

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: P528465

Luminaire Tested: **GALN-SA3C-740-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528465  
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-740-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 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: 12250 lumens  
Efficiency: N/A  
Efficacy: 76.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

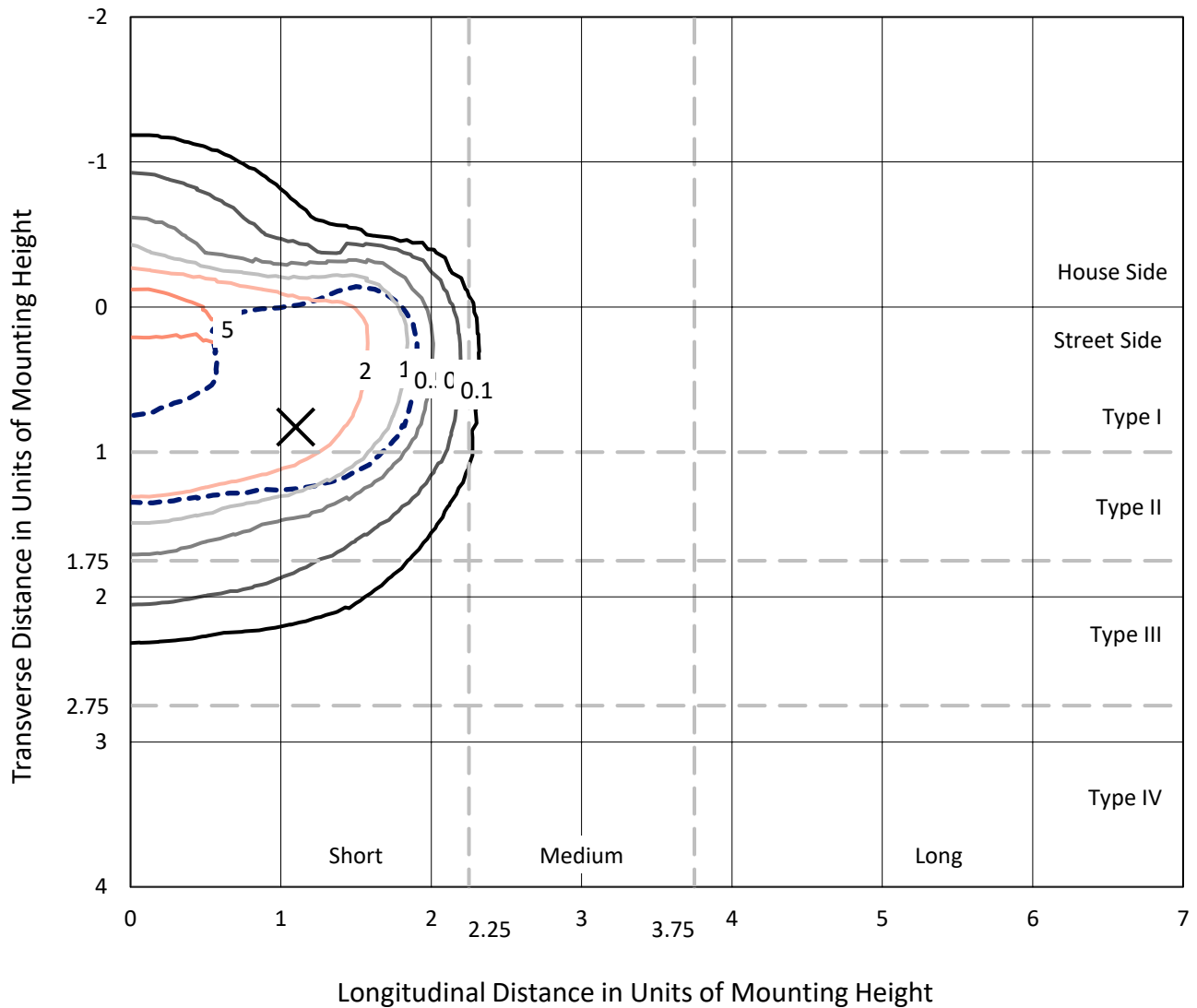
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

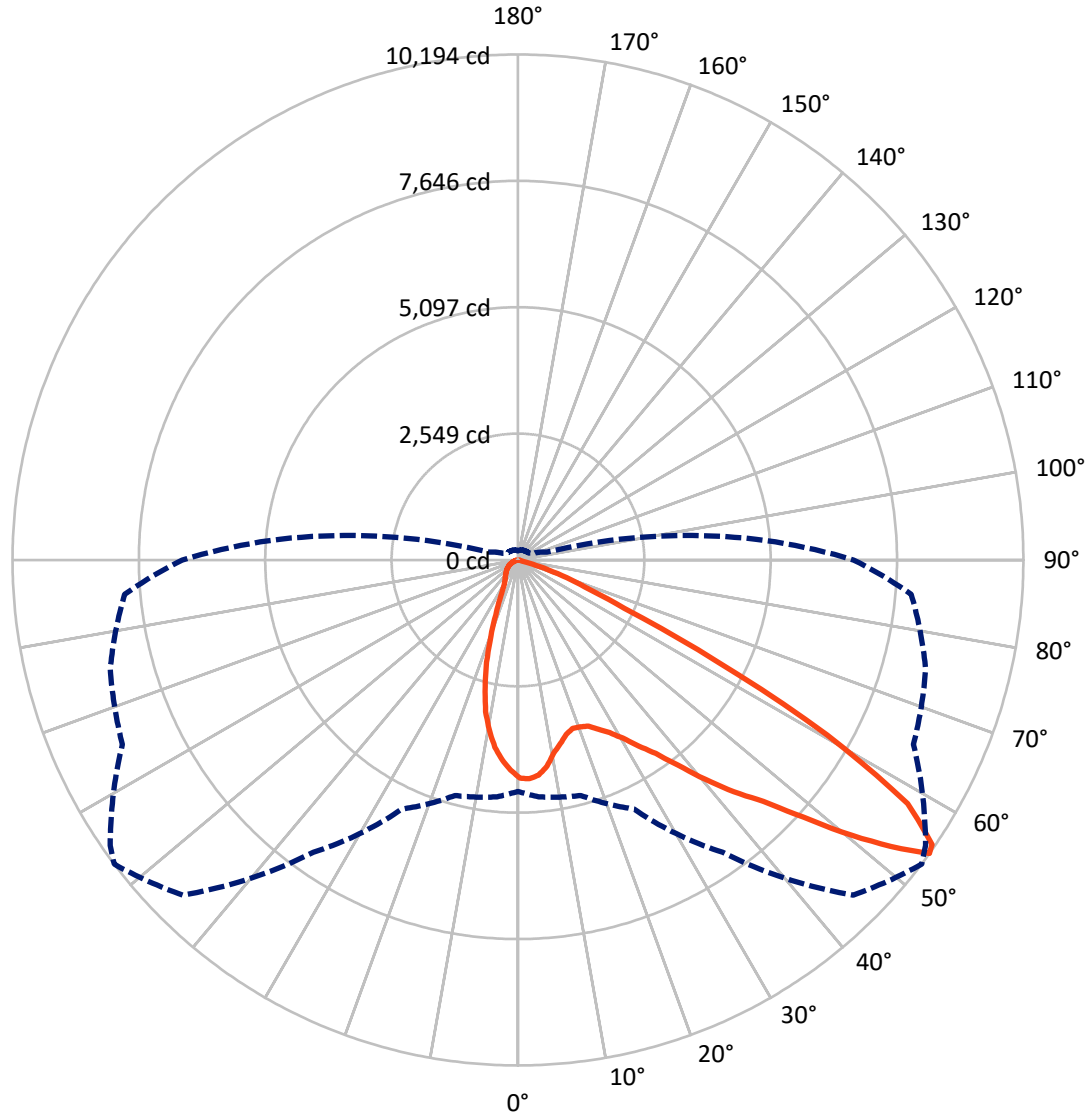
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	2026.8	0.0	2026.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	10223.2	0.0	10223.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	12250.0	0.0	12250.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.5	3.1
10°-20°	865.5	7.1
20°-30°	1230.1	10.0
30°-40°	1898.3	15.5
40°-50°	2976.4	24.3
50°-60°	3457.5	28.2
60°-70°	1306.5	10.7
70°-80°	124.2	1.0
80°-90°	14.0	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°	12250.0	100.0
0°-180°	12250.0	100.0

**Coefficient of Utilization**

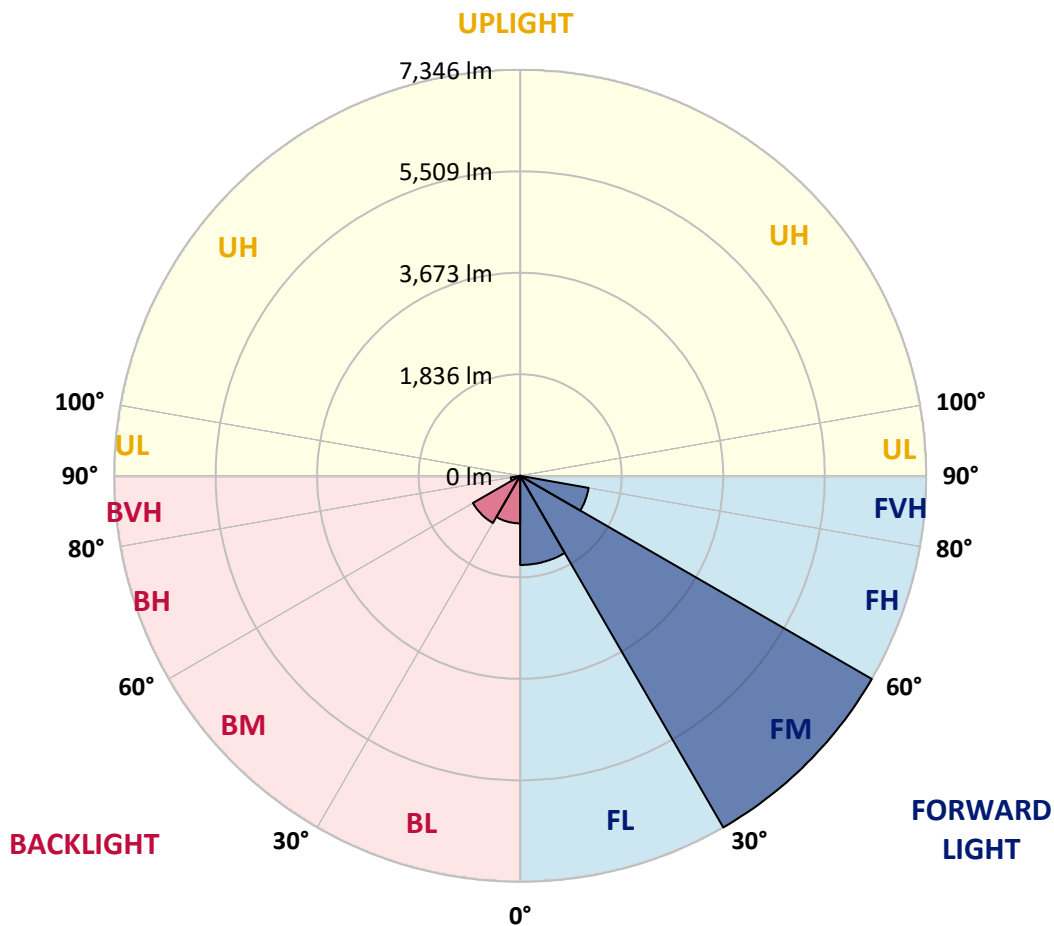


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.0	13.2			
FM (30°-60°)	7345.9	60.0			
FH (60°-80°)	1257.0	10.3			G1/1800
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	860.1	7.0	B2/1000		
BM (30°-60°)	986.3	8.1	B1/1000		
BH (60°-80°)	173.7	1.4	B1/500		G1/500
