

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: P456939

Luminaire Tested: **GALN-SA8B-727-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456939  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8B-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28212 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

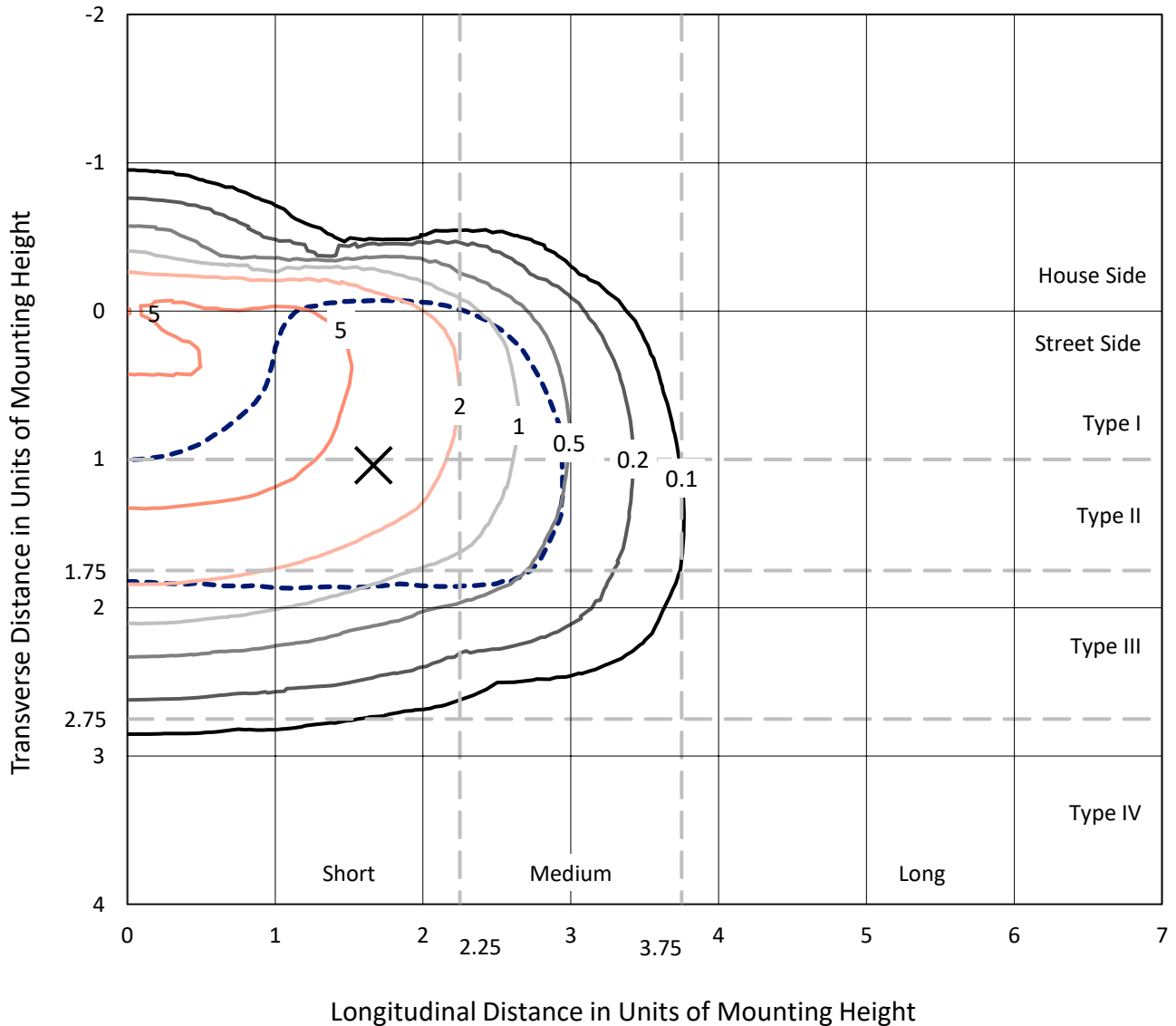
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

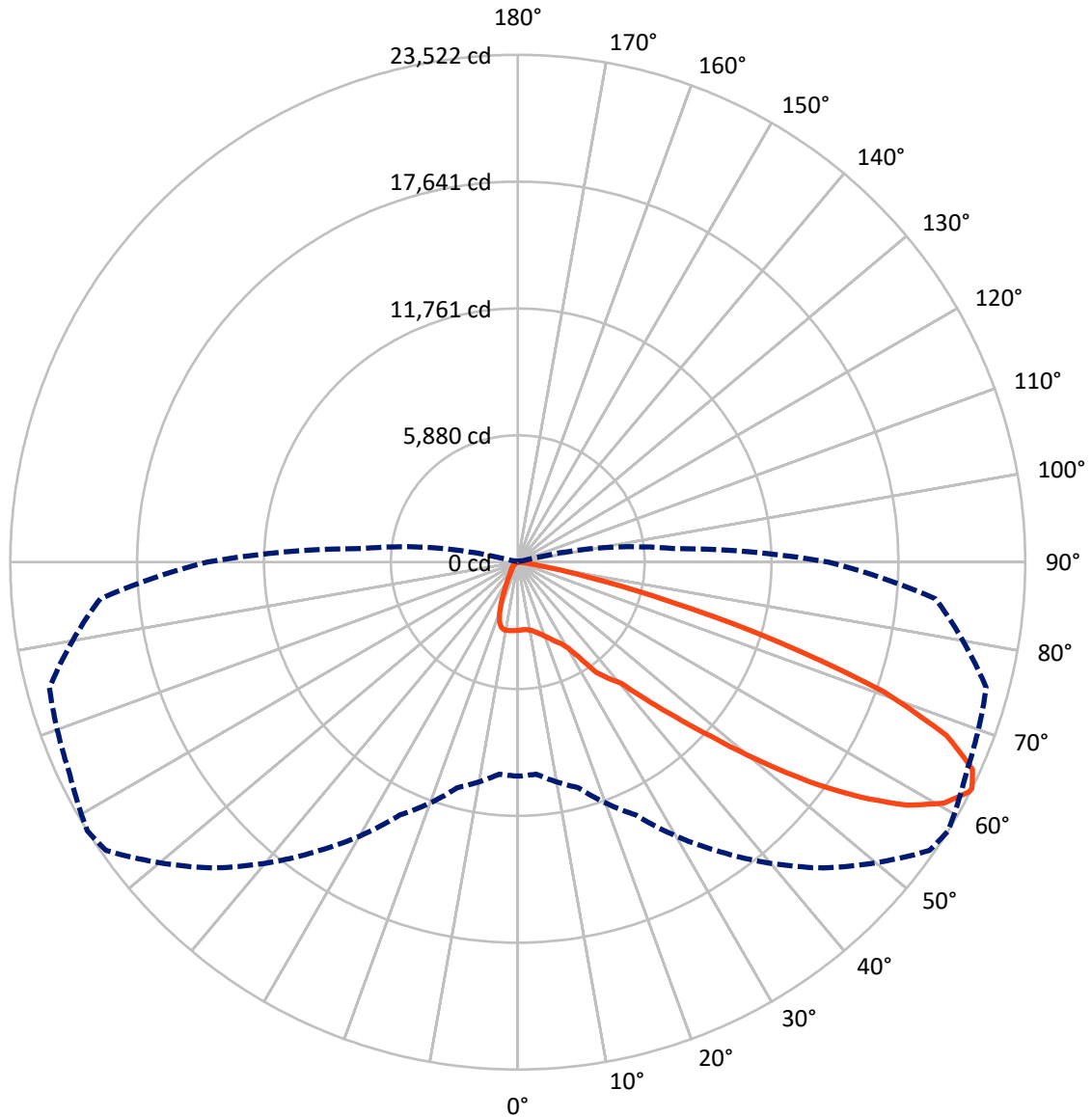
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2921.2	0.0	2921.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	25290.8	0.0	25290.8
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	28212.0	0.0	28212.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.7	1.0
10°-20°	805.3	2.9
20°-30°	1397.6	5.0
30°-40°	2568.3	9.1
40°-50°	4834.8	17.1
50°-60°	8269.6	29.3
60°-70°	7918.2	28.1
70°-80°	2019.2	7.2
80°-90°	103.2	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°	28212.0	100.0
0°-180°	28212.0	100.0

**Coefficient of Utilization**



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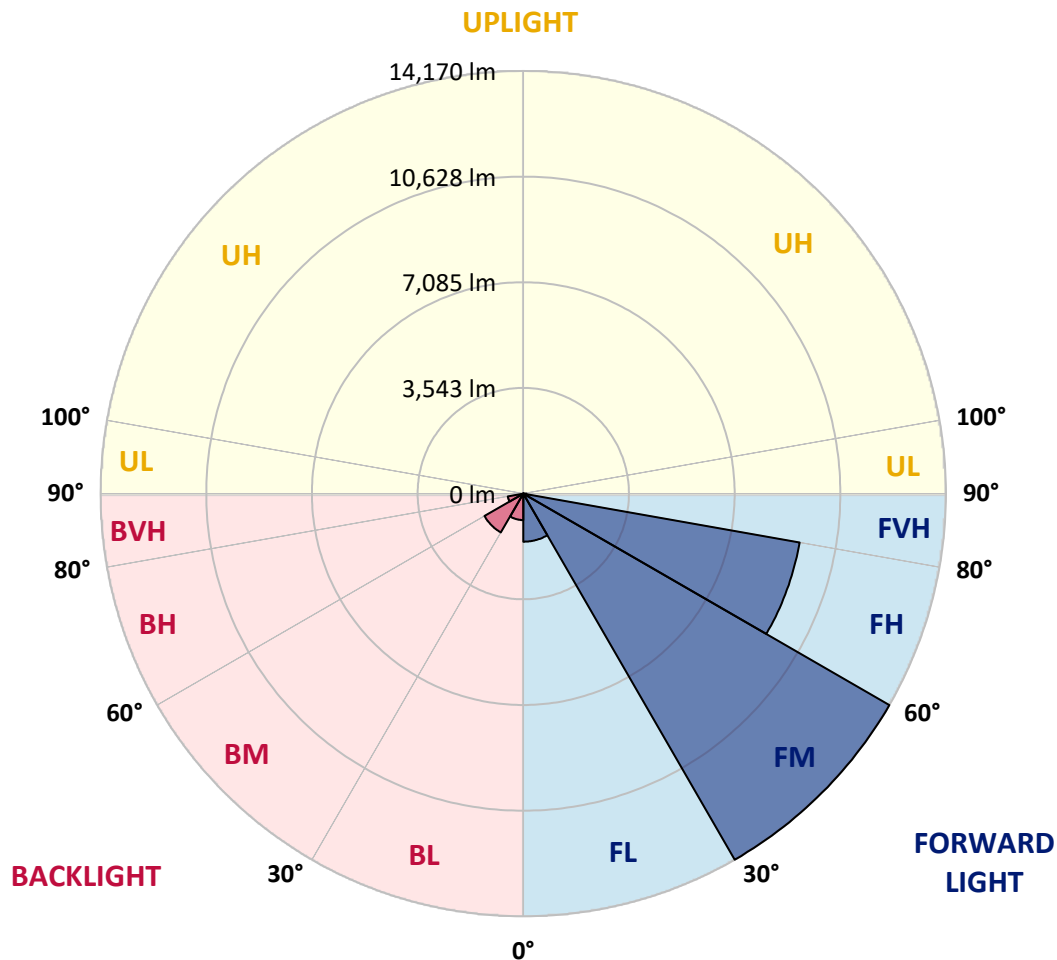
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.7	5.7			
FM (30°-60°)	14170.3	50.2			
FH (60°-80°)	9408.5	33.3			G4/12000
FVH (80°-90°)	99.2	0.4			G1/100
BL (0°-30°)	885.9	3.1	B2/1000		
BM (30°-60°)	1502.5	5.3	B2/2500		
BH (60°-80°)	528.8	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4
