

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: P528387

Luminaire Tested: **GALN-SA3C-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-727-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10245 lumens  
Efficiency: N/A  
Efficacy: 64.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

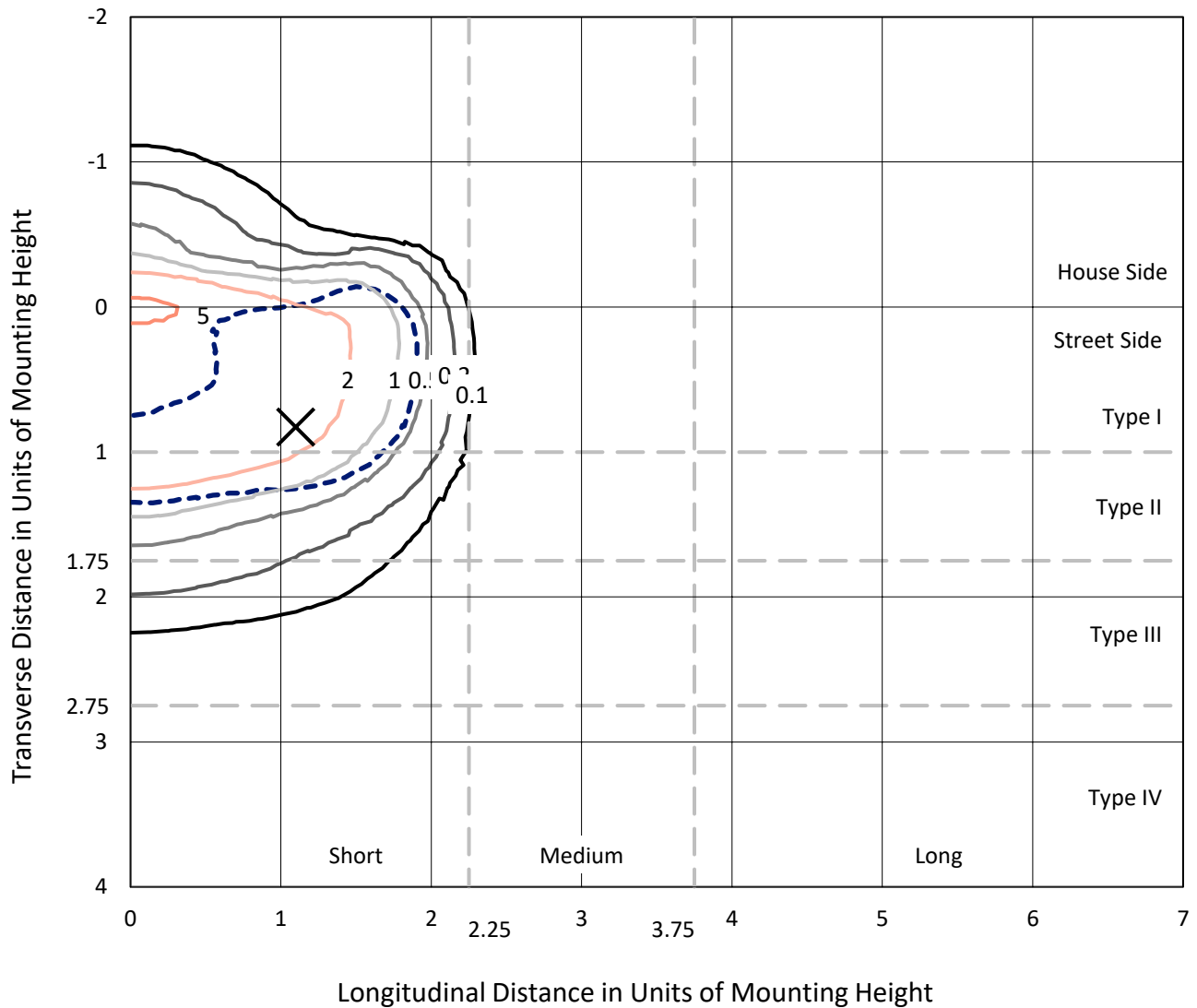
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

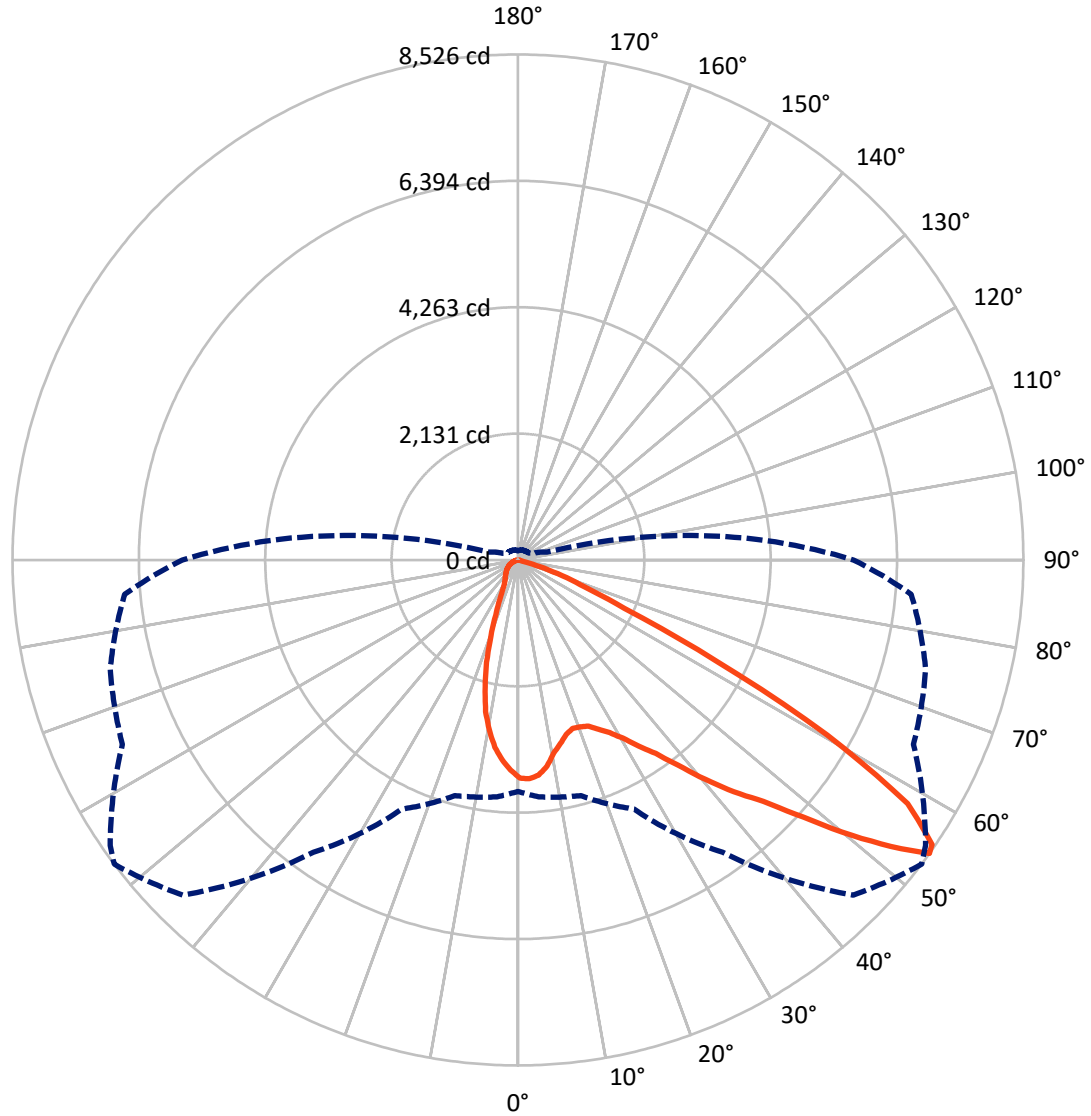
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1695.1	0.0	1695.1
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	8549.9	0.0	8549.9
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	10245.0	0.0	10245.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.7	3.1
10°-20°	723.8	7.1
20°-30°	1028.7	10.0
30°-40°	1587.6	15.5
40°-50°	2489.2	24.3
50°-60°	2891.6	28.2
60°-70°	1092.6	10.7
70°-80°	103.9	1.0
80°-90°	11.7	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°	10245.0	100.0
0°-180°	10245.0	100.0

**Coefficient of Utilization**



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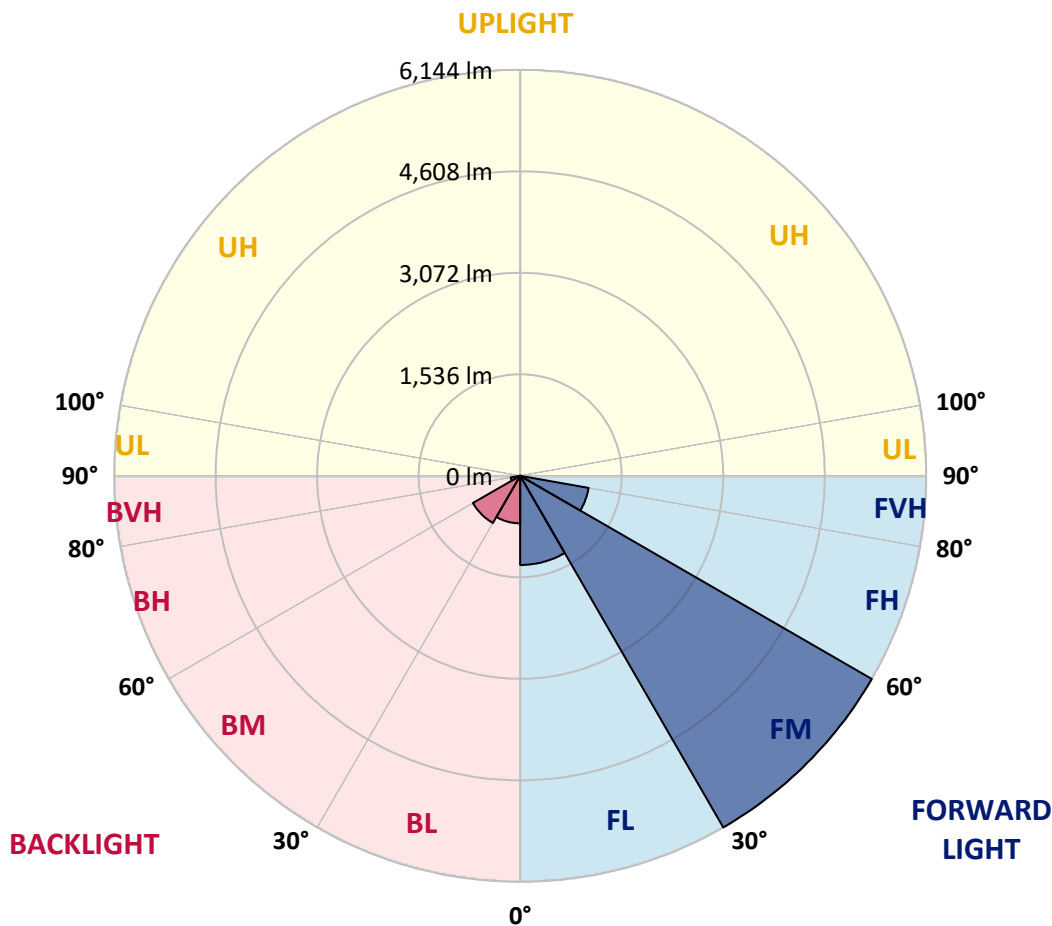
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1349.0	13.2			
FM (30°-60°)	6143.6	60.0			
FH (60°-80°)	1051.3	10.3			G1/1800
FVH (80°-90°)	6.0	0.1			G0/10
BL (0°-30°)	719.3	7.0	B2/1000		
BM (30°-60°)	824.9	8.1	B1/1000		
BH (60°-80°)	145.2	1.4	B1/500		G1/500
