

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: P651854

Luminaire Tested: **GALN-SA4A-840-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651854  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-840-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12761.3 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

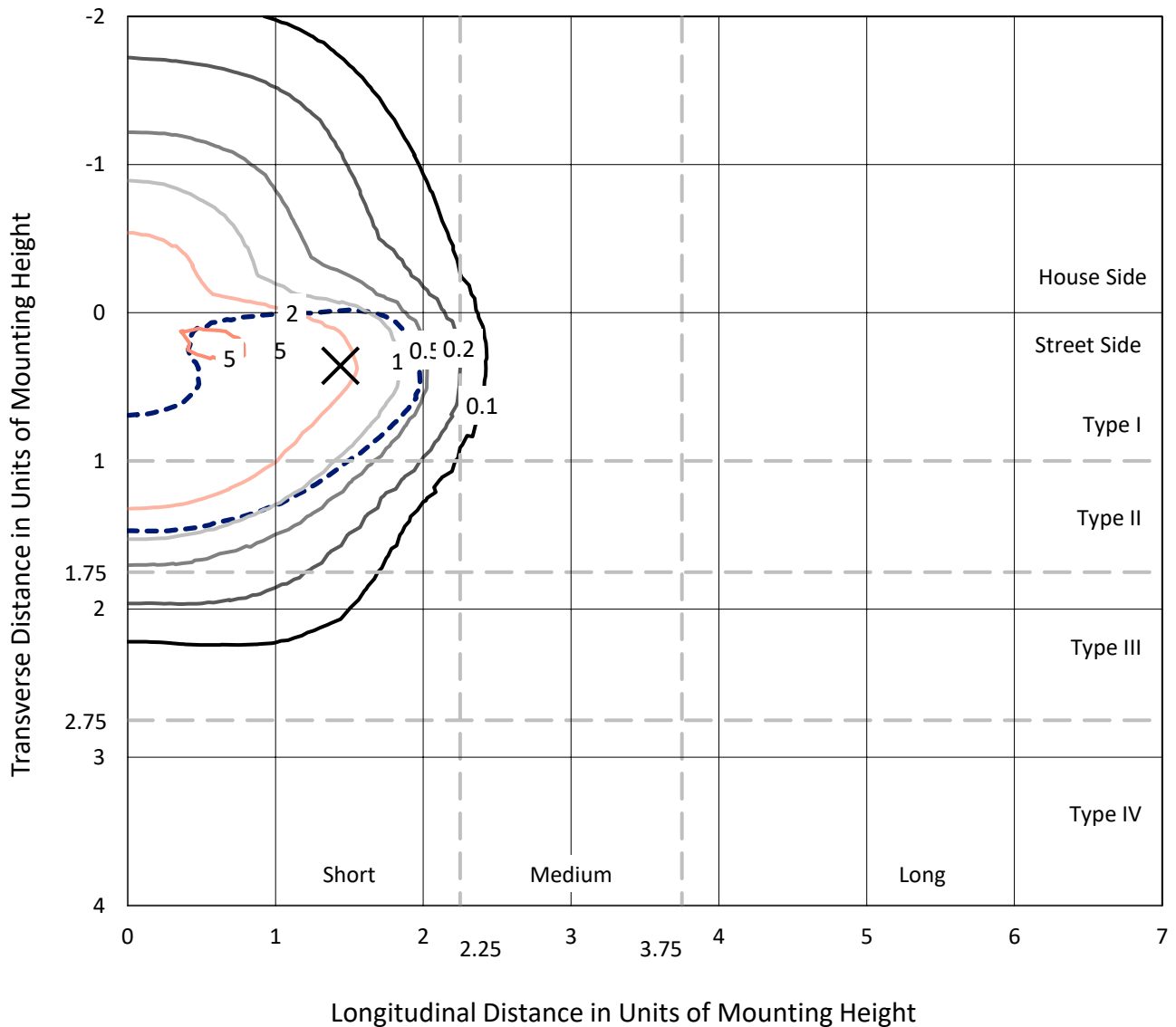
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

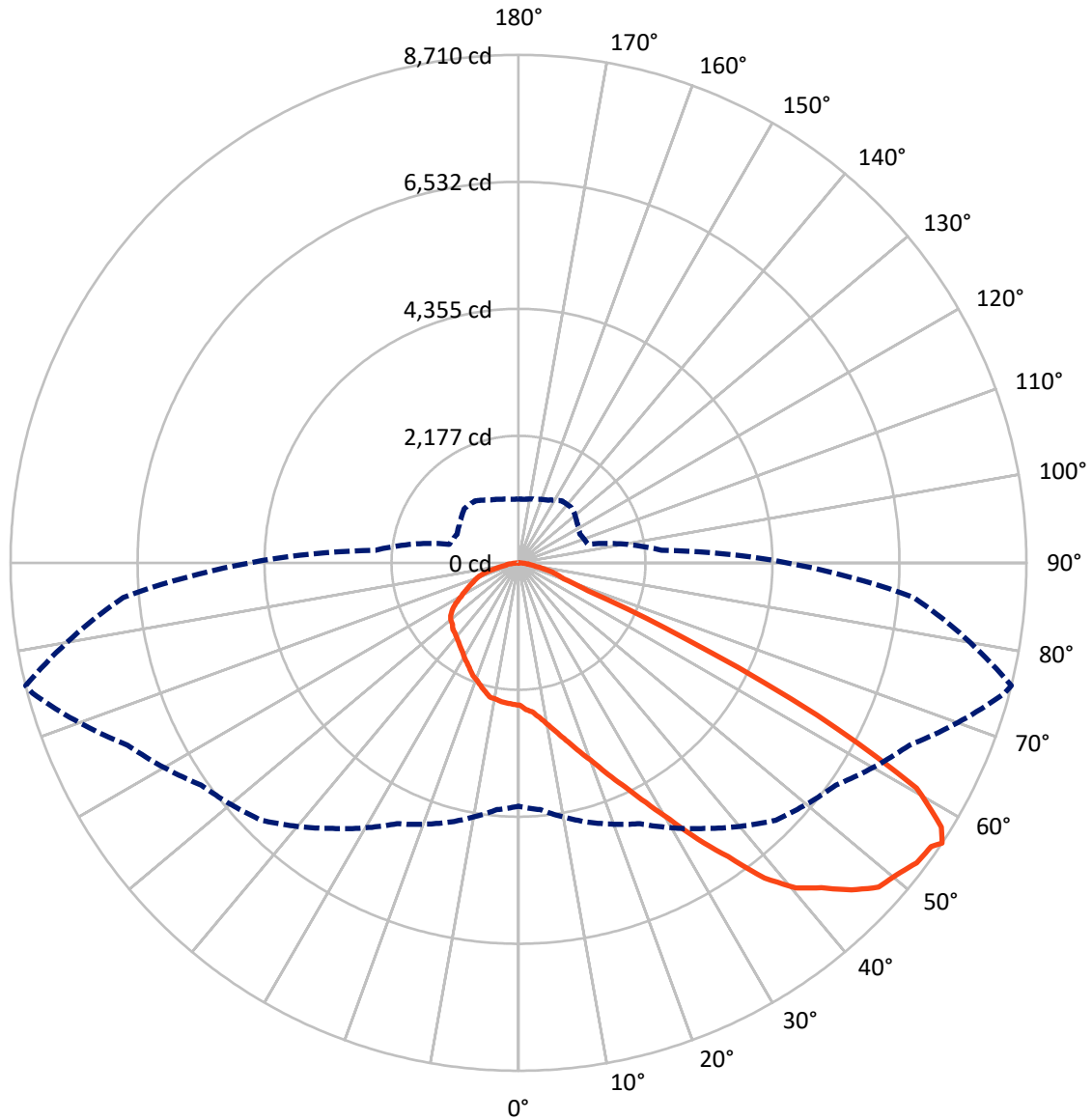
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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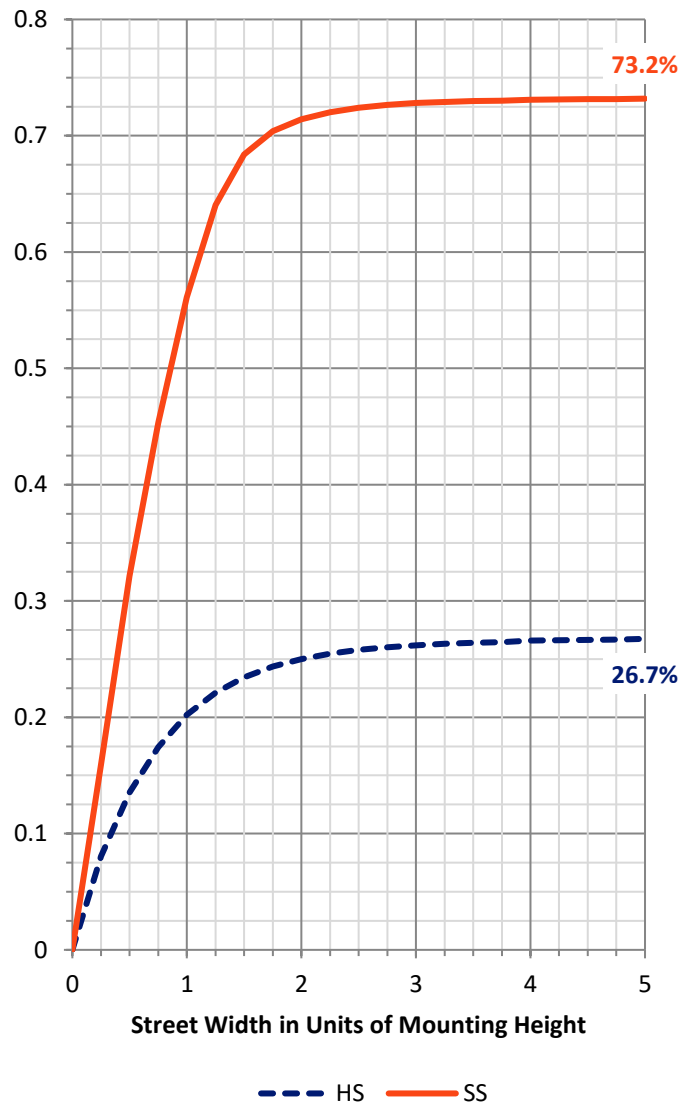
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3431.1	0.0	3431.1
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	9330.2	0.0	9330.2
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	12761.3	0.0	12761.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.1	1.9
10°-20°	760.6	6.0
20°-30°	1330.3	10.4
30°-40°	2082.8	16.3
40°-50°	3029.9	23.7
50°-60°	3330.1	26.1
60°-70°	1486.4	11.6
70°-80°	429.3	3.4
80°-90°	69.6	0.5
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°	12761.3	100.0
0°-180°	12761.3	100.0

**Coefficient of Utilization**



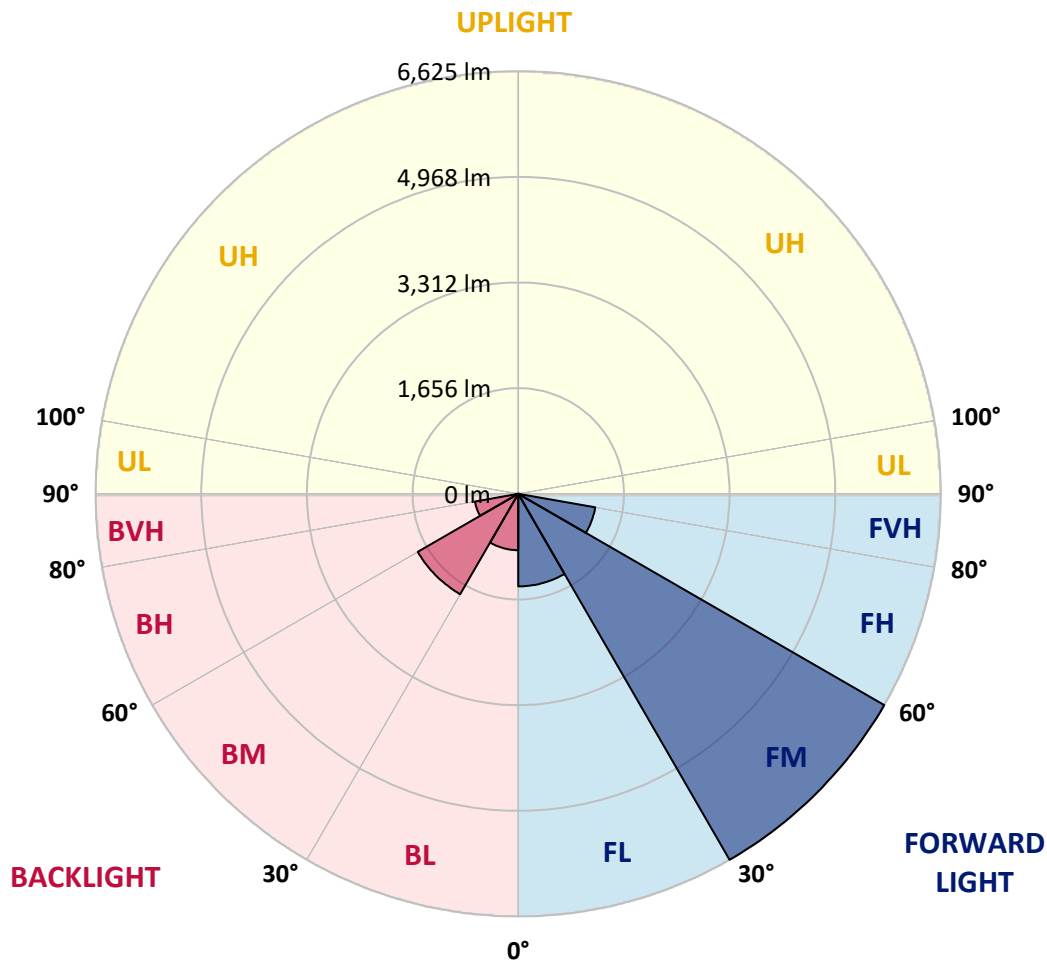