2.5°	3079.9	3090.5	3101.1	3105.3	3120.2	3135.1	3145.7	3143.6	3160.6	3169.1	3169.1
5°	2956.7	2956.7	2984.3	3009.8	3052.2	3094.7	3135.1	3143.6	3175.4	3205.2	3215.8
7.5°	2852.6	2859.0	2880.2	2926.9	2984.3	3058.6	3139.3	3158.4	3213.7	3279.5	3307.1
10°	2803.7	2808.0	2835.6	2884.4	2956.7	3058.6	3171.2	3207.3	3292.3	3396.3	3434.6
12.5°	2793.1	2799.5	2827.1	2882.3	2965.2	3088.3	3241.3	3279.5	3402.7	3536.5	3593.9
15°	2812.2	2816.5	2844.1	2903.6	2994.9	3141.5	3334.7	3387.8	3534.4	3689.5	3763.8
17.5°	2880.2	2875.9	2895.1	2943.9	3045.9	3207.3	3447.3	3511.0	3683.1	3895.5	3944.3
20°	3169.1	3141.5	3124.5	3082.0	3122.3	3300.8	3583.2	3676.7	3889.1	4105.8	4139.7
22.5°	3791.4	3729.8	3608.7	3443.1	3315.6	3428.2	3746.8	3855.1	4129.1	4341.5	4341.5
25°	4583.7	4505.1	4384.0	4022.9	3710.7	3638.5	3931.6	4067.5	4390.4	4604.9	4534.8
27.5°	5575.6	5514.0	5278.2	4857.7	4379.8	4005.9	4146.1	4271.4	4621.9	4881.0	4734.5
30°	6382.7	6353.0	6159.7	5783.8	5257.0	4711.1	4545.4	4628.3	4929.9	5229.4	5078.6
32.5°	7064.5	7064.5	6867.0	6516.5	6023.8	5539.5	5223.0	5282.5	5571.3	5917.6	5637.2
35°	7814.3	7788.8	7629.5	7296.1	6743.8	6316.9	6187.3	6268.0	6529.3	6786.3	6096.0
37.5°	8602.3	8593.9	8428.2	8105.3	7655.0	7117.6	6813.9	6835.1	6969.0	7126.1	6633.4
40°	9458.3	9471.1	9254.4	9054.8	8630.0	8079.8	7497.8	7364.0	7489.4	7933.3	7625.3
42.5°	10469.4	10439.6	10346.2	10074.3	9732.3	9403.1	8704.3	8655.4	8765.9	9241.7	8908.2
45°	11644.0	11686.4	11525.0	11374.2	11144.8	10870.8	10286.7	10201.7	10322.8	11062.0	10588.3
