

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: P651864

Luminaire Tested: **GALN-SA4A-840-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651864  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
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-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9252.7 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

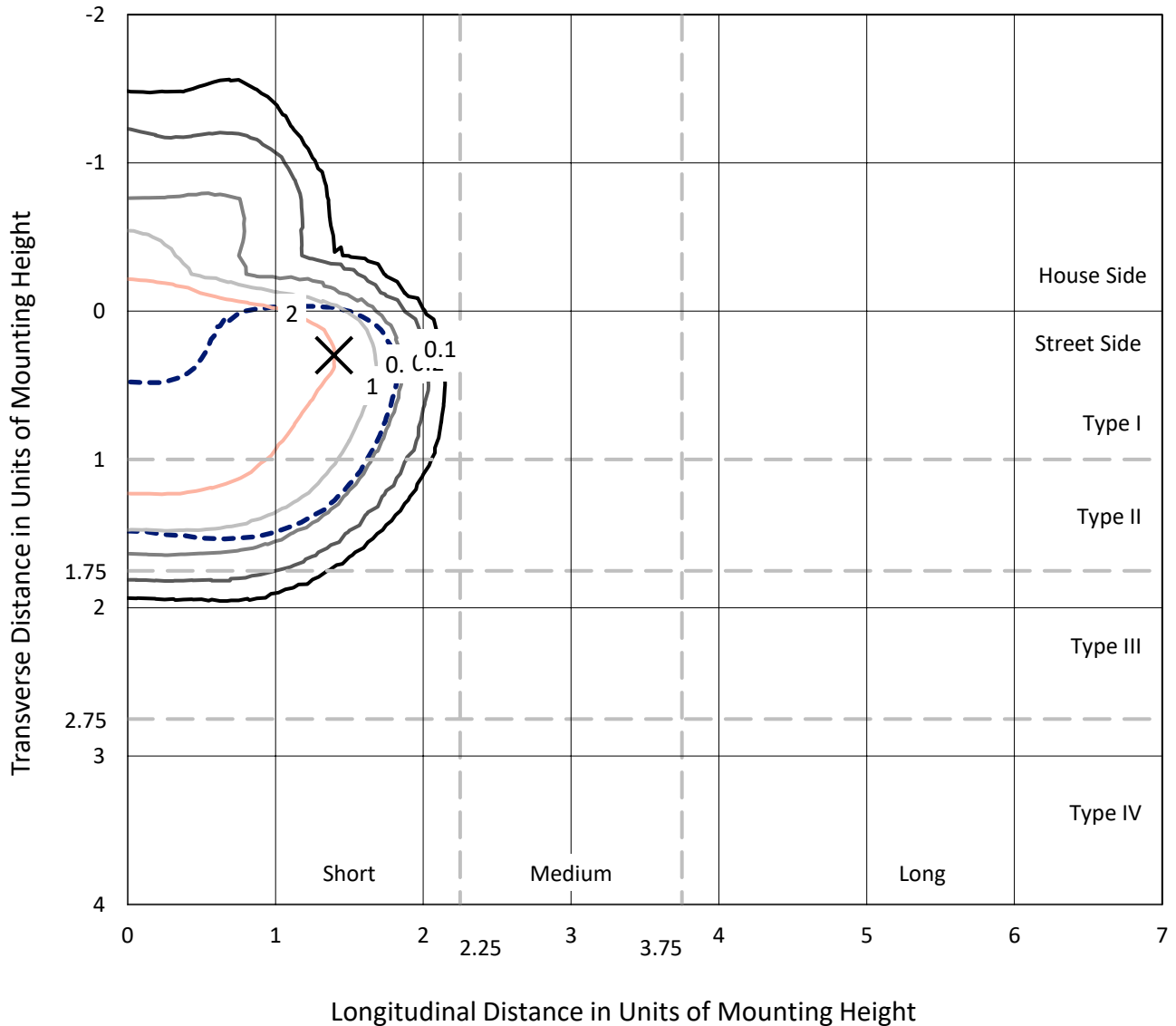
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

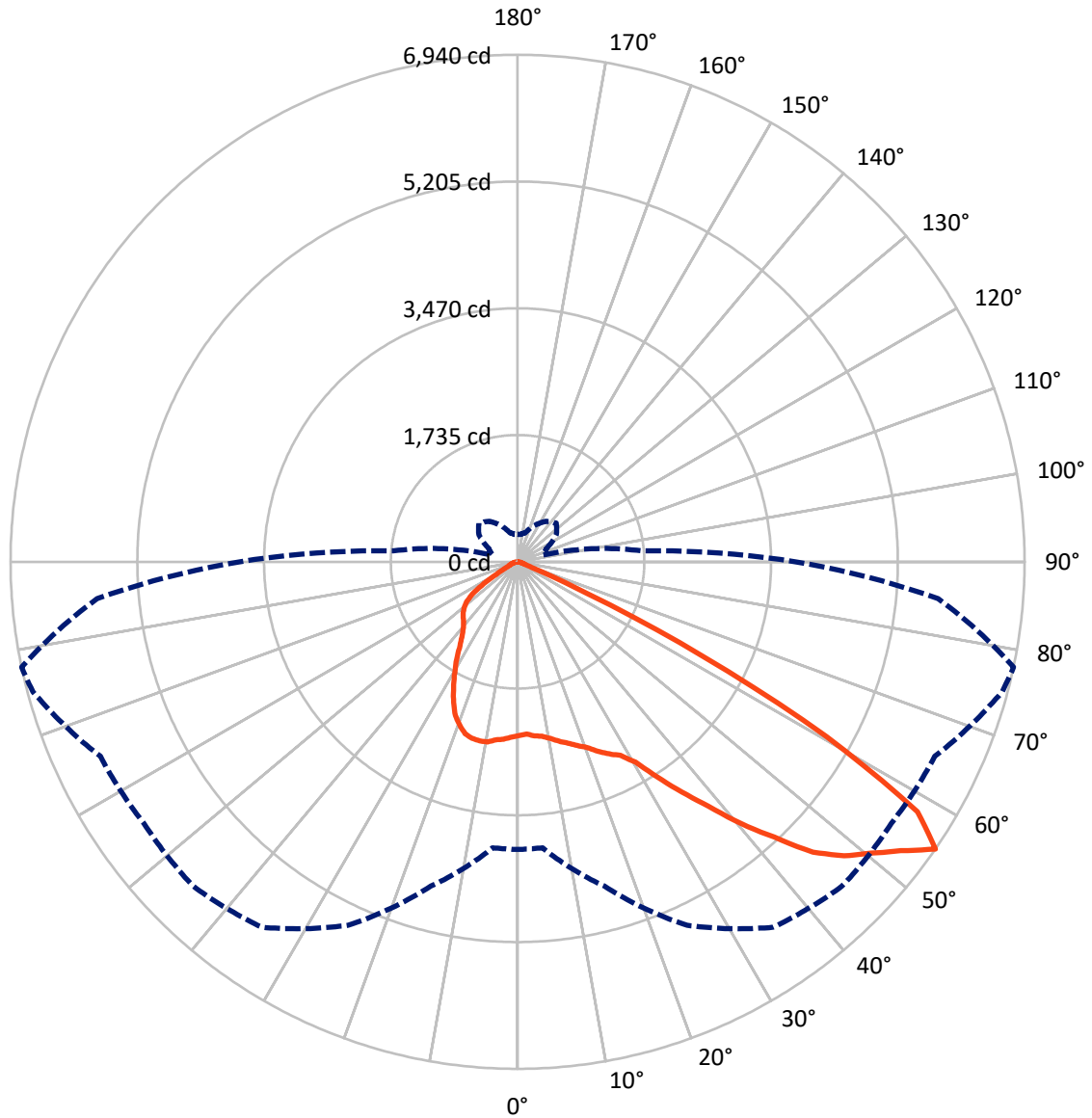
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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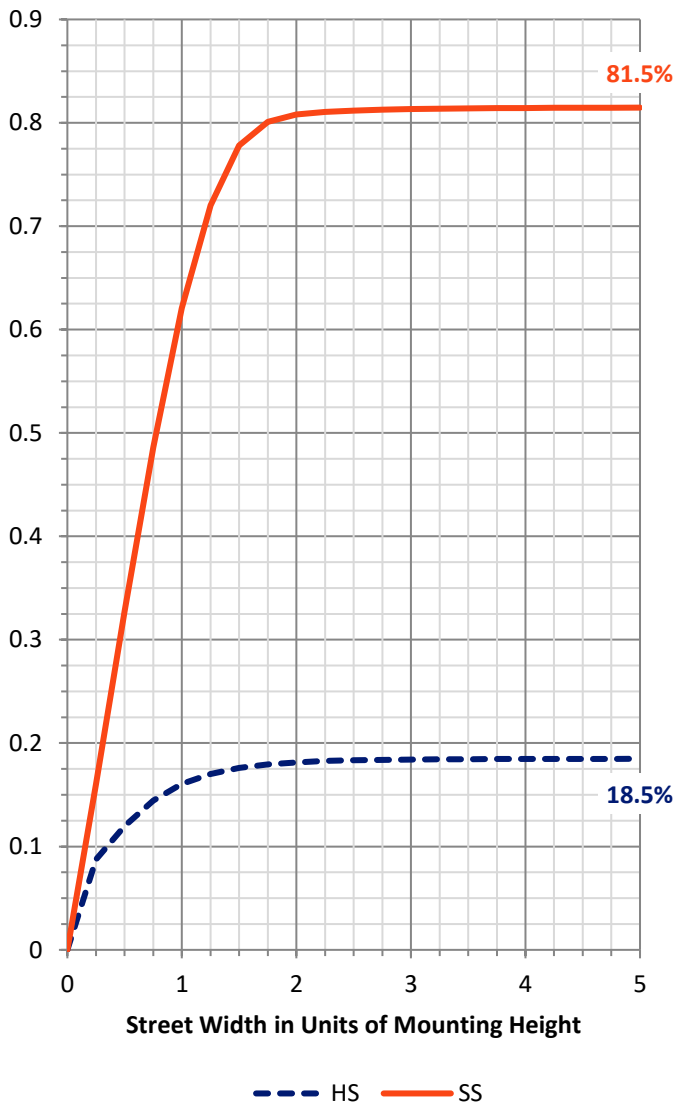
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1718.6	0.0	1718.6
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	7534.1	0.0	7534.1
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	9252.7	0.0	9252.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.1	2.3
10°-20°	561.4	6.1
20°-30°	984.0	10.6
30°-40°	1622.5	17.5
40°-50°	2360.9	25.5
50°-60°	2675.2	28.9
60°-70°	764.9	8.3
70°-80°	59.4	0.6
80°-90°	12.4	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°	9252.7	100.0
0°-180°	9252.7	100.0