BVH (80°-90°)	6.8	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°	4400.0	4400.0	4400.0	4400.0	4400.0	4400.0	4400.0	4400.0	4400.0	4400.0	4400.0
2.5°	4377.2	4338.4	4377.2	4381.7	4409.1	4434.2	4418.3	4454.8	4434.2	4411.4	4404.6
5°	4023.4	4075.9	4078.2	4160.4	4142.1	4292.7	4358.9	4340.7	4452.5	4445.6	4429.7
7.5°	3706.2	3685.7	3713.1	3808.9	3929.9	4103.3	4199.2	4196.9	4356.6	4470.7	4459.3
10°	3411.8	3409.5	3466.6	3541.9	3644.6	3827.2	3959.5	4025.7	4274.5	4447.9	4473.0
12.5°	3213.3	3204.1	3265.8	3327.4	3489.4	3630.9	3799.8	3831.7	4117.0	4368.0	4409.1
15°	3083.2	3103.7	3108.3	3227.0	3329.7	3516.8	3649.2	3715.3	4044.0	4304.1	4461.6
17.5°	3060.4	3087.8	3090.0	3188.2	3297.7	3455.2	3571.6	3660.6	3982.4	4336.1	4463.9
20°	3106.0	3090.0	3103.7	3165.3	3272.6	3423.2	3592.1	3621.8	3961.8	4352.1	4489.0
22.5°	3236.1	3231.5	3197.3	3247.5	3322.8	3480.3	3640.0	3685.7	4021.2	4434.2	4509.5
25°	3379.9	3405.0	3373.0	3366.2	3418.7	3573.9	3786.1	3845.4	4219.7	4582.6	4573.4
27.5°	3649.2	3624.1	3624.1	3592.1	3578.4	3653.7	3943.6	4041.7	4441.1	4774.3	4646.5
30°	3907.0	3934.4	3913.9	3925.3	3834.0	3827.2	4167.2	4288.2	4833.6	5066.4	4801.7
32.5°	4315.6	4279.0	4313.3	4283.6	4162.6	4039.4	4470.7	4596.3	5308.3	5401.9	5034.4
35°	4655.6	4639.6	4785.7	4781.1	4584.8	4463.9	4792.5	4979.7	5639.2	5803.5	5308.3
37.5°	5139.4	5109.7	5276.3	5356.2	5180.5	5000.2	5253.5	5470.3	5947.3	6125.3	5589.0
40°	5636.9	5712.2	5935.9	6068.2	5881.1	5641.5	5817.2	5883.4	6152.7	6335.3	5780.7
