

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: P527608

Luminaire Tested: **GALN-SA2C-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527608  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-827-U-SL2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8809 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

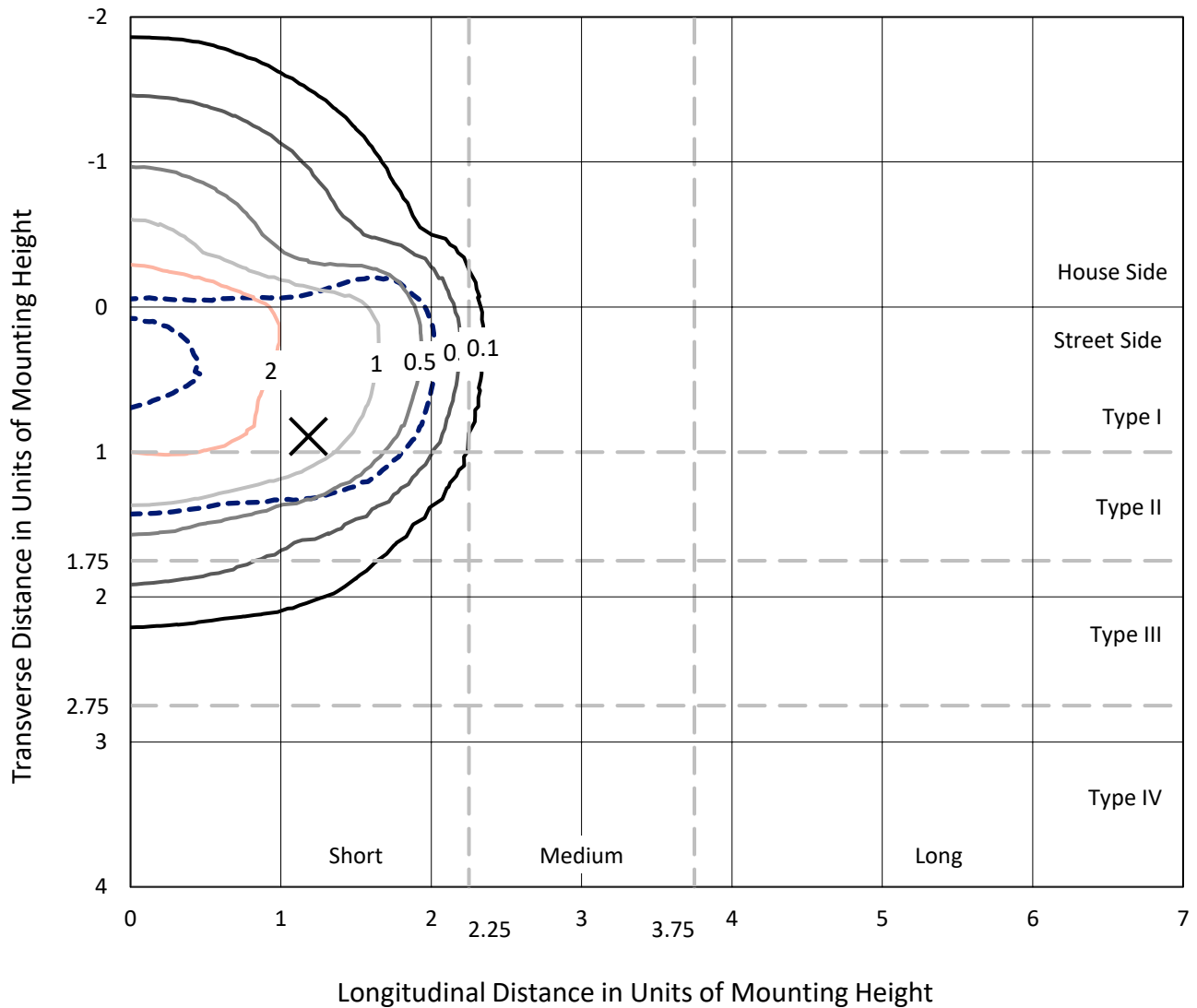
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

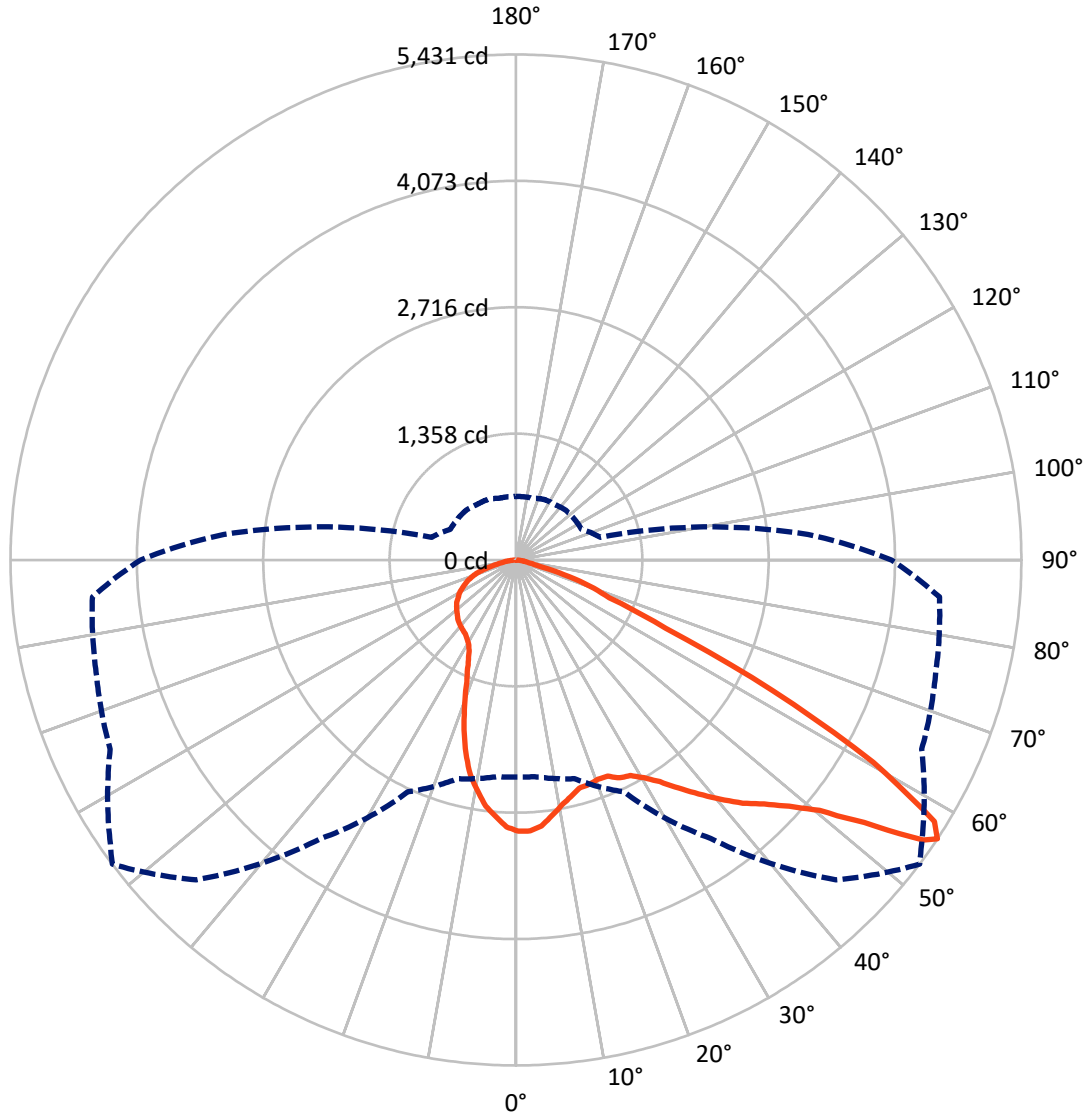
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2570.7	0.0	2570.7
	% Fixture	29.2	0.0	29.2
<b>Street Side</b>	Lumens	6238.3	0.0	6238.3
	% Fixture	70.8	0.0	70.8
<b>Total</b>	Lumens	8809.0	0.0	8809.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.0	2.9
10°-20°	644.4	7.3
20°-30°	950.2	10.8
30°-40°	1357.7	15.4
40°-50°	1868.6	21.2
50°-60°	2208.2	25.1
60°-70°	1176.8	13.4
70°-80°	298.6	3.4
80°-90°	46.6	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°	8809.0	100.0
0°-180°	8809.0	100.0

**Coefficient of Utilization**

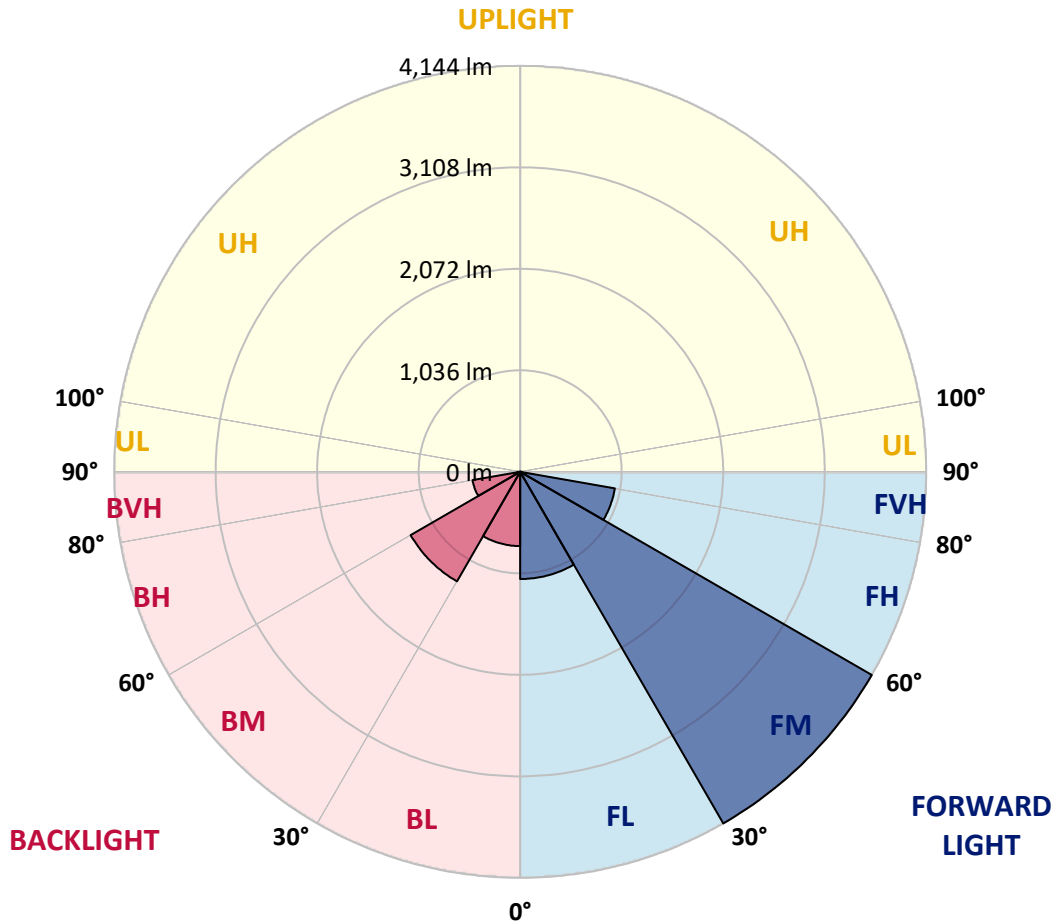


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1094.4	12.4			
FM (30°-60°)	4143.6	47.0			
FH (60°-80°)	981.7	11.1			G1/1800
FVH (80°-90°)	18.7	0.2			G1/100
BL (0°-30°)	758.2	8.6	B2/1000		
BM (30°-60°)	1290.9	14.7	B2/2500		
BH (60°-80°)	493.7	5.6	B1/500		G1/500
BVH (80°-90°)	27.8	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2914.4	2914.4	2914.4	2914.4	2914.4	2914.4	2914.4	2914.4	2914.4	2914.4	2914.4
