

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: P529516

Luminaire Tested: **GALN-SA4C-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529516  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-830-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19420 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

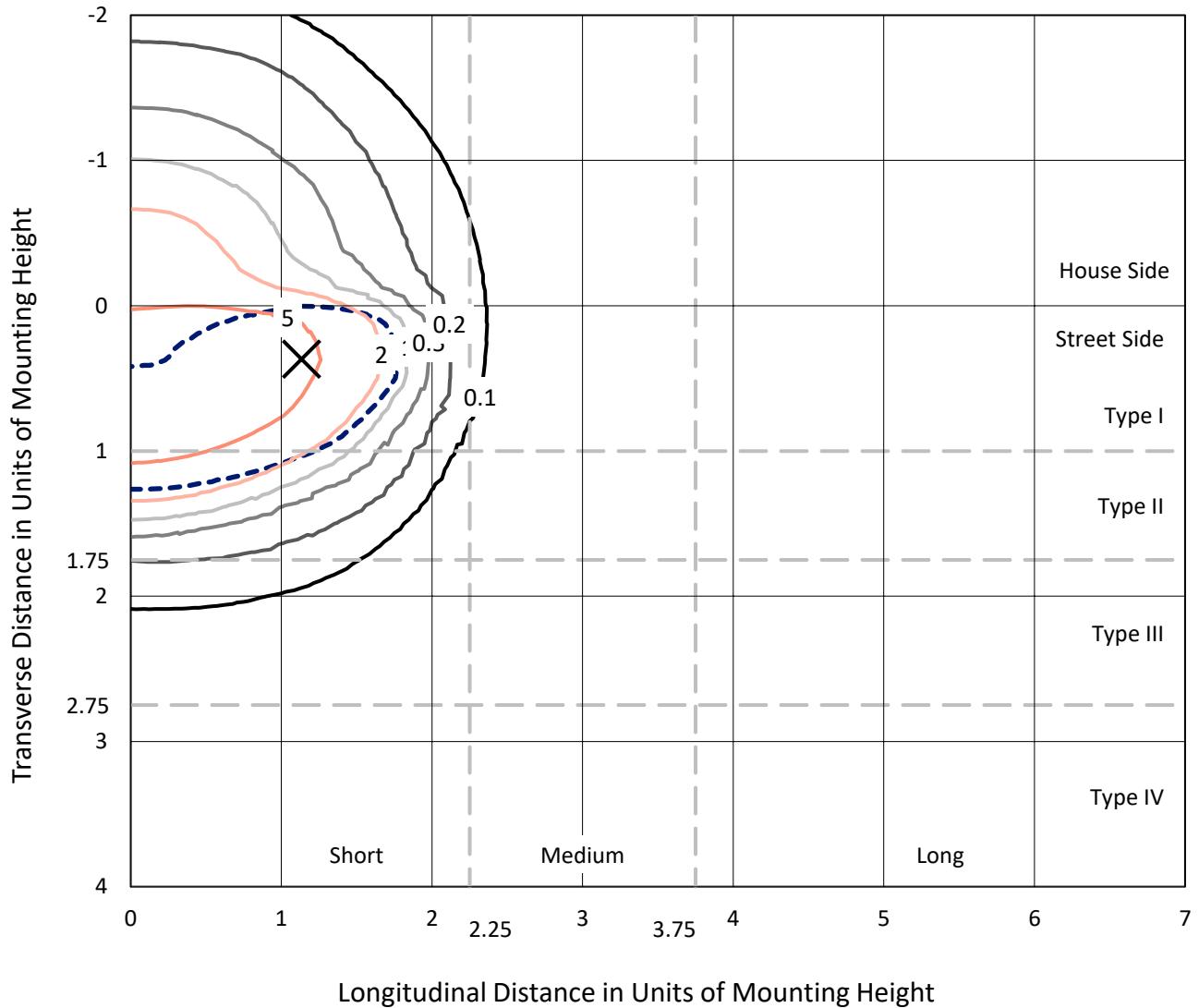
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

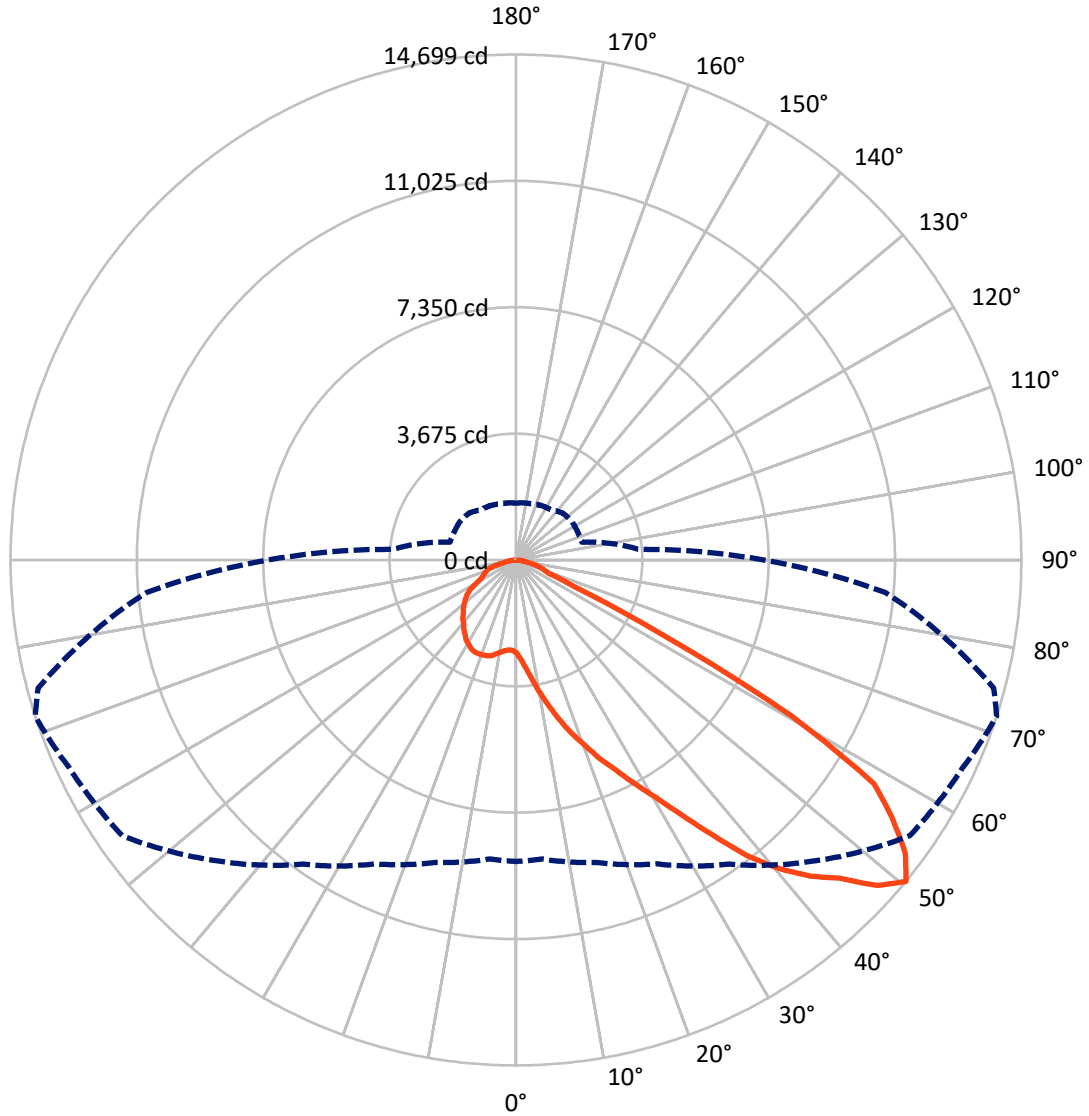
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4449.2	0.0	4449.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	14970.8	0.0	14970.8
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	19420.0	0.0	19420.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.0	1.6
10°-20°	1188.8	6.1
20°-30°	2304.9	11.9
30°-40°	3818.5	19.7
40°-50°	5342.9	27.5
50°-60°	4507.4	23.2
60°-70°	1373.8	7.1
70°-80°	482.0	2.5
80°-90°	83.8	0.4
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°	19420.0	100.0
0°-180°	19420.0	100.0

**Coefficient of Utilization**



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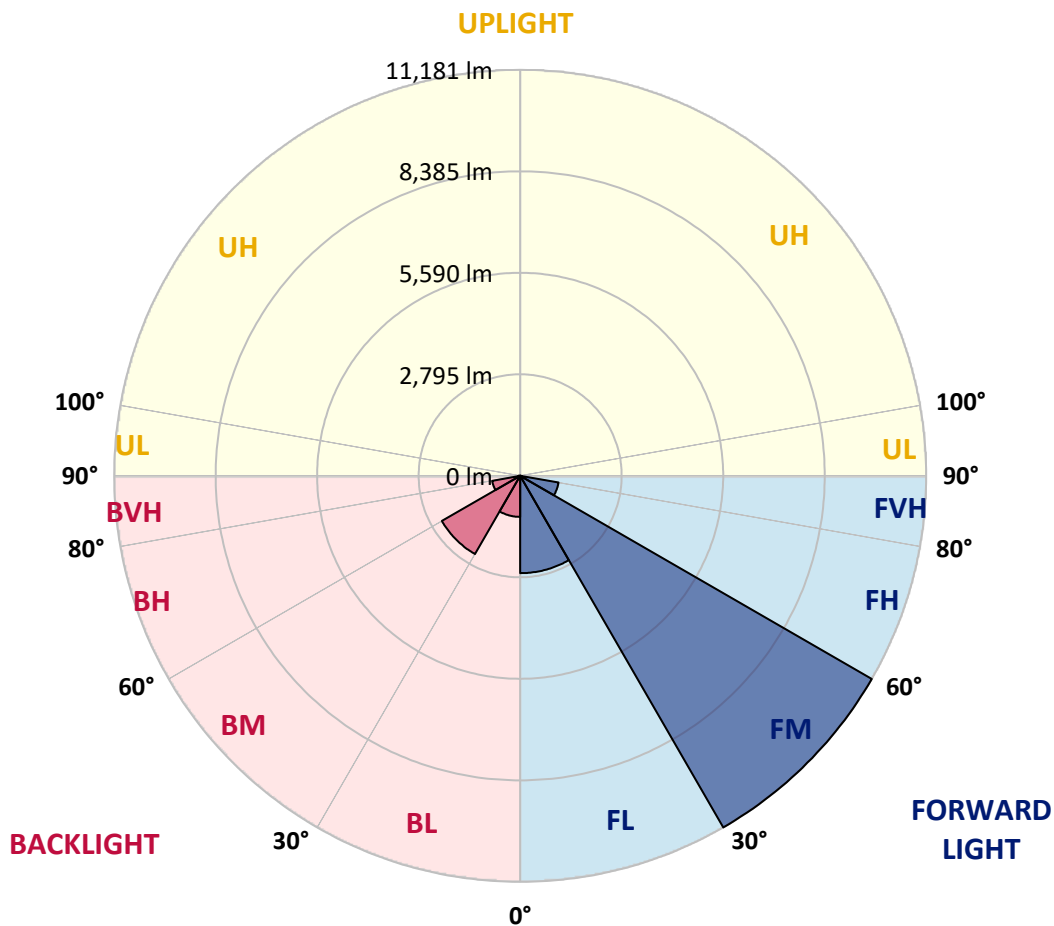
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2680.7	13.8			
FM (30°-60°)	11180.6	57.6			
FH (60°-80°)	1072.0	5.5			G1/1800
FVH (80°-90°)	37.5	0.2			G1/100
BL (0°-30°)	1131.0	5.8	B3/2500		
BM (30°-60°)	2488.1	12.8	B2/2500		
BH (60°-80°)	783.9	4.0	B2/1000		G2/1000
BVH (80°-90°)	46.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4