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.2	11.4			
FM (30°-60°)	6624.6	51.9			
FH (60°-80°)	1225.4	9.6			G1/1800
FVH (80°-90°)	30.0	0.2			G1/100
BL (0°-30°)	882.9	6.9	B2/1000		
BM (30°-60°)	1818.2	14.2	B2/2500		
BH (60°-80°)	690.4	5.4	B2/1000		G2/1000
BVH (80°-90°)	39.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2441.8	2441.8	2441.8	2441.8	2441.8	2441.8	2441.8	2441.8	2441.8	2441.8	2441.8
2.5°	2689.9	2646.9	2643.5	2632.0	2638.6	2608.8	2577.3	2536.0	2493.0	2519.5	2456.6
5°	2878.4	2820.5	2843.7	2804.0	2808.9	2769.2	2704.7	2656.8	2603.8	2572.4	2527.7
7.5°	2944.6	2949.6	2966.1	2959.5	2926.4	2926.4	2883.4	2799.0	2706.4	2688.2	2613.7
10°	3034.0	3035.6	3017.4	3022.4	3068.7	3047.2	3009.1	2972.8	2853.6	2832.2	2699.8
12.5°	3065.4	3035.6	3065.4	3091.9	3146.4	3176.2	3168.0	3141.5	3014.1	2999.2	2805.7
15°	3070.3	3052.2	3077.0	3136.5	3184.5	3310.2	3373.1	3354.9	3186.1	3187.8	2924.7
17.5°	3047.2	3072.0	3081.9	3133.2	3244.1	3361.5	3543.5	3568.3	3429.3	3407.8	3075.3
20°	3078.6	3060.4	3073.7	3119.9	3267.2	3450.8	3689.0	3852.8	3657.6	3642.7	3230.8
22.5°	3199.4	3174.5	3171.2	3201.0	3306.9	3497.1	3842.9	4137.4	3935.5	3943.8	3424.4
25°	3293.7	3306.9	3295.3	3293.7	3359.9	3566.6	4046.4	4476.5	4312.7	4264.7	3652.6