2.5°	2878.2	2853.3	2868.0	2862.4	2908.7	2922.3	2915.5	2921.1	2947.1	2934.7	2908.7
5°	2689.5	2724.5	2731.3	2748.2	2775.4	2828.5	2870.3	2881.6	2894.0	2951.7	2946.0
7.5°	2517.7	2541.5	2529.0	2578.7	2637.5	2723.4	2774.2	2783.3	2897.4	2929.1	2952.8
10°	2409.2	2385.5	2442.0	2455.6	2522.2	2620.6	2681.6	2718.9	2822.8	2948.3	2963.0
12.5°	2308.7	2300.8	2334.7	2373.1	2447.7	2549.4	2611.5	2626.2	2786.7	2918.9	2987.8
15°	2234.1	2225.0	2258.9	2287.2	2374.2	2464.6	2543.7	2585.5	2747.1	2901.9	2966.3
17.5°	2175.3	2174.2	2193.4	2244.3	2333.5	2409.2	2536.9	2539.2	2726.8	2927.9	2984.4
20°	2171.9	2170.8	2174.2	2230.7	2312.1	2404.7	2515.5	2535.8	2726.8	2909.8	2985.6
22.5°	2200.2	2182.1	2202.4	2238.6	2297.4	2412.6	2523.4	2568.6	2792.3	2999.1	3036.4
25°	2245.4	2249.9	2261.2	2273.6	2307.5	2430.7	2593.4	2630.7	2869.2	3076.0	3106.5
27.5°	2327.9	2325.6	2330.1	2336.9	2366.3	2447.7	2621.7	2717.7	3029.6	3212.7	3182.2
30°	2448.8	2440.9	2459.0	2482.7	2455.6	2501.9	2715.5	2787.8	3178.8	3350.6	3266.9
32.5°	2558.4	2587.8	2621.7	2631.9	2599.1	2608.1	2839.8	2913.2	3303.1	3520.1	3370.9
35°	2695.1	2718.9	2764.1	2795.7	2790.1	2762.9	3009.3	3106.5	3482.8	3644.4	3480.5
37.5°	2828.5	2856.7	2931.3	3025.1	2973.1	2960.7	3190.1	3270.3	3538.1	3711.0	3560.7
40°	3043.2	3042.1	3170.9	3219.5	3265.8	3244.3	3377.7	3404.8	3567.5	3696.3	3563.0
42.5°	3295.2	3279.4	3410.5	3486.2	3546.1	3548.3	3573.2	3564.1	3581.1	3621.8	3539.3