2.5°	3477.2	3455.6	3390.7	3369.1	3292.2	3152.8	3104.7	2963.0	2902.9	2847.6	2782.7
5°	4397.6	4296.7	4289.4	4166.9	3989.1	3885.7	3578.1	3371.5	3181.6	3085.5	2907.7
7.5°	4983.9	4986.3	4986.3	4885.4	4743.6	4481.7	4205.3	3832.9	3546.9	3405.1	3102.3
10°	5541.4	5493.4	5466.9	5457.3	5361.2	5106.5	4810.9	4349.5	3957.8	3792.0	3248.9
12.5°	5935.5	5894.7	5954.8	5923.5	5853.8	5688.0	5409.3	4883.0	4392.8	4169.3	3484.4
15°	6123.0	6151.8	6199.9	6286.4	6255.1	6192.7	5885.1	5430.9	4861.4	4609.0	3693.5
17.5°	6411.3	6332.0	6389.7	6497.8	6584.4	6555.5	6380.1	5827.4	5325.2	5015.2	3974.6
20°	6613.2	6567.5	6596.4	6721.3	6786.2	6949.6	6858.3	6346.5	5769.7	5442.9	4306.3
22.5°	7189.9	7122.6	7028.9	7048.1	7072.2	7187.5	7209.1	6916.0	6286.4	5940.3	4621.1
25°	7901.2	7838.7	7728.2	7615.3	7545.6	7523.9	7598.4	7362.9	6781.4	6423.3	4959.9
27.5°	8684.6	8578.9	8509.2	8276.1	8088.7	8059.8	8023.8	7896.4	7367.7	6980.9	5342.0
30°	9446.4	9362.3	9268.6	8896.1	8701.4	8670.2	8492.4	8528.4	8004.6	7574.4	5774.5
32.5°	10023.1	10030.3	9816.5	9535.3	9352.7	9186.9	9122.0	9225.3	8821.6	8475.6	6257.5
35°	10489.3	10510.9	10306.7	10052.0	9854.9	9970.2	9941.4	9989.5	9797.2	9374.3	6819.9
37.5°	10943.5	10835.3	10616.7	10494.1	10390.8	10580.6	10825.7	10866.6	10902.6	10405.2	7473.5
40°	11018.0	11027.6	10900.2	10986.7	10857.0	11142.9	11712.5	11659.6	11806.2	11371.2	8182.4
42.5°	10912.2	10933.9	10984.3	11106.9	11419.3	11762.9	12608.8	12392.5	12570.3	12183.5	8872.1