27.5°	3455.8	3487.2	3464.1	3495.5	3480.6	3670.9	4192.0	4852.0	4719.7	4655.1	3859.4
30°	3680.8	3697.3	3675.8	3675.8	3631.2	3816.5	4324.3	5244.1	5189.5	5101.8	4102.7
32.5°	3976.9	4001.7	3958.7	3933.9	3927.3	4033.1	4562.5	5631.2	5723.8	5649.3	4425.2
35°	4369.0	4354.0	4302.8	4279.6	4190.3	4365.6	4916.5	6076.1	6319.4	6187.0	4815.7
37.5°	4714.7	4691.5	4688.2	4559.2	4580.7	4724.7	5217.6	6413.6	6896.7	6858.6	5227.5
40°	5037.3	5058.8	5093.5	5020.8	4987.6	5146.5	5568.3	6671.7	7345.0	7330.2	5545.1
42.5°	5383.0	5363.1	5424.4	5363.1	5313.5	5538.5	5948.8	6850.4	7738.7	7616.3	5877.7
45°	5884.3	5821.4	5842.9	5847.9	5811.5	5894.2	6105.9	6979.4	8015.0	8001.8	6120.8
47.5°	6302.8	6304.5	6268.1	6240.0	6129.1	6211.8	6281.3	7060.4	8332.6	8311.1	6215.2
50°	6458.3	6436.8	6542.6	6603.9	6610.5	6441.8	6418.6	7105.1	8499.7	8405.4	6309.4
52.5°	5899.2	5919.0	6086.1	6450.0	6660.1	6678.3	6579.1	7197.8	8567.5	8547.7	6385.5
55°	4747.8	4843.7	5118.3	5538.5	6036.4	6584.0	6752.8	7293.7	8603.9	8587.4	6723.0
56°	4173.7	4248.2	4605.5	4934.7	5560.0	6241.6	6643.6	7396.3	8632.0	8709.8	6802.4
57.5°	3359.9	3445.8	3702.3	4076.2	4814.0	5589.8	6342.5	7270.5	8522.9	8552.6	6860.3
60°	2100.9	2109.2	2416.9	2663.4	3182.8	3940.5	4840.5	6326.0	7887.6	7844.6	6162.2
62.5°	1378.0	1379.7	1659.2	1861.0	2097.6	2271.3	2848.6	4195.2	5819.7	5743.7	4387.2