42.5°	6266.8	6376.3	6604.6	6718.7	6702.7	6442.5	6390.0	6387.7	6301.0	6275.9	5922.2
45°	6871.6	6830.5	7181.9	7430.7	7631.5	7556.2	6942.3	6873.8	6536.1	6364.9	5958.7
47.5°	7136.3	7122.6	7362.2	7805.0	8489.6	8583.2	7745.6	7480.9	6933.2	6739.2	6157.3
50°	6794.0	6864.7	7102.1	7592.7	8642.5	9356.8	8731.5	8375.5	7396.5	7195.6	6627.4
52.5°	5675.7	5723.6	5949.6	6572.6	8122.2	9813.3	9676.3	9470.9	8247.7	7914.5	7446.7
54°	4667.0	4794.8	4918.0	5543.4	7195.6	9559.9	10194.4	10036.9	8802.3	8512.4	7962.4
55°	4064.5	4139.8	4228.8	4851.9	6554.3	9130.9	10135.0	10148.7	9174.3	8699.6	8309.3
57.5°	2969.1	3021.6	2930.3	3206.4	4500.4	7414.7	9270.1	9639.8	9676.3	8980.3	8521.6
60°	2268.5	2291.3	2188.6	2231.9	2797.9	5089.2	7170.5	7615.5	8729.2	7848.3	7218.5
62.5°	1759.5	1764.1	1761.8	1837.1	1928.4	2994.2	4484.4	4879.2	6018.0	5573.0	4902.1
65°	1296.3	1275.7	1312.2	1540.5	1645.4	1882.8	2362.0	2649.6	3270.3	2761.4	1974.1
67.5°	839.8	846.7	883.2	1145.6	1410.4	1444.6	1453.7	1430.9	1433.2	789.6	495.2
70°	504.4	515.8	504.4	648.1	1008.7	1036.1	947.1	924.3	721.2	187.1	184.9
72.5°	299.0	283.0	253.3	278.4	419.9	502.1	451.9	449.6	283.0	109.5	109.5
75°	125.5	114.1	93.6	84.4	111.8	107.3	107.3	95.9	75.3	73.0	68.5
77.5°	25.1	25.1	18.3	20.5	27.4	32.0	38.8	38.8	45.6	45.6	43.4
80°	0.0	2.3	6.8	13.7	20.5	29.7	34.2	34.2	38.8	38.8	32.0
82.5°	0.0	2.3	6.8	13.7	18.3	27.4	34.2	34.2	38.8	41.1	34.2
85°	0.0	2.3	6.8	11.4	18.3	22.8	22.8	20.5	16.0	13.7	9.1