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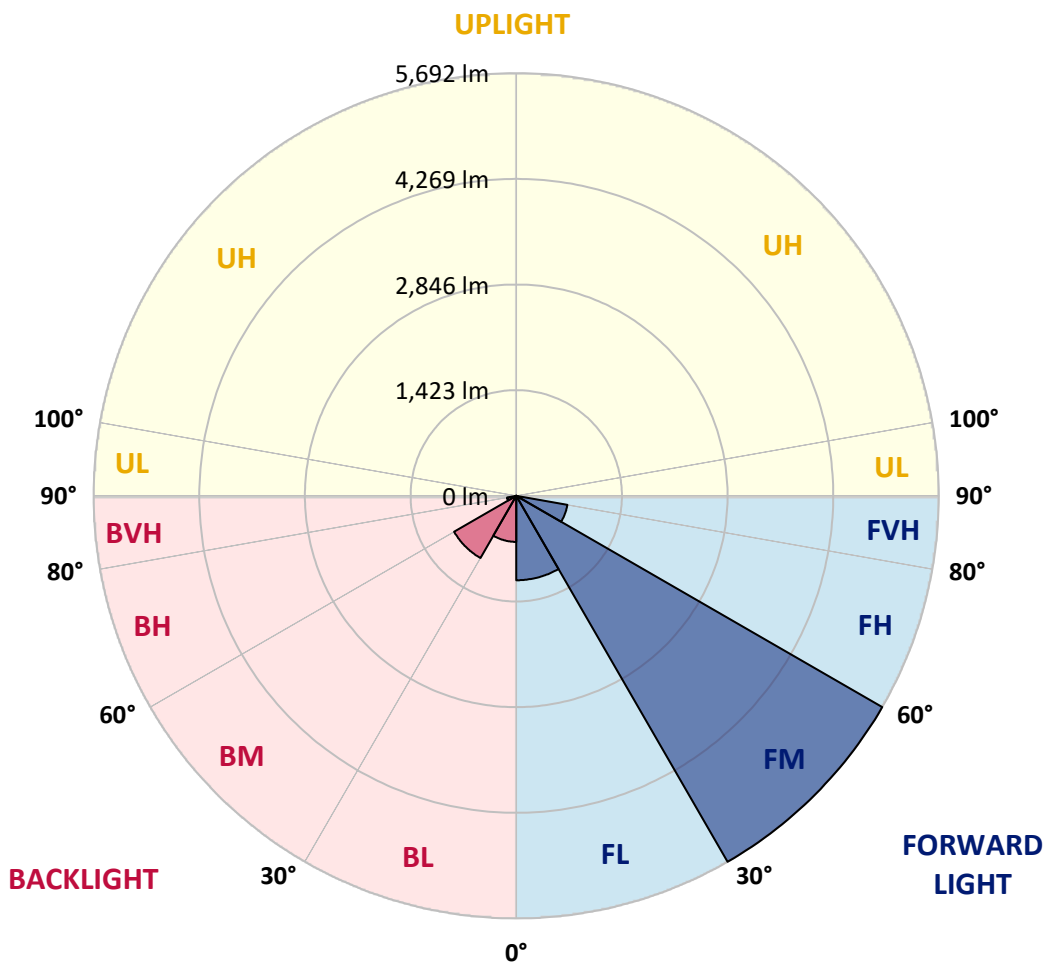
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1137.4	12.3			
FM (30°-60°)	5691.8	61.5			
FH (60°-80°)	698.8	7.6			G1/1800
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	620.1	6.7	B2/1000		
BM (30°-60°)	966.7	10.4	B1/1000		
BH (60°-80°)	125.4	1.4	B1/500		G1/500
BVH (80°-90°)	6.3	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°	55°	65°	75°	78°	85°
0°	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9
2.5°	2236.6	2258.1	2261.4	2287.9	2286.3	2330.9	2344.1	2345.8	2375.6	2360.7	2398.7
5°	2173.7	2162.1	2157.2	2203.5	2216.7	2256.5	2289.5	2309.4	2370.6	2392.1	2431.8
7.5°	2117.5	2117.5	2120.8	2162.1	2157.2	2208.5	2243.2	2304.4	2393.7	2412.0	2459.9
10°	2062.9	2043.0	2067.9	2110.9	2147.2	2170.5	2243.2	2301.1	2405.3	2458.2	2524.4
12.5°	2034.8	2044.7	2048.0	2079.5	2119.2	2188.6	2228.3	2324.3	2488.0	2519.5	2590.6
15°	2211.7	2191.9	2144.0	2115.9	2148.9	2182.0	2281.3	2378.9	2531.1	2575.7	2655.1
17.5°	2416.9	2400.4	2360.7	2284.6	2210.1	2271.4	2349.1	2438.4	2577.4	2643.5	2761.0
20°	2684.9	2658.5	2618.7	2469.8	2405.3	2339.2	2421.9	2527.8	2653.5	2713.1	2833.8