65°	967.7	989.3	1206.0	1475.6	1571.6	1480.6	1462.4	2211.7	3250.6	3141.5	2357.3
67.5°	708.0	709.7	901.6	1191.1	1330.0	1126.6	914.8	1080.3	1287.1	1283.7	1091.8
70°	468.2	488.0	635.2	890.0	1048.8	904.9	747.7	772.5	818.9	818.9	812.2
72.5°	273.0	291.2	388.8	564.1	589.0	565.7	592.2	661.7	691.5	689.9	681.5
75°	155.5	163.7	185.3	234.9	292.8	345.7	435.0	501.2	531.0	549.3	527.7
77.5°	91.0	96.0	109.2	134.0	152.2	187.0	236.6	282.9	322.6	317.6	320.9
80°	47.9	47.9	61.2	79.4	105.9	132.4	157.2	183.6	205.1	210.1	215.0
82.5°	28.1	29.8	39.7	57.9	76.1	94.3	120.8	138.9	158.8	160.5	163.7
85°	14.9	16.6	24.8	38.0	51.3	57.9	59.5	56.3	61.2	57.9	66.2
87.5°	5.0	5.0	8.2	6.6	6.6	8.2	9.9	9.9	13.2	13.2	13.2
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°	2441.8	2441.8	2441.8	2441.8	2441.8	2441.8	2441.8	2441.8	2441.8	2441.8	2441.8
2.5°	2455.0	2455.0	2426.8	2373.9	2365.6	2344.1	2324.3	2322.6	2307.7	2294.5	2287.9
5°	2501.3	2450.0	2408.6	2360.7	2304.4	2277.9	2248.2	2215.1	2201.8	2215.1	2213.4
7.5°	2554.2	2511.2	2387.1	2297.8	2233.3	2206.8	2173.7	2139.0	2142.3	2142.3	2119.2
10°	2605.5	2547.6	2349.1	2235.0	2140.6	2120.7	2102.6	2115.8	2132.4	2135.6	2120.7
12.5°	2691.5	2560.8	2330.9	2172.1	2112.5	2069.5	2081.1	2117.5	2152.2	2142.3	2153.9