BVH (80°-90°)	5.6	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°	53°	55°	65°	75°	85°
0°	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8
2.5°	3660.7	3628.3	3660.7	3664.6	3687.5	3708.5	3695.1	3725.6	3708.5	3689.4	3683.6
5°	3364.9	3408.8	3410.7	3479.4	3464.2	3590.1	3645.5	3630.2	3723.7	3718.0	3704.6
7.5°	3099.6	3082.4	3105.3	3185.5	3286.7	3431.7	3511.9	3510.0	3643.6	3739.0	3729.5
10°	2853.4	2851.5	2899.2	2962.2	3048.1	3200.8	3311.5	3366.8	3574.9	3719.9	3740.9
12.5°	2687.3	2679.7	2731.2	2782.8	2918.3	3036.6	3177.9	3204.6	3443.2	3653.1	3687.5
15°	2578.6	2595.7	2599.5	2698.8	2784.7	2941.2	3051.9	3107.2	3382.1	3599.7	3731.4
17.5°	2559.5	2582.4	2584.3	2666.4	2758.0	2889.7	2987.0	3061.4	3330.6	3626.4	3733.3
20°	2597.6	2584.3	2595.7	2647.3	2737.0	2862.9	3004.2	3029.0	3313.4	3639.8	3754.3
22.5°	2706.4	2702.6	2674.0	2716.0	2779.0	2910.7	3044.3	3082.4	3363.0	3708.5	3771.4
25°	2826.7	2847.7	2820.9	2815.2	2859.1	2988.9	3166.4	3216.0	3529.0	3832.5	3824.9
27.5°	3051.9	3030.9	3030.9	3004.2	2992.7	3055.7	3298.1	3380.2	3714.2	3992.8	3886.0
30°	3267.6	3290.5	3273.3	3282.8	3206.5	3200.8	3485.2	3586.3	4042.5	4237.2	4015.7
32.5°	3609.2	3578.7	3607.3	3582.5	3481.3	3378.3	3739.0	3844.0	4439.5	4517.7	4210.4
35°	3893.6	3880.2	4002.4	3998.6	3834.4	3733.3	4008.1	4164.6	4716.2	4853.6	4439.5
37.5°	4298.2	4273.4	4412.7	4479.5	4332.6	4181.8	4393.7	4575.0	4973.9	5122.8	4674.2
40°	4714.3	4777.3	4964.3	5075.0	4918.5	4718.1	4865.1	4920.4	5145.7	5298.3	4834.6
