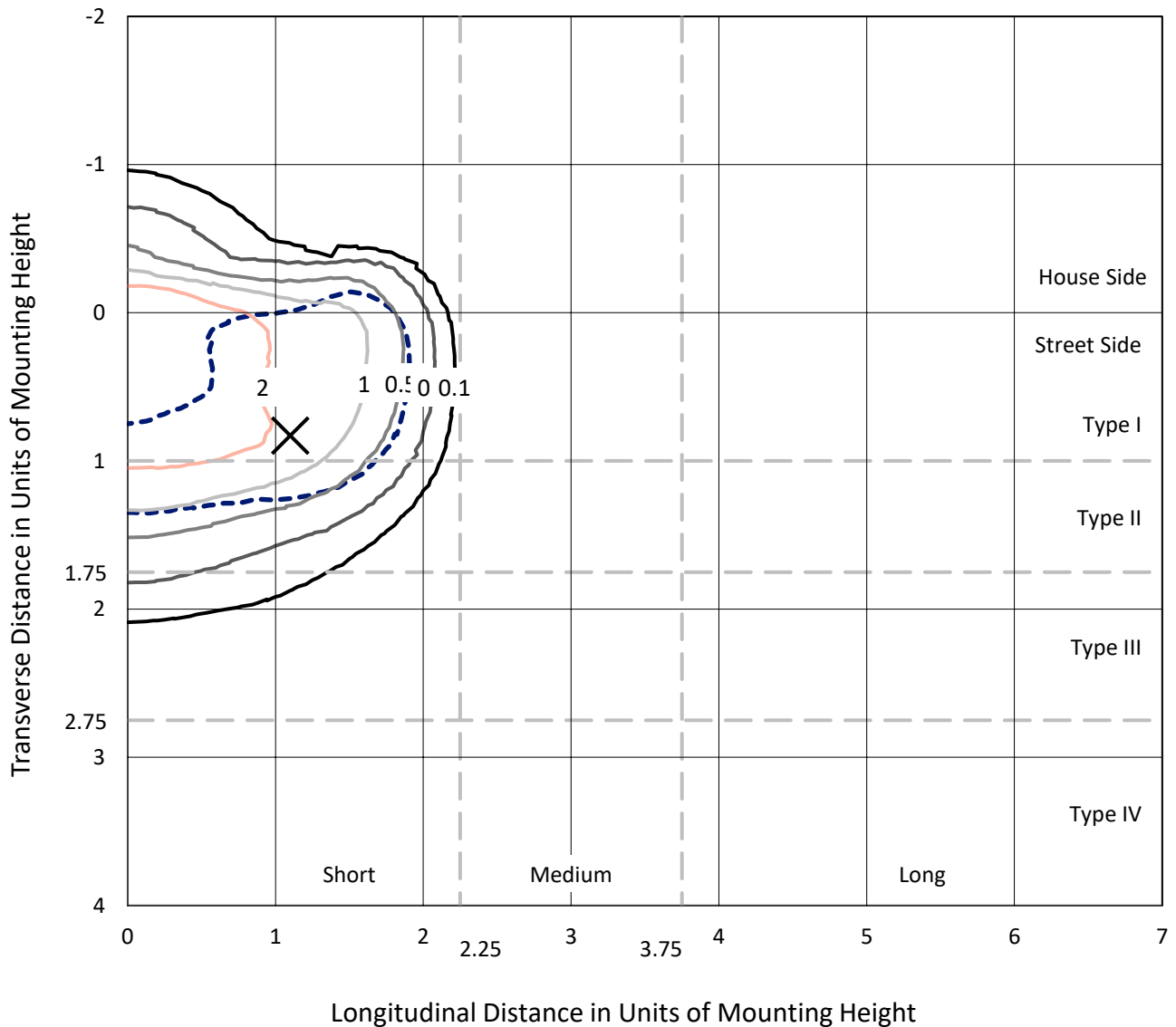
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

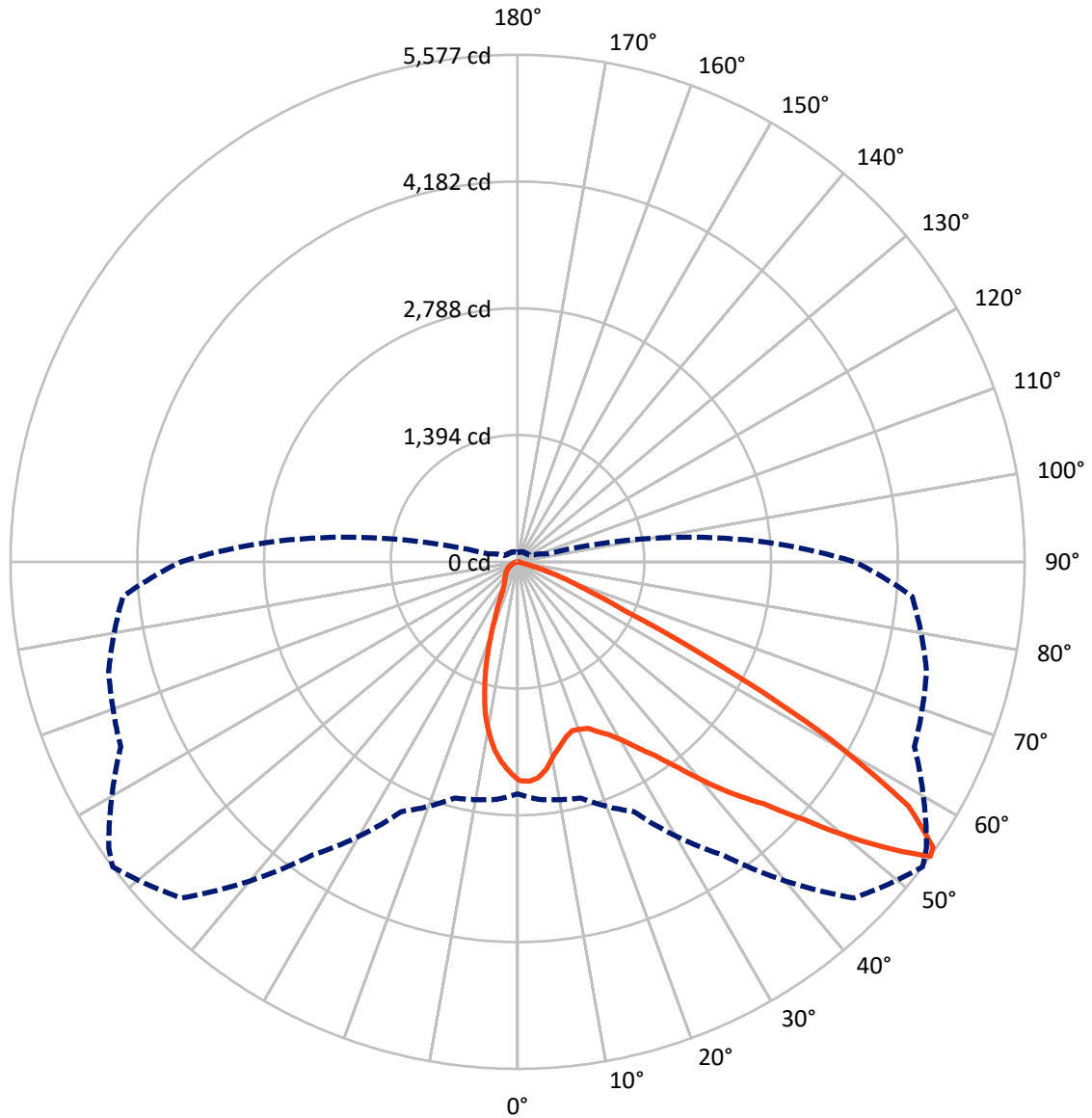
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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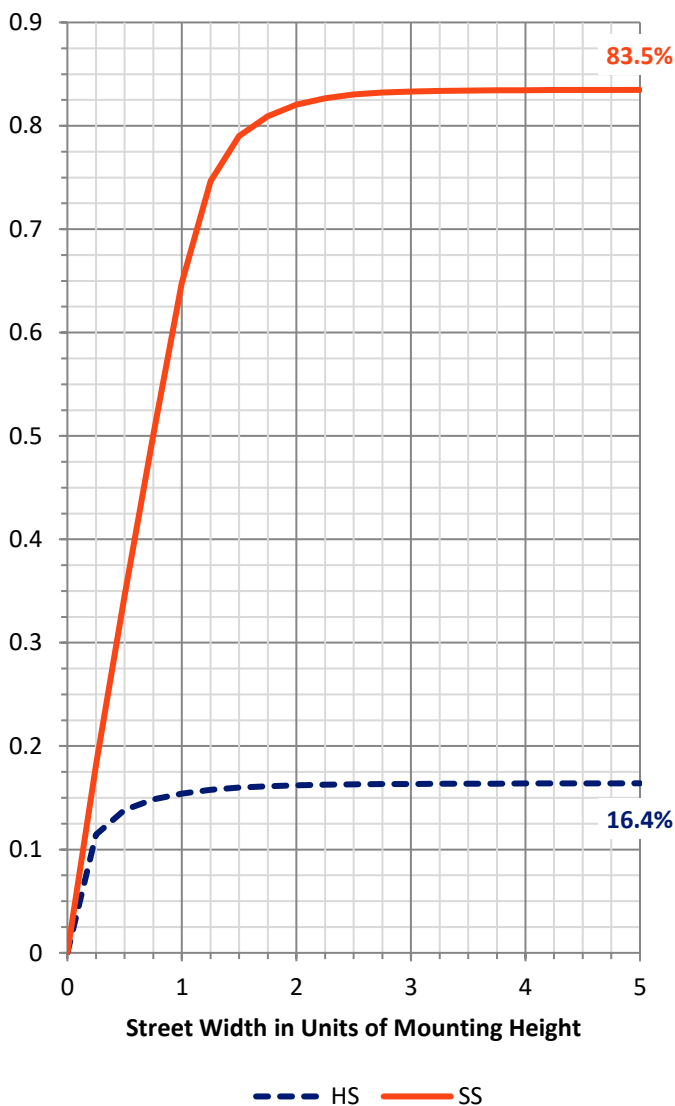
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1108.7	0.0	1108.7
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	5592.4	0.0	5592.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	6701.1	0.0	6701.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.5	3.1
10°-20°	473.5	7.1
20°-30°	672.9	10.0
30°-40°	1038.4	15.5
40°-50°	1628.2	24.3
50°-60°	1891.4	28.2
60°-70°	714.7	10.7
70°-80°	68.0	1.0
80°-90°	7.7	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°	6701.1	100.0
0°-180°	6701.1	100.0

**Coefficient of Utilization**

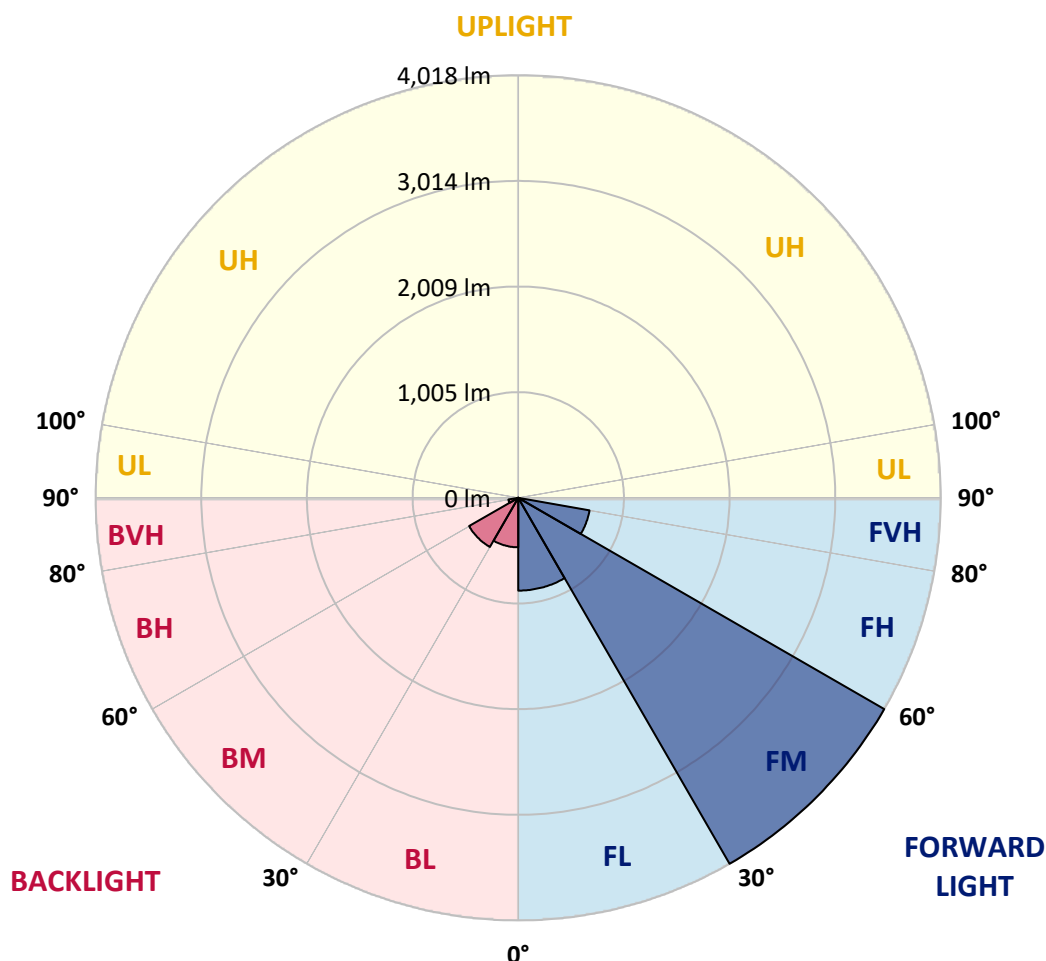


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.4	13.2			
FM (30°-60°)	4018.4	60.0			
FH (60°-80°)	687.6	10.3			G1/1800
FVH (80°-90°)	4.0	0.1			G0/10
BL (0°-30°)	470.5	7.0	B1/500		
BM (30°-60°)	539.5	8.1	B1/1000		
BH (60°-80°)	95.0	1.4	B0/110		G0/110