47.5°	12820.7	12780.3	12884.4	12856.8	12980.0	12776.1	12259.9	12085.8	12376.8	13077.7	12381.0
50°	13717.0	13761.6	13978.3	14294.8	14823.7	14938.3	14443.4	14384.0	14513.5	14963.8	13984.7
52.5°	14299.0	14447.7	14787.5	15601.0	16554.7	17296.0	16920.1	16888.2	16835.1	16956.2	15518.2
55°	14679.2	14830.0	15273.9	16471.9	18113.8	19318.1	19337.2	19201.3	18850.8	18763.7	16951.9
57.5°	14445.6	14475.3	15108.3	16709.8	18978.3	20760.3	21384.8	21248.9	20601.0	20271.8	18217.9
60°	12984.2	13045.8	13927.3	15809.2	18602.3	21231.9	22742.1	22680.5	21971.0	21599.3	19203.4
62.5°	10395.0	10573.5	11480.4	13579.0	16854.2	20437.5	23292.2	23466.4	22914.1	22402.2	19513.5
63°	9919.3	9861.9	10819.8	12929.0	16391.2	20044.5	23300.7	23521.6	22956.6	22478.7	19428.6
65°	7342.8	7514.8	8137.2	10195.4	13640.6	18215.7	22776.0	23166.9	22799.4	22141.0	18487.6
67.5°	4122.8	4114.3	4802.4	6671.6	9547.5	14288.4	20594.7	21420.9	21344.4	19868.2	15324.9
70°	2017.8	2049.7	2332.2	3457.9	5537.4	9857.7	17113.4	18005.5	18033.1	15605.3	10596.8
72.5°	913.3	928.2	1130.0	1684.4	2846.2	5248.5	11792.7	12644.4	12487.2	9944.7	5851.7
75°	482.2	514.0	622.3	847.5	1372.1	2164.4	6414.6	7238.7	6909.5	4543.3	2153.8
77.5°	356.8	367.5	422.7	539.5	734.9	843.2	2767.6	3292.3	3084.1	1644.0	713.7
80°	261.3	269.8	314.4	382.3	463.0	429.1	1042.9	1195.8	1072.6	558.6	218.8
82.5°	159.3	161.4	229.4	284.6	291.0	240.0	344.1	369.6	386.6	314.4	118.9