22.5°	3004.2	3004.2	2914.8	2734.5	2600.5	2537.7	2572.5	2633.6	2737.9	2818.9	2938.0
25°	3336.7	3326.7	3245.8	3058.8	2832.2	2757.7	2797.4	2840.4	2868.6	2913.2	2992.6
27.5°	3717.2	3659.3	3556.8	3350.0	3149.8	3005.8	3048.9	3010.8	2976.0	2999.3	3113.4
30°	3975.2	4011.7	3881.0	3682.5	3493.9	3333.4	3341.6	3308.6	3149.8	3182.8	3250.7
32.5°	4243.3	4266.4	4193.6	4084.5	3895.8	3708.9	3641.1	3612.9	3493.9	3508.7	3442.5
35°	4466.6	4511.3	4446.7	4398.8	4344.2	4193.6	4006.7	4097.7	3905.8	3869.4	3697.4
37.5°	4671.8	4658.5	4734.6	4685.0	4673.4	4567.5	4362.4	4380.6	4251.5	4243.3	4044.7
40°	4855.3	4858.6	4962.9	4986.0	4939.7	4751.1	4453.3	4597.2	4701.5	4711.5	4456.6
42.5°	5007.6	5052.2	5141.5	5328.5	5259.0	4944.7	4547.6	4704.8	5091.9	5153.1	4847.1
45°	5139.9	5230.9	5341.7	5508.8	5469.1	5219.2	4782.5	4926.5	5508.8	5669.3	5214.3
47.5°	5148.2	5267.3	5388.0	5636.1	5685.8	5366.5	5025.7	5277.2	5839.7	6013.3	5482.3
50°	5115.0	5178.0	5419.5	5689.1	5801.6	5606.4	5366.5	5571.6	6160.6	6269.7	5618.0
52.5°	4723.0	4771.0	5255.7	5738.7	6010.0	5877.7	5818.1	5981.9	6488.1	6569.2	5745.4
55°	3937.2	3928.9	4595.6	5489.0	6106.0	6279.7	6243.3	6301.2	6866.9	6939.8	5776.7