45°	10739.2	10650.3	10712.8	11179.0	11719.7	12483.8	13428.2	13260.0	13202.3	12877.9	9693.9
47.5°	9912.6	10003.9	10198.5	10772.9	11585.1	12608.8	14009.8	13971.3	14144.3	13916.1	10441.2
50°	8766.3	8730.3	9105.2	9751.6	10799.3	12363.7	13978.5	14327.0	14699.4	14382.2	10775.3
52.5°	6565.1	6757.4	7079.4	7882.0	9376.7	11027.6	13296.1	13877.6	14180.4	14113.1	10506.1
55°	4150.1	4207.7	4402.4	5356.4	6702.1	8850.4	11397.7	12745.8	13286.5	13538.8	10258.6
57.5°	2016.2	1908.0	2145.9	2912.5	3871.3	5952.4	8790.4	11102.1	12277.2	12733.8	9720.3
60°	1052.5	1093.4	1187.1	1461.1	2001.7	3090.3	5479.0	7399.0	9194.1	9895.8	7367.7
62.5°	872.3	886.7	949.2	1086.2	1331.3	1778.3	2797.1	3607.0	4688.3	5320.3	4190.9
65°	740.1	747.3	814.6	905.9	1062.1	1252.0	1439.4	1506.7	1823.9	1872.0	1489.9
67.5°	617.6	624.8	696.9	783.4	884.3	934.8	982.8	978.0	1014.1	999.7	997.3
70°	475.8	483.0	557.5	648.8	699.3	670.5	819.4	853.1	867.5	879.5	898.7
72.5°	343.6	358.1	415.7	480.6	454.2	521.5	675.3	725.7	744.9	752.2	776.2
75°	249.9	254.7	269.1	249.9	288.4	362.9	475.8	538.3	562.3	569.5	605.6
77.5°	110.5	112.9	115.3	144.2	185.0	225.9	283.6	334.0	367.7	377.3	386.9
80°	57.7	60.1	74.5	98.5	132.2	165.8	206.7	235.5	257.1	259.5	269.1
82.5°	36.0	38.4	52.9	69.7	93.7	122.6	151.4	175.4	192.2	194.6	197.0
85°	16.8	21.6	31.2	43.3	62.5	79.3	81.7	69.7	74.5	76.9	72.1
87.5°	4.8	7.2	9.6	7.2	9.6	9.6	12.0	14.4	14.4	14.4	16.8