85°	57.3	72.2	155.1	206.0	172.0	121.1	144.4	159.3	174.2	199.7	70.1
87.5°	6.4	8.5	74.3	99.8	48.9	44.6	53.1	59.5	63.7	74.3	34.0
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°	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4	3158.4
2.5°	3177.6	3186.1	3179.7	3169.1	3166.9	3160.6	3147.8	3147.8	3147.8	3152.1	3147.8
5°	3224.3	3230.7	3215.8	3194.6	3171.2	3141.5	3109.6	3090.5	3088.3	3084.1	3073.5
7.5°	3313.5	3322.0	3288.0	3237.0	3173.3	3101.1	3033.1	2969.4	2939.7	2916.3	2916.3
10°	3443.1	3451.6	3383.6	3292.3	3164.8	3018.3	2856.8	2710.3	2595.6	2542.5	2529.7
12.5°	3598.1	3602.4	3489.8	3330.5	3120.2	2837.7	2493.6	2172.9	1949.9	1847.9	1837.3
15°	3768.0	3738.3	3589.6	3345.4	2992.8	2466.0	1871.3	1478.3	1246.8	1178.8	1204.3
17.5°	3940.1	3884.9	3666.1	3322.0	2706.0	1871.3	1257.4	1008.9	936.7	917.6	917.6
20°	4101.5	4025.0	3721.3	3220.0	2209.0	1289.3	932.5	873.0	860.2	847.5	849.6
22.5°	4262.9	4146.1	3770.2	2992.8	1646.1	921.8	834.7	815.6	798.6	781.6	779.5
25°	4420.1	4258.7	3789.3	2572.2	1121.5	792.3	762.5	737.0	703.1	683.9	679.7
27.5°	4583.7	4394.6	3776.5	2041.2	817.8	709.4	679.7	643.6	603.2	569.2	569.2
30°	4898.0	4653.8	3731.9	1467.7	688.2	624.5	586.2	528.9	484.3	450.3	448.2
32.5°	5327.1	4991.5	3579.0	1032.3	611.7	550.1	492.8	429.1	382.3	356.8	356.8
35°	5709.4	5331.3	3292.3	760.4	550.1	477.9	407.8	346.2	310.1	293.1	286.7
37.5°	6291.4	5828.4	2897.2	618.1	490.7	414.2	342.0	284.6	254.9	242.1	242.1