45°	3534.8	3568.7	3700.9	3836.5	3896.4	3903.1	3738.2	3721.2	3604.8	3600.3	3494.1
47.5°	3827.4	3835.3	3943.8	4122.4	4261.4	4213.9	3951.7	3914.4	3708.8	3743.8	3569.8
50°	3844.4	3903.1	4000.3	4210.5	4637.7	4625.2	4228.6	4158.5	3876.0	3947.2	3781.1
52.5°	3489.6	3476.0	3591.3	3934.8	4609.4	5034.3	4687.4	4520.1	4235.4	4181.1	4123.5
55°	2659.0	2690.6	2792.3	3139.2	4002.6	5040.0	5312.3	5175.6	4619.6	4526.9	4460.3
56°	2332.4	2336.9	2433.0	2749.4	3652.3	4860.3	5431.0	5320.2	4810.6	4669.3	4567.6
57.5°	1933.5	1907.5	1957.2	2130.1	3082.7	4480.6	5301.0	5409.5	5034.3	4823.0	4681.7
60°	1522.2	1516.5	1496.2	1527.8	1948.2	3375.4	4412.8	4656.9	5011.7	4678.4	4484.0
62.5°	1243.0	1214.8	1255.5	1300.7	1353.8	2094.0	3100.8	3244.3	3978.9	3734.8	3368.6
65°	963.9	950.4	1001.2	1148.1	1179.8	1330.1	1766.2	1877.0	2349.3	2307.5	2031.8
67.5°	663.3	665.6	709.7	933.4	1093.9	1080.3	1081.4	1139.1	1226.1	910.8	793.3
70°	420.4	419.2	443.0	601.2	880.3	889.3	844.1	827.2	784.2	474.6	502.9
72.5°	270.1	262.2	274.6	332.2	455.4	526.6	542.4	552.6	454.3	372.9	404.6
75°	152.6	144.6	140.1	154.8	179.7	207.9	228.3	235.0	263.3	282.5	299.5
77.5°	46.3	41.8	50.9	67.8	89.3	119.8	145.8	150.3	177.4	200.0	217.0
80°	20.3	22.6	31.6	45.2	63.3	84.8	102.8	109.6	127.7	144.6	149.2
82.5°	12.4	13.6	21.5	30.5	44.1	59.9	73.5	75.7	93.8	107.4	110.7
85°	4.5	5.7	11.3	18.1	28.3	38.4	38.4	41.8	38.4	38.4	41.8
87.5°	0.0	0.0	1.1	2.3	2.3	3.4	4.5	4.5	5.7	6.8	7.9