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°	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4	2703.4
2.5°	2746.7	2725.1	2641.0	2609.7	2528.0	2542.4	2499.2	2496.8	2487.2	2484.8	2482.3
5°	2814.0	2746.7	2645.8	2568.9	2523.2	2518.4	2487.2	2487.2	2496.8	2504.0	2487.2
7.5°	2924.5	2847.6	2677.0	2604.9	2564.1	2556.8	2535.2	2518.4	2540.0	2532.8	2513.6
10°	3051.9	2917.3	2737.1	2674.6	2607.3	2590.5	2590.5	2597.7	2561.6	2573.7	2554.4
12.5°	3193.7	3013.4	2814.0	2741.9	2662.6	2653.0	2648.2	2595.3	2614.5	2604.9	2556.8
15°	3373.9	3124.0	2912.5	2789.9	2722.7	2679.4	2616.9	2607.3	2595.3	2571.3	2549.6
17.5°	3568.5	3244.1	2958.2	2804.4	2703.4	2672.2	2624.1	2573.7	2537.6	2542.4	2525.6
20°	3734.3	3354.7	2975.0	2818.8	2689.0	2628.9	2554.4	2523.2	2484.8	2482.3	2479.9
22.5°	3931.4	3503.6	2999.0	2780.3	2645.8	2583.3	2532.8	2477.5	2451.1	2417.5	2434.3
25°	4166.9	3561.3	3003.8	2758.7	2614.5	2504.0	2477.5	2417.5	2407.9	2359.8	2369.4
27.5°	4337.5	3592.6	2965.4	2691.4	2542.4	2458.3	2410.3	2367.0	2350.2	2314.1	2304.5
30°	4565.8	3640.6	2883.7	2607.3	2470.3	2376.6	2347.8	2338.2	2290.1	2251.7	2246.9
32.5°	4825.3	3671.9	2830.8	2520.8	2395.8	2323.7	2338.2	2292.5	2232.4	2198.8	2189.2
35°	5032.0	3683.9	2698.6	2422.3	2345.4	2299.7	2282.9	2273.3	2186.8	2155.5	2131.5
37.5°	5346.8	3657.4	2588.1	2352.6	2290.1	2273.3	2258.9	2194.0	2095.5	2049.8	2016.2
40°	5714.4	3650.2	2446.3	2254.1	2237.2	2256.5	2213.2	2112.3	1975.3	1924.8	1900.8
42.5°	6067.7	3700.7	2357.4	2201.2	2179.6	2186.8	2126.7	1975.3	1908.0	1879.2	1840.7
