

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: P527454

Luminaire Tested: **GALN-SA2C-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527454  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-727-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

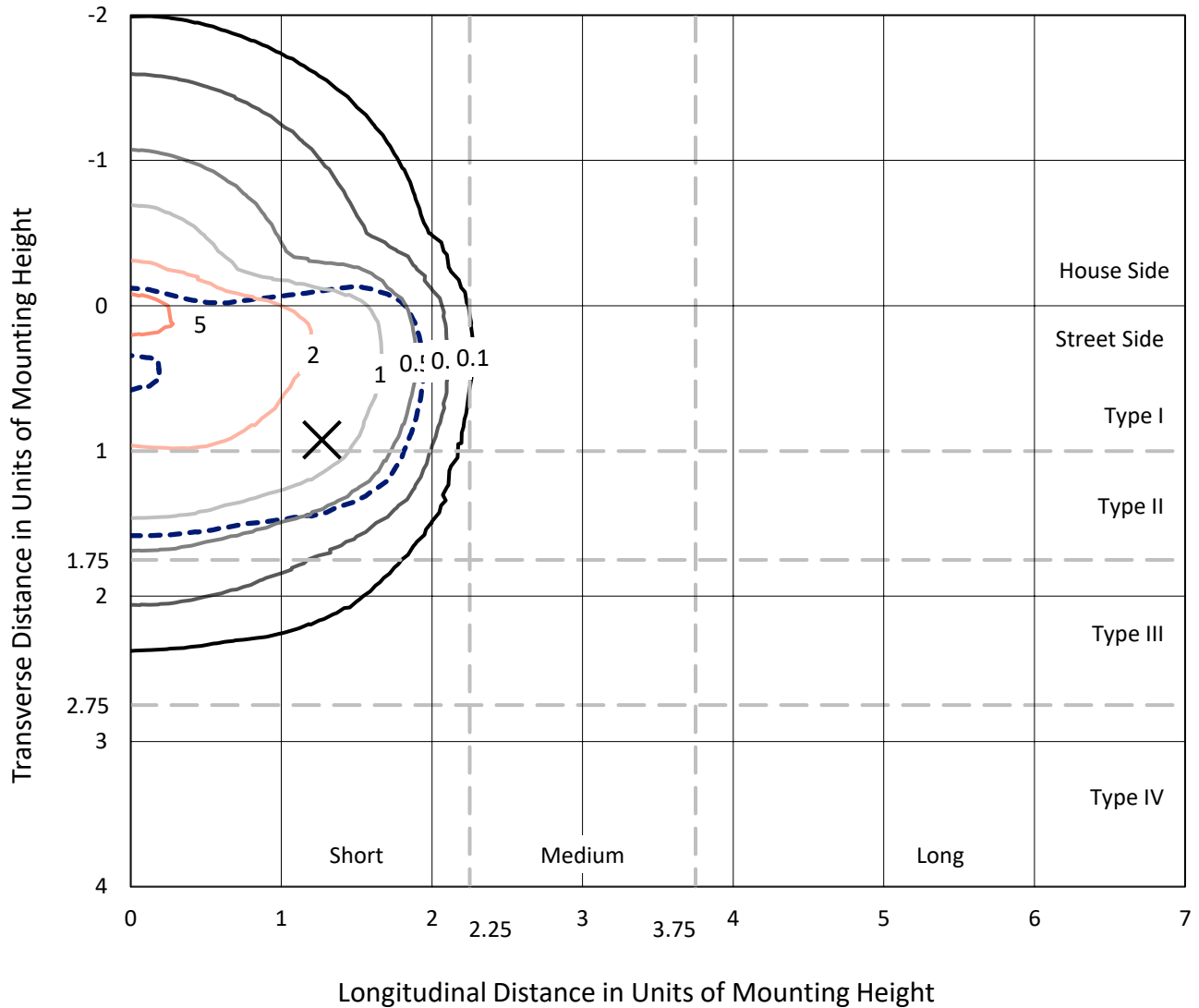
Lumens per Lamp: N/A  
Luminaire Lumens: 10003 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

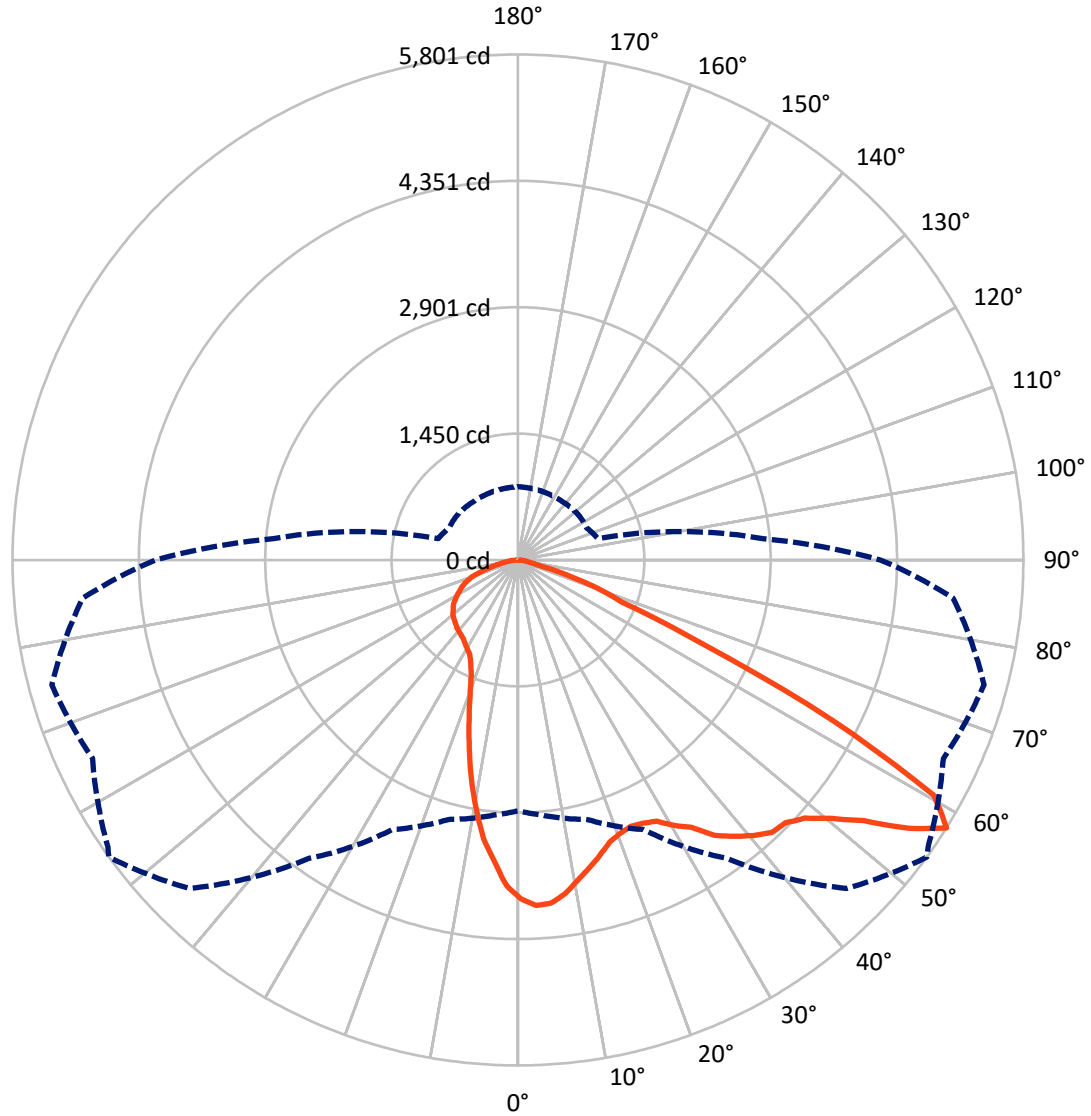
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2767.4	0.0	2767.4
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	7235.6	0.0	7235.6
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	10003.0	0.0	10003.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.3	3.4
10°-20°	776.4	7.8
20°-30°	1090.8	10.9
30°-40°	1524.9	15.2
40°-50°	2064.5	20.6
50°-60°	2514.6	25.1
60°-70°	1309.7	13.1
70°-80°	335.6	3.4
80°-90°	51.2	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°	10003.0	100.0
0°-180°	10003.0	100.0

**Coefficient of Utilization**



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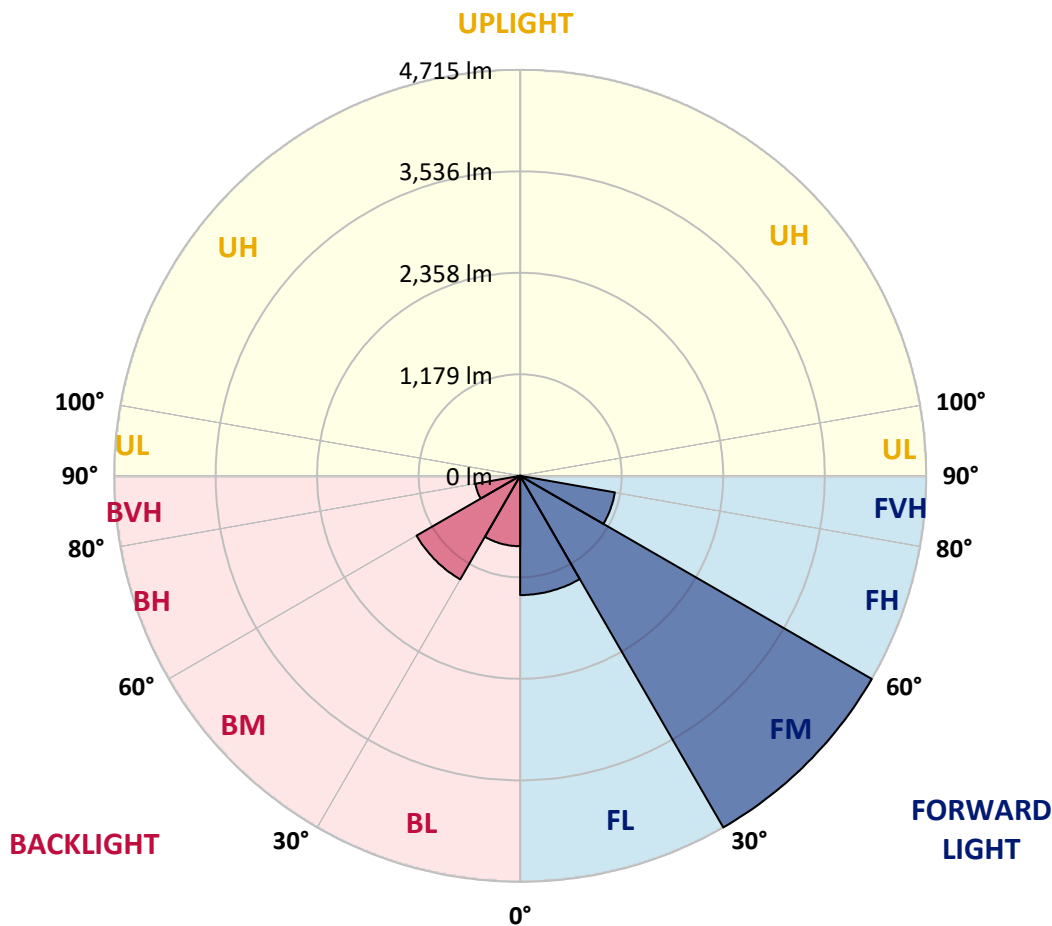
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1384.6	13.8			
FM (30°-60°)	4715.1	47.1			
FH (60°-80°)	1116.6	11.2			G1/1800
FVH (80°-90°)	19.3	0.2			G1/100
BL (0°-30°)	817.9	8.2	B2/1000		
BM (30°-60°)	1388.9	13.9	B2/2500		
BH (60°-80°)	528.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	31.9	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°	54°	55°	65°	75°	85°