BVH (80°-90°)	3.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9
2.5°	2394.4	2373.2	2394.4	2396.9	2411.9	2425.6	2416.9	2436.9	2425.6	2413.2	2409.4
5°	2200.9	2229.7	2230.9	2275.8	2265.8	2348.2	2384.5	2374.5	2435.6	2431.9	2423.2
7.5°	2027.4	2016.1	2031.2	2083.6	2149.8	2244.6	2297.0	2295.8	2383.2	2445.6	2439.4
10°	1866.3	1865.1	1896.3	1937.5	1993.7	2093.6	2166.0	2202.2	2338.2	2433.1	2446.9
12.5°	1757.8	1752.7	1786.5	1820.2	1908.8	1986.2	2078.6	2096.0	2252.1	2389.4	2411.9
15°	1686.6	1697.8	1700.3	1765.3	1821.4	1923.8	1996.2	2032.4	2212.2	2354.5	2440.7
17.5°	1674.1	1689.1	1690.3	1744.0	1803.9	1890.1	1953.7	2002.4	2178.4	2372.0	2441.8
20°	1699.1	1690.3	1697.8	1731.5	1790.2	1872.6	1965.0	1981.2	2167.3	2380.7	2455.6
22.5°	1770.2	1767.7	1749.0	1776.4	1817.7	1903.8	1991.2	2016.1	2199.7	2425.6	2466.8
25°	1848.9	1862.6	1845.2	1841.4	1870.1	1955.0	2071.1	2103.6	2308.3	2506.8	2501.8
27.5°	1996.2	1982.5	1982.5	1965.0	1957.5	1998.7	2157.2	2210.9	2429.4	2611.6	2541.8
30°	2137.2	2152.2	2141.0	2147.2	2097.3	2093.6	2279.6	2345.7	2644.1	2771.4	2626.6