15°	2756.0	2572.4	2248.2	2107.5	2033.1	2053.0	2094.3	2119.2	2177.0	2170.5	2182.0
17.5°	2818.9	2579.0	2167.1	2021.5	1990.1	2044.7	2076.1	2147.2	2165.5	2205.2	2220.1
20°	2948.0	2592.3	2084.4	1968.6	1958.7	2021.5	2076.1	2109.2	2148.9	2183.7	2183.7
22.5°	3014.1	2585.7	2029.8	1899.1	1930.5	1970.2	2019.9	2076.1	2076.1	2109.2	2110.8
25°	3096.8	2559.2	1943.8	1866.0	1889.2	1927.2	1983.5	1963.7	1985.1	1985.1	2011.6
27.5°	3191.1	2502.9	1869.4	1806.5	1852.8	1894.2	1902.4	1889.2	1864.4	1861.0	1851.1
30°	3267.2	2433.4	1814.7	1786.6	1824.6	1847.8	1821.4	1793.3	1750.2	1746.9	1723.8
32.5°	3371.4	2347.4	1746.9	1737.0	1780.0	1781.7	1773.4	1730.4	1667.5	1641.0	1614.6
35°	3546.7	2297.8	1695.6	1710.5	1723.8	1718.8	1704.0	1657.6	1594.7	1583.2	1573.3
37.5°	3675.8	2261.4	1642.7	1660.9	1672.5	1679.1	1634.4	1583.2	1584.8	1561.7	1555.0
40°	3821.4	2238.2	1599.7	1608.0	1609.6	1631.1	1576.5	1551.7	1563.3	1548.4	1558.4
42.5°	4008.3	2244.9	1555.0	1548.4	1579.8	1571.6	1545.1	1512.0	1518.6	1473.9	1480.6
45°	4107.6	2289.5	1528.5	1498.7	1533.5	1531.9	1497.1	1465.7	1426.0	1340.0	1343.2
47.5°	4173.7	2301.1	1465.7	1445.8	1482.3	1503.7	1464.0	1391.3	1335.0	1273.8	1258.9
50°	4241.6	2322.6	1435.9	1394.5	1409.4	1460.7	1411.1	1341.6	1287.1	1232.4	1240.7