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°	2914.4	2914.4	2914.4	2914.4	2914.4	2914.4	2914.4	2914.4	2914.4	2914.4	2914.4
2.5°	2922.3	2916.6	2907.6	2874.8	2871.4	2861.3	2804.8	2795.7	2804.8	2777.6	2779.9
5°	2916.6	2933.6	2865.8	2833.0	2772.0	2727.9	2677.1	2651.1	2604.7	2575.4	2608.1
7.5°	2941.5	2934.7	2850.0	2778.8	2687.2	2575.4	2486.1	2435.2	2353.9	2331.3	2348.2
10°	2932.4	2896.3	2796.8	2703.0	2530.2	2431.8	2287.2	2147.1	2070.2	2030.7	2025.0
12.5°	2920.0	2909.8	2743.7	2582.1	2400.2	2193.4	1990.0	1857.8	1732.3	1678.1	1686.0
15°	2934.7	2848.8	2644.3	2439.7	2197.9	1926.7	1707.5	1536.8	1449.8	1414.8	1414.8
17.5°	2927.9	2819.4	2596.8	2280.4	1974.2	1653.2	1412.5	1309.7	1273.6	1273.6	1283.7
20°	2931.3	2838.7	2500.8	2121.1	1709.7	1392.2	1217.0	1179.8	1195.6	1201.2	1206.9
22.5°	2950.5	2775.4	2407.0	1945.9	1464.5	1191.1	1105.2	1106.3	1134.6	1165.1	1159.4
25°	2974.3	2750.5	2292.8	1771.9	1276.9	1092.7	1065.6	1062.2	1083.7	1099.5	1101.8
27.5°	2953.9	2707.6	2176.5	1554.9	1123.3	1027.2	1021.6	1023.8	1030.6	1062.2	1052.1
30°	3020.6	2720.0	2030.7	1373.0	1038.5	1005.7	999.0	995.6	1005.7	1014.8	1006.9
32.5°	3103.1	2675.9	1922.2	1197.8	996.7	989.9	976.4	971.8	977.5	968.4	973.0
35°	3139.2	2668.0	1780.9	1072.4	963.9	958.3	950.4	949.2	950.4	942.5	935.7
37.5°	3159.6	2705.3	1619.3	1014.8	943.6	949.2	931.2	928.9	908.5	913.1	916.5
40°	3194.6	2647.7	1488.3	959.4	931.2	919.8	904.0	900.6	887.1	879.2	887.1