32.5°	2360.7	2340.8	2359.5	2343.3	2277.1	2209.6	2445.6	2514.3	2903.8	2954.9	2753.9
35°	2546.7	2538.0	2617.9	2615.4	2508.0	2441.8	2621.6	2724.0	3084.8	3174.7	2903.8
37.5°	2811.4	2795.1	2886.3	2930.0	2833.8	2735.3	2873.8	2992.4	3253.3	3350.7	3057.4
40°	3083.5	3124.7	3247.1	3319.5	3217.2	3086.0	3182.2	3218.3	3365.7	3465.6	3162.2
42.5°	3428.1	3488.0	3612.9	3675.3	3666.6	3524.2	3495.5	3494.3	3446.8	3433.1	3239.6
45°	3758.9	3736.5	3928.7	4064.8	4174.6	4133.4	3797.6	3760.2	3575.4	3481.8	3259.5
47.5°	3903.8	3896.3	4027.4	4269.5	4644.1	4695.2	4237.0	4092.2	3792.7	3686.5	3368.2
50°	3716.5	3755.2	3885.0	4153.4	4727.7	5118.4	4776.4	4581.6	4046.1	3936.2	3625.4
52.5°	3104.8	3131.0	3254.6	3595.4	4443.1	5368.1	5293.3	5180.9	4511.7	4329.5	4073.6
54°	2552.9	2622.9	2690.3	3032.4	3936.2	5229.6	5576.6	5490.5	4815.1	4656.5	4355.7
55°	2223.4	2264.6	2313.3	2654.1	3585.4	4994.9	5544.1	5551.6	5018.6	4758.9	4545.4
57.5°	1624.1	1652.9	1602.9	1754.0	2461.9	4056.1	5071.0	5273.2	5293.3	4912.4	4661.5
60°	1240.9	1253.4	1197.2	1221.0	1530.5	2784.0	3922.5	4165.9	4775.1	4293.2	3948.7
62.5°	962.5	965.0	963.8	1005.0	1054.9	1637.9	2453.1	2669.1	3292.0	3048.6	2681.5