42.5°	5241.1	5332.7	5523.6	5619.0	5605.6	5388.1	5344.2	5342.2	5269.7	5248.7	4952.9
45°	5746.9	5712.5	6006.4	6214.5	6382.4	6319.5	5806.0	5748.8	5466.3	5323.2	4983.4
47.5°	5968.3	5956.8	6157.2	6527.5	7100.1	7178.3	6477.9	6256.5	5798.4	5636.2	5149.5
50°	5682.0	5741.1	5939.6	6350.0	7228.0	7825.4	7302.4	7004.7	6185.9	6017.9	5542.7
52.5°	4746.8	4786.8	4975.8	5496.8	6792.8	8207.1	8092.6	7920.8	6897.8	6619.1	6227.8
54°	3903.1	4010.0	4113.1	4636.1	6017.9	7995.2	8525.8	8394.1	7361.6	7119.2	6659.2
55°	3399.3	3462.2	3536.7	4057.7	5481.6	7636.4	8476.2	8487.7	7672.7	7275.7	6949.3
57.5°	2483.1	2527.0	2450.7	2681.6	3763.8	6201.1	7752.8	8062.0	8092.6	7510.4	7126.8
60°	1897.2	1916.3	1830.4	1866.6	2340.0	4256.2	5996.9	6369.1	7300.5	6563.8	6037.0
62.5°	1471.6	1475.4	1473.5	1536.4	1612.8	2504.1	3750.5	4080.6	5033.0	4660.9	4099.7
65°	1084.1	1066.9	1097.5	1288.3	1376.1	1574.6	1975.4	2215.9	2735.1	2309.4	1651.0
67.5°	702.4	708.1	738.6	958.1	1179.5	1208.2	1215.8	1196.7	1198.6	660.4	414.2
70°	421.8	431.3	421.8	542.0	843.6	866.5	792.1	773.0	603.1	156.5	154.6
72.5°	250.0	236.7	211.9	232.9	351.2	419.9	377.9	376.0	236.7	91.6	91.6
75°	105.0	95.4	78.3	70.6	93.5	89.7	89.7	80.2	63.0	61.1	57.3
77.5°	21.0	21.0	15.3	17.2	22.9	26.7	32.4	32.4	38.2	38.2	36.3
80°	0.0	1.9	5.7	11.5	17.2	24.8	28.6	28.6	32.4	32.4	26.7
82.5°	0.0	1.9	5.7	11.5	15.3	22.9	28.6	28.6	32.4	34.4	28.6