0°	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1
2.5°	3998.6	3983.2	3985.8	4006.3	3980.6	3970.3	3970.3	3920.2	3924.1	3889.3	3880.3
5°	3906.1	3870.1	3894.5	3925.3	3930.5	3940.8	3957.5	3944.6	3908.6	3871.3	3810.9
7.5°	3664.3	3696.5	3705.5	3727.3	3773.6	3816.1	3868.8	3832.8	3831.5	3794.2	3758.2
10°	3452.2	3432.9	3481.8	3513.9	3591.0	3661.8	3742.8	3738.9	3758.2	3715.8	3654.0
12.5°	3241.3	3225.9	3249.0	3322.3	3430.3	3533.2	3629.6	3593.6	3696.5	3688.8	3556.3
15°	3017.6	3029.2	3062.6	3130.8	3272.2	3395.6	3517.8	3519.0	3610.3	3641.2	3463.8
17.5°	2860.8	2847.9	2890.3	2991.9	3117.9	3265.8	3404.6	3432.9	3573.0	3591.0	3435.5
20°	2743.8	2761.8	2817.0	2868.5	3013.8	3192.5	3349.3	3359.6	3565.3	3614.2	3390.5
22.5°	2715.5	2705.2	2723.2	2806.8	2926.3	3120.5	3319.8	3358.3	3564.0	3606.5	3305.6
25°	2685.9	2719.3	2718.0	2801.6	2889.0	3062.6	3344.2	3386.6	3632.2	3646.3	3317.2
27.5°	2752.8	2748.9	2784.9	2791.3	2899.3	3078.0	3395.6	3427.8	3745.3	3733.8	3326.2
30°	2819.6	2800.3	2822.2	2898.0	2948.2	3166.8	3537.0	3534.5	3891.9	3884.2	3354.5
32.5°	2901.9	2892.9	2907.0	2973.9	3058.8	3285.0	3656.6	3732.5	4041.1	4089.9	3452.2
35°	2917.3	2954.6	2988.0	3078.0	3198.9	3476.6	3881.6	3944.6	4213.3	4366.3	3638.6
37.5°	3015.0	3029.2	3107.6	3267.0	3377.6	3732.5	4024.3	4064.2	4370.2	4543.8	3835.3
40°	3119.2	3135.9	3254.2	3421.3	3573.0	3899.6	4158.1	4170.9	4420.3	4680.1	3963.9