40°	7164.4	6435.8	2412.9	541.6	433.3	352.6	284.6	240.0	216.7	201.8	201.8
42.5°	8247.6	7179.2	1922.3	486.4	380.2	303.7	237.9	203.9	182.7	172.0	169.9
45°	9611.3	7963.0	1480.5	435.4	337.7	259.1	201.8	172.0	150.8	144.4	146.6
47.5°	11034.4	8653.3	1147.0	390.8	293.1	218.8	172.0	148.7	133.8	125.3	125.3
50°	12249.3	9129.1	870.9	339.8	259.1	184.8	150.8	133.8	121.1	116.8	114.7
52.5°	13264.6	9267.2	666.9	295.2	227.3	159.3	133.8	121.1	110.4	104.1	104.1
55°	14129.1	9146.1	522.5	248.5	191.2	138.1	118.9	108.3	95.6	89.2	87.1
57.5°	14634.6	8757.4	399.3	206.0	155.1	114.7	104.1	91.3	76.5	65.8	65.8
60°	14889.5	8192.4	305.9	169.9	118.9	91.3	85.0	68.0	53.1	44.6	42.5
62.5°	14583.6	7442.6	231.5	133.8	89.2	68.0	57.3	48.9	34.0	25.5	25.5
63°	14394.6	7226.0	223.0	127.4	82.8	63.7	53.1	44.6	29.7	23.4	21.2
65°	13122.3	6280.8	182.7	102.0	65.8	44.6	36.1	31.9	21.2	10.6	8.5
67.5°	10420.5	4804.6	144.4	76.5	46.7	31.9	21.2	19.1	6.4	0.0	0.0
70°	7045.4	3103.2	112.6	55.2	31.9	19.1	10.6	8.5	2.1	0.0	0.0
72.5°	3674.6	1590.9	87.1	40.4	19.1	12.7	6.4	2.1	0.0	0.0	0.0
75°	1299.9	541.6	63.7	25.5	12.7	6.4	2.1	0.0	0.0	0.0	0.0
77.5°	392.9	201.8	40.4	19.1	8.5	4.2	0.0	0.0	0.0	0.0	0.0
80°	138.1	74.3	23.4	12.7	6.4	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	68.0	36.1	14.9	10.6	6.4	2.1	0.0	0.0	0.0	0.0	0.0
85°	38.2	23.4	12.7	10.6	6.4	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	27.6	17.0	12.7	10.6	8.5	4.2	2.1	0.0	0.0	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)