57.5°	2693.2	2843.8	3419.4	4570.8	5518.7	6185.4	6223.4	6127.5	6425.2	6453.4	5035.7
60°	1452.5	1515.3	1978.5	3050.5	4201.9	5040.6	5139.9	4966.2	4943.1	4863.6	3594.8
62.5°	577.3	608.8	871.8	1510.4	2289.5	3063.8	3277.1	3206.0	3053.8	2845.4	1861.0
65°	274.6	294.4	433.5	706.4	1015.8	1277.1	1490.5	1556.7	1148.0	1033.9	613.8
67.5°	187.0	201.8	316.0	403.7	362.3	378.9	493.0	458.3	269.6	229.9	170.4
70°	142.3	152.2	253.1	274.6	162.1	114.1	127.4	119.1	110.8	112.5	110.8
72.5°	100.9	109.2	185.3	162.1	71.1	52.9	67.8	81.1	81.1	81.1	79.4
75°	61.2	69.5	107.6	62.8	28.1	28.1	43.0	54.6	57.9	59.5	56.3
77.5°	31.5	39.7	36.4	18.2	18.2	21.5	31.5	38.0	41.4	41.4	39.7
80°	6.6	6.6	6.6	9.9	18.2	23.1	31.5	34.7	39.7	39.7	36.4
82.5°	0.0	1.7	5.0	9.9	16.6	21.5	29.8	34.7	39.7	41.4	38.0
85°	0.0	1.7	3.3	6.6	11.6	13.2	11.6	9.9	9.9	9.9	9.9
87.5°	0.0	0.0	1.7	1.7	1.7	3.3	3.3	3.3	3.3	3.3	3.3
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°	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9	2378.9
2.5°	2402.1	2407.0	2398.7	2397.1	2390.5	2410.3	2362.4	2350.8	2380.5	2352.4	2359.0
5°	2433.4	2445.0	2430.2	2405.3	2368.9	2312.7	2264.7	2201.8	2172.1	2150.6	2147.2