85°	0.0	1.9	5.7	9.5	15.3	19.1	19.1	17.2	13.4	11.5	7.6
87.5°	0.0	0.0	1.9	3.8	1.9	3.8	3.8	3.8	3.8	3.8	3.8
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°	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8	3679.8
2.5°	3697.0	3695.1	3649.3	3574.9	3557.7	3494.7	3487.1	3448.9	3469.9	3399.3	3391.6
5°	3666.5	3643.6	3588.2	3540.5	3401.2	3301.9	3223.7	3128.2	3072.9	3082.4	3046.2
7.5°	3710.4	3651.2	3553.9	3387.8	3217.9	3044.3	2950.7	2756.1	2685.4	2580.5	2565.2
10°	3664.6	3620.7	3469.9	3195.0	2960.3	2710.2	2490.8	2275.1	2110.9	2040.3	2025.1
12.5°	3660.7	3584.4	3332.5	3027.1	2687.3	2328.5	2009.8	1740.7	1578.4	1486.8	1465.8
15°	3601.6	3510.0	3177.9	2767.5	2298.0	1851.4	1504.0	1244.4	1120.4	1066.9	1082.2
17.5°	3607.3	3469.9	3023.3	2492.7	1914.4	1358.9	1026.8	893.2	860.8	874.2	874.2
20°	3601.6	3380.2	2836.2	2175.8	1465.8	942.9	753.9	706.2	727.2	769.2	759.6
22.5°	3571.0	3338.2	2664.4	1841.8	1078.4	698.6	605.0	606.9	639.4	690.9	702.4
25°	3593.9	3244.7	2446.9	1504.0	786.4	557.3	524.9	538.2	572.6	610.8	618.4
27.5°	3576.8	3177.9	2219.7	1168.1	574.5	479.1	477.2	492.4	507.7	536.3	536.3
30°	3595.9	3116.8	1996.4	868.4	473.3	439.0	431.3	442.8	458.1	463.8	461.9
32.5°	3666.5	3071.0	1738.8	648.9	418.0	400.8	400.8	400.8	398.9	406.5	408.4
35°	3821.1	3078.6	1511.6	502.0	381.7	368.4	362.6	355.0	351.2	355.0	356.9
37.5°	3989.0	3074.8	1276.9	427.5	355.0	343.6	330.2	318.7	316.8	320.6	314.9
40°	4063.5	3111.1	1059.3	383.6	330.2	316.8	295.8	286.3	288.2	292.0	288.2