65°	709.1	697.9	717.8	842.7	900.1	1030.0	1292.1	1449.4	1789.0	1510.6	1079.8
67.5°	459.4	463.1	483.2	626.7	771.5	790.2	795.2	782.7	784.0	431.9	270.9
70°	275.9	282.2	275.9	354.6	551.8	566.7	518.1	505.6	394.5	102.3	101.1
72.5°	163.6	154.8	138.6	152.3	229.7	274.7	247.2	245.9	154.8	60.0	60.0
75°	68.6	62.4	51.2	46.2	61.1	58.7	58.7	52.4	41.2	39.9	37.4
77.5°	13.7	13.7	10.0	11.3	15.0	17.5	21.2	21.2	25.0	25.0	23.7
80°	0.0	1.3	3.8	7.5	11.3	16.2	18.8	18.8	21.2	21.2	17.5
82.5°	0.0	1.3	3.8	7.5	10.0	15.0	18.8	18.8	21.2	22.5	18.8
85°	0.0	1.3	3.8	6.2	10.0	12.4	12.4	11.3	8.7	7.5	5.0
87.5°	0.0	0.0	1.3	2.5	1.3	2.5	2.5	2.5	2.5	2.5	2.5
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°	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9	2406.9
2.5°	2418.1	2416.9	2386.9	2338.2	2327.0	2285.8	2280.8	2255.9	2269.6	2223.4	2218.4
5°	2398.2	2383.2	2347.0	2315.8	2224.6	2159.8	2108.6	2046.2	2009.9	2016.1	1992.4
7.5°	2426.9	2388.2	2324.5	2216.0	2104.8	1991.2	1930.0	1802.7	1756.5	1687.8	1677.9
10°	2396.9	2368.3	2269.6	2089.8	1936.2	1772.7	1629.2	1488.1	1380.8	1334.6	1324.6
12.5°	2394.4	2344.5	2179.7	1980.0	1757.8	1523.1	1314.6	1138.5	1032.4	972.5	958.7