87.5°	0.0	0.0	2.3	4.6	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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°	4400.0	4400.0	4400.0	4400.0	4400.0	4400.0	4400.0	4400.0	4400.0	4400.0	4400.0
2.5°	4420.5	4418.3	4363.5	4274.5	4253.9	4178.6	4169.5	4123.9	4149.0	4064.5	4055.4
5°	4384.0	4356.6	4290.5	4233.4	4066.8	3948.1	3854.6	3740.5	3674.3	3685.7	3642.3
7.5°	4436.5	4365.8	4249.4	4050.8	3847.7	3640.0	3528.2	3295.4	3211.0	3085.5	3067.2
10°	4381.7	4329.2	4149.0	3820.3	3539.6	3240.7	2978.2	2720.3	2524.1	2439.6	2421.4
12.5°	4377.2	4285.9	3984.6	3619.5	3213.3	2784.2	2403.1	2081.3	1887.3	1777.8	1752.7
15°	4306.4	4196.9	3799.8	3309.1	2747.7	2213.7	1798.3	1488.0	1339.6	1275.7	1294.0
17.5°	4313.3	4149.0	3614.9	2980.5	2289.0	1624.9	1227.8	1068.0	1029.3	1045.2	1045.2
20°	4306.4	4041.7	3391.3	2601.7	1752.7	1127.4	901.5	844.4	869.5	919.7	908.3
22.5°	4269.9	3991.5	3185.9	2202.3	1289.4	835.3	723.4	725.7	764.5	826.1	839.8
25°	4297.3	3879.7	2925.7	1798.3	940.2	666.4	627.6	643.6	684.6	730.3	739.4
27.5°	4276.8	3799.8	2654.1	1396.7	686.9	572.8	570.5	588.8	607.1	641.3	641.3
30°	4299.6	3726.8	2387.1	1038.4	566.0	524.9	515.8	529.5	547.7	554.6	552.3
32.5°	4384.0	3672.0	2079.0	775.9	499.8	479.3	479.3	479.3	477.0	486.1	488.4
35°	4568.9	3681.1	1807.5	600.2	456.4	440.5	433.6	424.5	419.9	424.5	426.8
37.5°	4769.7	3676.6	1526.8	511.2	424.5	410.8	394.8	381.1	378.8	383.4	376.6
40°	4858.7	3719.9	1266.6	458.7	394.8	378.8	353.7	342.3	344.6	349.2	344.6