42.5°	4164.6	3122.5	918.0	349.3	307.3	286.3	272.9	261.5	259.6	265.3	263.4
45°	4162.7	3057.6	769.2	330.2	286.3	263.4	246.2	236.7	236.7	240.5	242.4
47.5°	4284.9	3048.1	660.4	313.0	271.0	248.1	227.1	219.5	217.6	217.6	213.8
50°	4569.3	3181.7	576.4	293.9	251.9	230.9	213.8	204.2	196.6	192.8	190.9
52.5°	5124.7	3597.8	511.5	271.0	230.9	213.8	198.5	190.9	181.3	171.8	169.9
54°	5662.9	4027.2	507.7	251.9	213.8	202.3	189.0	185.1	173.7	160.3	156.5
55°	5905.3	4277.2	521.1	236.7	202.3	194.7	183.2	179.4	168.0	152.7	150.8
57.5°	6105.7	4374.6	513.4	196.6	183.2	181.3	171.8	166.1	152.7	131.7	127.9
60°	4914.7	3307.6	368.4	173.7	168.0	164.1	156.5	152.7	135.5	112.6	110.7
62.5°	3105.3	1902.9	234.8	152.7	147.0	141.2	131.7	127.9	112.6	89.7	84.0
65°	1322.7	788.3	158.4	135.5	126.0	116.4	108.8	103.1	89.7	66.8	64.9
67.5°	343.6	280.6	131.7	118.3	105.0	91.6	85.9	76.3	61.1	45.8	43.9
70°	154.6	141.2	110.7	99.2	84.0	70.6	63.0	53.4	40.1	30.5	28.6
72.5°	91.6	89.7	84.0	74.4	63.0	53.4	45.8	36.3	26.7	17.2	17.2
75°	57.3	55.4	57.3	51.5	43.9	40.1	34.4	24.8	15.3	7.6	7.6
77.5°	34.4	34.4	34.4	32.4	30.5	30.5	24.8	15.3	7.6	1.9	1.9
80°	26.7	26.7	28.6	26.7	26.7	26.7	21.0	11.5	3.8	0.0	0.0
82.5°	26.7	28.6	32.4	30.5	26.7	22.9	19.1	11.5	3.8	0.0	0.0
85°	7.6	5.7	9.5	13.4	19.1	17.2	13.4	9.5	3.8	0.0	0.0
87.5°	3.8	3.8	3.8	3.8	1.9	1.9	1.9	1.9	1.9	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)