15°	2355.7	2295.8	2078.6	1810.2	1503.0	1211.0	983.7	813.9	732.8	697.9	707.9
17.5°	2359.5	2269.6	1977.4	1630.4	1252.2	888.9	671.6	584.2	563.0	571.8	571.8
20°	2355.7	2210.9	1855.2	1423.1	958.7	616.7	493.1	461.9	475.7	503.1	496.9
22.5°	2335.8	2183.5	1742.8	1204.7	705.3	456.9	395.8	397.0	418.2	452.0	459.4
25°	2350.8	2122.3	1600.4	983.7	514.4	364.6	343.3	352.0	374.5	399.5	404.5
27.5°	2339.5	2078.6	1451.9	764.0	375.8	313.4	312.1	322.1	332.1	350.8	350.8
30°	2352.0	2038.7	1305.8	568.0	309.6	287.1	282.2	289.6	299.6	303.3	302.1
32.5°	2398.2	2008.6	1137.3	424.5	273.4	262.1	262.1	262.1	260.9	265.9	267.2
35°	2499.3	2013.7	988.8	328.3	249.7	240.9	237.2	232.2	229.7	232.2	233.5
37.5°	2609.1	2011.2	835.2	279.6	232.2	224.7	216.0	208.5	207.2	209.7	206.0
40°	2657.8	2034.9	692.9	251.0	216.0	207.2	193.5	187.3	188.5	191.0	188.5
42.5°	2724.0	2042.4	600.5	228.4	201.0	187.3	178.5	171.1	169.8	173.5	172.3
45°	2722.7	1999.9	503.1	216.0	187.3	172.3	161.1	154.8	154.8	157.3	158.5
47.5°	2802.6	1993.7	431.9	204.7	177.3	162.3	148.5	143.6	142.3	142.3	139.9