42.5°	4979.7	3733.6	1097.7	417.6	367.4	342.3	326.3	312.7	310.4	317.2	314.9
45°	4977.4	3656.0	919.7	394.8	342.3	314.9	294.4	283.0	283.0	287.6	289.8
47.5°	5123.4	3644.6	789.6	374.3	324.1	296.7	271.6	262.4	260.2	260.2	255.6
50°	5463.5	3804.4	689.2	351.5	301.2	276.1	255.6	244.2	235.1	230.5	228.2
52.5°	6127.6	4301.9	611.6	324.1	276.1	255.6	237.3	228.2	216.8	205.4	203.1
54°	6771.2	4815.3	607.1	301.2	255.6	241.9	225.9	221.4	207.7	191.7	187.1
55°	7061.0	5114.3	623.0	283.0	241.9	232.8	219.1	214.5	200.8	182.6	180.3
57.5°	7300.6	5230.7	613.9	235.1	219.1	216.8	205.4	198.5	182.6	157.5	152.9
60°	5876.5	3955.0	440.5	207.7	200.8	196.3	187.1	182.6	162.0	134.6	132.4
62.5°	3713.1	2275.3	280.7	182.6	175.7	168.9	157.5	152.9	134.6	107.3	100.4
65°	1581.5	942.5	189.4	162.0	150.6	139.2	130.1	123.2	107.3	79.9	77.6
67.5°	410.8	335.5	157.5	141.5	125.5	109.5	102.7	91.3	73.0	54.8	52.5
70°	184.9	168.9	132.4	118.7	100.4	84.4	75.3	63.9	47.9	36.5	34.2
72.5°	109.5	107.3	100.4	89.0	75.3	63.9	54.8	43.4	32.0	20.5	20.5
75°	68.5	66.2	68.5	61.6	52.5	47.9	41.1	29.7	18.3	9.1	9.1
77.5°	41.1	41.1	41.1	38.8	36.5	36.5	29.7	18.3	9.1	2.3	2.3
80°	32.0	32.0	34.2	32.0	32.0	32.0	25.1	13.7	4.6	0.0	0.0
82.5°	32.0	34.2	38.8	36.5	32.0	27.4	22.8	13.7	4.6	0.0	0.0
85°	9.1	6.8	11.4	16.0	22.8	20.5	16.0	11.4	4.6	0.0	0.0
87.5°	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	2.3	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)