42.5°	3260.6	3276.0	3393.0	3602.6	3805.8	4042.3	4276.3	4290.5	4416.5	4836.9	4168.3
45°	3407.2	3444.5	3582.0	3819.9	4002.5	4209.5	4303.3	4361.2	4452.5	4977.1	4334.2
47.5°	3612.9	3647.6	3760.8	3993.5	4206.9	4356.1	4428.1	4484.6	4538.6	5099.2	4440.9
50°	3831.5	3837.9	3975.5	4186.3	4343.2	4521.9	4660.8	4680.1	4651.8	5240.6	4622.2
52.5°	3992.2	4012.8	4119.5	4325.2	4559.2	4779.1	4969.4	4989.9	4934.6	5293.4	4683.9
55°	3726.0	3714.5	3888.1	4161.9	4704.5	5162.2	5438.6	5454.1	5140.4	5456.6	4885.8
57.5°	2880.0	2935.3	3083.2	3413.6	4179.9	5331.9	5801.2	5745.9	5387.2	5538.9	5014.4
60°	2093.2	2080.3	2179.3	2400.5	3150.0	4595.2	5484.9	5541.5	5185.4	4992.5	4134.9
62.5°	1704.9	1686.9	1694.6	1702.3	2032.7	3049.8	4060.3	4059.1	3993.5	3588.5	2788.8
65°	1362.9	1405.3	1409.2	1467.0	1509.4	1821.9	2352.9	2478.9	2158.7	1770.5	1284.4
67.5°	1027.3	1011.9	1063.3	1269.0	1348.7	1315.3	1284.4	1298.6	923.2	666.0	627.4
70°	605.6	599.2	660.9	884.6	1110.9	1045.3	968.2	969.4	633.9	465.4	518.1
72.5°	331.7	330.4	343.3	448.7	631.3	655.7	581.2	599.2	378.0	376.7	405.0
75°	185.1	181.3	177.4	198.0	227.6	240.4	245.6	248.1	259.7	290.6	302.1
77.5°	68.1	65.6	65.6	75.9	96.4	120.9	153.0	155.6	183.9	210.9	222.4
80°	23.1	25.7	34.7	47.6	64.3	86.1	104.1	106.7	129.9	147.9	151.7
82.5°	14.1	15.4	23.1	33.4	46.3	60.4	77.1	78.4	96.4	108.0	113.1
85°	6.4	7.7	12.9	20.6	29.6	39.9	41.1	41.1	39.9	41.1	38.6
87.5°	0.0	0.0	2.6	2.6	2.6	3.9	5.1	3.9	6.4	7.7	7.7