50°	2988.7	2081.1	377.0	192.3	164.8	151.0	139.9	133.6	128.6	126.1	124.8
52.5°	3352.0	2353.2	334.5	177.3	151.0	139.9	129.9	124.8	118.6	112.4	111.1
54°	3704.0	2634.1	332.1	164.8	139.9	132.3	123.6	121.1	113.6	104.9	102.3
55°	3862.5	2797.7	340.8	154.8	132.3	127.3	119.8	117.3	109.8	99.9	98.6
57.5°	3993.7	2861.3	335.8	128.6	119.8	118.6	112.4	108.6	99.9	86.1	83.7
60°	3214.6	2163.5	240.9	113.6	109.8	107.4	102.3	99.9	88.6	73.7	72.4
62.5°	2031.2	1244.7	153.6	99.9	96.1	92.3	86.1	83.7	73.7	58.7	54.9
65°	865.1	515.6	103.6	88.6	82.4	76.1	71.1	67.4	58.7	43.7	42.5
67.5°	224.7	183.5	86.1	77.4	68.6	60.0	56.2	50.0	39.9	29.9	28.7
70°	101.1	92.3	72.4	64.9	54.9	46.2	41.2	35.0	26.2	20.0	18.8
72.5°	60.0	58.7	54.9	48.7	41.2	35.0	29.9	23.7	17.5	11.3	11.3
75°	37.4	36.2	37.4	33.7	28.7	26.2	22.5	16.2	10.0	5.0	5.0
77.5°	22.5	22.5	22.5	21.2	20.0	20.0	16.2	10.0	5.0	1.3	1.3
80°	17.5	17.5	18.8	17.5	17.5	17.5	13.7	7.5	2.5	0.0	0.0
82.5°	17.5	18.8	21.2	20.0	17.5	15.0	12.4	7.5	2.5	0.0	0.0
85°	5.0	3.8	6.2	8.7	12.4	11.3	8.7	6.2	2.5	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	1.3	1.3	1.3	1.3	1.3	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)