52.5°	4301.1	2364.0	1378.0	1316.8	1343.2	1399.5	1373.0	1288.7	1229.1	1184.5	1171.3
55°	4565.8	2456.6	1280.4	1201.0	1263.9	1335.0	1320.1	1217.5	1153.0	1129.9	1126.6
56°	4607.2	2459.9	1229.1	1161.3	1219.2	1313.5	1295.3	1186.1	1128.2	1091.8	1093.5
57.5°	4613.8	2420.2	1156.4	1124.9	1174.5	1282.1	1258.9	1161.3	1081.9	1048.8	1038.9
60°	4059.6	1889.2	1065.4	1045.5	1103.4	1186.1	1177.8	1093.5	1004.2	966.1	984.3
62.5°	2767.6	1384.6	994.2	991.0	1020.7	1101.7	1080.3	1004.2	929.7	904.9	893.3
65°	1611.3	1050.5	924.8	911.5	936.3	979.3	994.2	914.8	837.0	820.6	815.6
67.5°	951.2	868.5	835.4	813.9	805.6	832.1	843.7	797.4	719.6	696.4	716.3
70°	795.7	772.5	774.2	737.8	718.0	699.8	689.9	648.5	584.0	554.2	545.9
72.5°	686.5	676.6	670.0	636.9	618.7	577.3	534.4	493.0	445.0	420.2	421.8
75°	524.4	521.1	524.4	507.9	476.4	443.4	403.7	350.7	314.3	282.9	289.5
77.5°	312.7	322.6	327.6	320.9	307.7	278.0	253.1	218.3	183.6	158.8	155.5
80°	215.0	223.4	231.6	223.4	210.1	188.6	162.1	135.7	110.8	97.6	94.3
82.5°	163.7	172.1	177.0	168.7	152.2	129.0	110.8	92.7	72.7	59.5	56.3
85°	59.5	67.8	66.2	79.4	86.0	82.8	71.1	54.6	41.4	29.8	28.1
87.5°	16.6	14.9	16.6	16.6	16.6	14.9	13.2	13.2	13.2	8.2	6.6
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)