7.5°	2456.6	2464.9	2450.0	2370.6	2261.4	2119.2	2013.3	1935.6	1874.3	1856.1	1826.3
10°	2550.9	2552.6	2478.1	2302.7	2089.4	1902.4	1740.3	1621.2	1560.0	1522.0	1505.4
12.5°	2613.7	2610.5	2459.9	2168.8	1884.3	1636.1	1450.8	1306.9	1250.7	1232.5	1220.9
15°	2693.2	2675.0	2416.9	2031.4	1619.5	1351.6	1184.5	1085.2	1080.3	1068.7	1080.3
17.5°	2756.0	2704.7	2354.0	1781.7	1366.5	1113.3	1004.2	1010.8	1024.0	1035.6	1037.2
20°	2858.6	2752.8	2210.1	1563.3	1131.6	954.5	952.9	982.6	1015.8	1029.0	1042.2
22.5°	2936.4	2772.6	2056.2	1330.0	939.6	890.0	918.1	962.8	987.6	1000.9	1020.7
25°	2964.5	2718.0	1851.1	1096.8	847.0	860.3	903.2	933.0	964.5	979.3	971.1
27.5°	2992.6	2689.9	1606.3	903.2	797.4	840.4	876.7	906.5	916.4	936.4	949.6
30°	3060.4	2592.3	1386.3	780.8	772.5	827.1	853.6	863.5	890.0	901.6	901.6
32.5°	3115.1	2554.2	1153.0	722.9	769.3	833.8	837.0	837.0	840.4	832.1	828.8
35°	3227.5	2423.5	944.6	688.2	767.6	835.4	843.7	815.6	739.5	709.7	701.4
37.5°	3366.5	2339.2	790.8	679.9	779.2	855.3	868.5	762.6	663.4	615.4	607.1
40°	3535.2	2279.6	689.9	676.6	805.7	901.6	861.9	721.2	592.2	522.8	519.5
42.5°	3732.1	2225.0	622.0	675.0	838.7	949.6	855.3	686.5	519.5	473.1	479.7
45°	3889.2	2195.3	575.7	663.4	850.3	977.7	860.3	625.3	489.6	459.9	463.2