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°	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1	3888.1
2.5°	3853.3	3839.2	3795.5	3756.9	3745.3	3693.9	3618.0	3627.0	3571.8	3597.5	3570.5
5°	3800.6	3753.0	3641.2	3593.6	3468.9	3412.3	3373.8	3277.3	3232.3	3223.3	3184.8
7.5°	3665.6	3636.0	3495.9	3367.3	3234.9	3121.8	2976.5	2877.5	2806.8	2787.5	2730.9
10°	3558.9	3493.3	3299.2	3103.8	2914.8	2718.0	2529.0	2381.2	2309.2	2225.6	2197.3
12.5°	3453.5	3354.5	3092.2	2841.5	2597.2	2349.0	2120.2	1940.2	1783.3	1746.0	1733.2
15°	3387.9	3215.6	2907.0	2604.9	2257.7	1933.7	1704.9	1586.6	1490.2	1450.3	1478.6
17.5°	3301.8	3101.2	2729.6	2327.2	1945.3	1647.0	1455.4	1382.2	1347.4	1351.3	1339.7
20°	3193.8	2993.2	2496.9	2075.2	1666.3	1428.4	1319.2	1292.2	1297.3	1306.3	1302.4
22.5°	3116.6	2862.0	2328.5	1818.0	1440.0	1307.6	1262.6	1243.3	1260.0	1267.7	1261.3
25°	3057.5	2750.2	2124.0	1590.4	1308.9	1239.4	1218.9	1217.6	1243.3	1253.6	1247.2
27.5°	3003.5	2646.0	1920.9	1416.9	1221.4	1186.7	1180.3	1195.7	1212.4	1222.7	1231.7
30°	2971.3	2566.3	1730.6	1271.6	1177.7	1161.0	1149.4	1163.6	1172.6	1182.9	1177.7
32.5°	3002.2	2509.7	1546.7	1189.3	1141.7	1125.0	1140.4	1131.4	1146.9	1155.9	1141.7
35°	3098.6	2459.6	1415.6	1145.6	1100.6	1107.0	1109.6	1105.7	1112.2	1104.4	1121.2
37.5°	3193.8	2441.6	1294.7	1108.3	1081.3	1081.3	1078.7	1071.0	1083.9	1081.3	1089.0
40°	3314.6	2453.2	1191.9	1068.4	1063.3	1060.7	1050.4	1049.2	1044.0	1045.3	1047.9