45°	6658.8	3806.4	2210.8	2119.5	2109.9	2105.1	2033.0	1874.4	1835.9	1799.9	1792.7
47.5°	7192.3	3736.7	2117.1	2035.4	2045.0	2018.6	1864.8	1814.3	1771.0	1735.0	1723.0
50°	7223.6	3570.9	1984.9	1970.5	1972.9	1927.2	1780.7	1747.0	1691.7	1667.7	1650.9
52.5°	7060.2	3299.4	1862.4	1867.2	1874.4	1799.9	1677.3	1653.3	1607.6	1574.0	1564.4
55°	6601.2	2876.4	1742.2	1761.4	1780.7	1638.9	1600.4	1540.4	1504.3	1456.2	1458.7
57.5°	5815.4	2316.5	1574.0	1605.2	1646.1	1489.9	1461.1	1386.6	1333.7	1295.2	1290.4
60°	3897.7	1648.5	1321.7	1333.7	1425.0	1362.5	1360.1	1285.6	1213.5	1179.9	1160.7
62.5°	2299.7	1259.2	1141.4	1129.4	1127.0	1163.1	1223.2	1196.7	1103.0	1038.1	1057.3
65°	1203.9	1088.6	1062.1	1021.3	997.3	987.7	1033.3	1045.3	982.8	913.2	908.4
67.5°	1011.7	1011.7	990.1	975.6	942.0	901.1	872.3	833.9	824.2	805.0	781.0
70°	920.4	944.4	937.2	903.5	874.7	829.1	754.6	692.1	632.0	610.4	624.8
72.5°	802.6	826.6	826.6	809.8	771.4	701.7	629.6	557.5	507.0	468.6	463.8
75°	617.6	629.6	658.4	639.2	588.7	545.5	471.0	396.5	348.4	312.4	305.2
77.5°	394.1	413.3	413.3	410.9	374.9	334.0	286.0	233.1	197.0	170.6	163.4
80°	261.9	273.9	283.6	273.9	249.9	218.7	182.6	146.6	120.2	98.5	93.7
82.5°	192.2	206.7	213.9	204.3	180.2	156.2	129.8	103.3	76.9	60.1	55.3
85°	74.5	76.9	86.5	103.3	100.9	98.5	79.3	57.7	43.3	31.2	28.8
87.5°	19.2	16.8	19.2	19.2	16.8	14.4	14.4	14.4	14.4	7.2	9.6
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)