47.5°	4011.7	2132.4	537.7	643.5	848.7	987.6	815.6	600.5	474.7	483.1	491.3
50°	4014.9	2048.0	489.6	600.5	823.8	969.4	764.3	577.3	471.5	506.2	522.8
52.5°	3970.3	1928.9	438.4	539.3	765.9	906.5	718.0	567.4	456.6	453.3	473.1
55°	3811.5	1705.5	352.4	436.7	646.8	747.7	676.6	549.3	411.9	373.9	377.2
57.5°	3080.3	1222.6	259.7	312.7	458.3	547.6	610.4	540.9	370.5	317.6	319.2
60°	1907.4	693.2	190.2	213.4	282.9	332.5	494.6	502.9	330.8	268.0	264.7
62.5°	979.3	342.5	147.3	150.5	173.7	195.2	339.1	421.8	299.4	254.7	254.7
65°	327.6	168.7	129.0	115.8	115.8	120.8	205.1	292.8	253.1	213.4	213.4
67.5°	140.6	125.7	112.5	100.9	92.7	87.7	115.8	170.4	188.6	162.1	155.5
70°	109.2	105.9	97.6	84.4	72.8	66.2	67.8	87.7	107.6	104.2	100.9
72.5°	81.1	81.1	77.8	66.2	56.3	47.9	44.7	46.3	51.3	52.9	54.6
75°	56.3	57.9	57.9	51.3	41.4	34.7	29.8	24.8	19.8	16.6	14.9
77.5°	38.0	39.7	43.0	38.0	31.5	23.1	18.2	13.2	8.2	3.3	3.3
80°	33.1	38.0	41.4	38.0	33.1	24.8	18.2	9.9	5.0	0.0	0.0
82.5°	34.7	38.0	43.0	36.4	31.5	23.1	18.2	11.6	5.0	1.7	0.0
85°	8.2	8.2	9.9	11.6	14.9	16.6	13.2	8.2	5.0	1.7	0.0
87.5°	3.3	3.3	3.3	3.3	3.3	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)