42.5°	3420.0	2478.9	1132.7	1042.7	1046.6	1051.7	1032.4	1017.0	1023.4	1010.6	1010.6
45°	3531.9	2502.0	1080.0	1024.7	1020.9	1019.6	1004.2	995.2	990.0	991.3	1002.9
47.5°	3708.0	2535.5	1040.2	1000.3	1002.9	983.6	979.7	968.2	973.3	981.0	982.3
50°	3832.8	2606.2	1009.3	972.0	981.0	968.2	945.0	939.9	939.9	952.7	950.2
52.5°	3920.2	2705.2	979.7	941.2	945.0	934.7	927.0	915.4	907.7	925.7	934.7
55°	4187.6	2869.8	972.0	915.4	914.2	903.9	889.7	878.2	874.3	876.9	894.9
57.5°	4161.9	2818.3	947.6	870.4	867.9	853.7	839.6	835.7	834.4	837.0	842.2
60°	3378.9	2081.6	846.0	819.0	815.2	812.6	798.4	783.0	775.3	783.0	776.6
62.5°	2235.9	1393.7	745.7	757.3	759.9	753.4	730.3	714.9	717.4	726.4	712.3
65°	1098.0	819.0	676.3	707.2	709.7	691.7	669.9	651.9	642.9	650.6	644.2
67.5°	627.4	626.2	619.7	651.9	650.6	632.6	597.9	582.4	567.0	569.6	565.7
70°	532.3	542.6	555.4	574.7	573.4	552.9	511.7	500.1	478.3	475.7	469.3
72.5°	419.1	437.1	465.4	479.6	468.0	442.3	415.3	396.0	376.7	365.1	369.0
75°	311.1	336.9	352.3	361.3	343.3	329.1	307.3	284.1	261.0	250.7	246.9
77.5°	226.3	234.0	248.1	254.6	243.0	228.9	216.0	192.9	171.0	156.9	153.0
80°	158.1	163.3	173.6	173.6	173.6	167.1	150.4	127.3	113.1	100.3	97.7
82.5°	110.6	115.7	126.0	120.9	119.6	111.9	101.6	83.6	68.1	59.1	56.6
85°	38.6	42.4	51.4	61.7	65.6	64.3	57.9	46.3	36.0	29.6	27.0
87.5°	9.0	9.0	10.3	9.0	9.0	10.3	9.0	9.0	9.0	6.4	5.1
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)