42.5°	3143.8	2630.7	1359.4	935.7	913.1	900.6	889.3	870.1	865.6	858.8	854.3
45°	3103.1	2533.5	1244.2	906.3	891.6	884.8	863.3	843.0	826.1	832.8	822.7
47.5°	3133.6	2499.6	1130.0	881.4	862.2	854.3	832.8	817.0	800.1	792.2	789.9
50°	3255.6	2562.9	1034.0	863.3	837.4	832.8	804.6	786.5	770.7	765.0	767.3
52.5°	3547.2	2735.8	968.4	826.1	813.6	793.3	777.5	754.9	744.7	726.6	737.9
55°	3916.7	3017.2	951.5	791.0	784.2	766.2	744.7	727.7	708.5	693.8	690.5
56°	4035.4	3151.7	937.9	777.5	766.2	756.0	727.7	717.6	687.1	683.7	681.4
57.5°	4131.4	3270.3	940.2	751.5	740.2	731.1	714.2	689.3	669.0	656.6	662.2
60°	3914.4	3061.3	897.2	711.9	709.7	692.7	669.0	657.7	632.8	618.1	614.7
62.5°	2909.8	2078.1	727.7	661.1	659.9	641.9	614.7	602.3	597.8	577.4	577.4
65°	1675.8	1302.9	629.4	619.3	610.2	592.1	565.0	554.8	543.5	536.8	531.1
67.5°	715.3	675.8	571.8	570.7	560.5	537.9	510.8	495.0	480.3	466.7	473.5
70°	518.7	526.6	516.4	510.8	498.3	470.1	446.4	427.2	404.6	395.5	402.3
72.5°	411.3	428.3	443.0	444.1	429.4	396.6	370.7	344.7	319.8	307.4	313.0
75°	311.9	323.2	337.9	341.3	319.8	297.2	272.3	245.2	226.0	211.3	213.6
77.5°	224.9	222.6	236.2	233.9	223.7	207.9	185.3	160.5	139.0	125.4	126.6
80°	153.7	157.1	165.0	163.9	151.4	141.3	124.3	104.0	88.1	76.8	74.6
82.5°	107.4	113.0	119.8	114.1	104.0	93.8	81.4	66.7	54.2	45.2	42.9
85°	38.4	44.1	50.9	54.2	57.6	55.4	46.3	37.3	27.1	22.6	21.5
87.5°	7.9	9.0	10.2	10.2	10.2	9.0	7.9	7.9	6.8	3.4	3.4
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)