

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: P458018

Luminaire Tested: **GALN-SA9B-827-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458018  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9B-827-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27432 lumens  
Efficiency: N/A  
Efficacy: 75.4 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

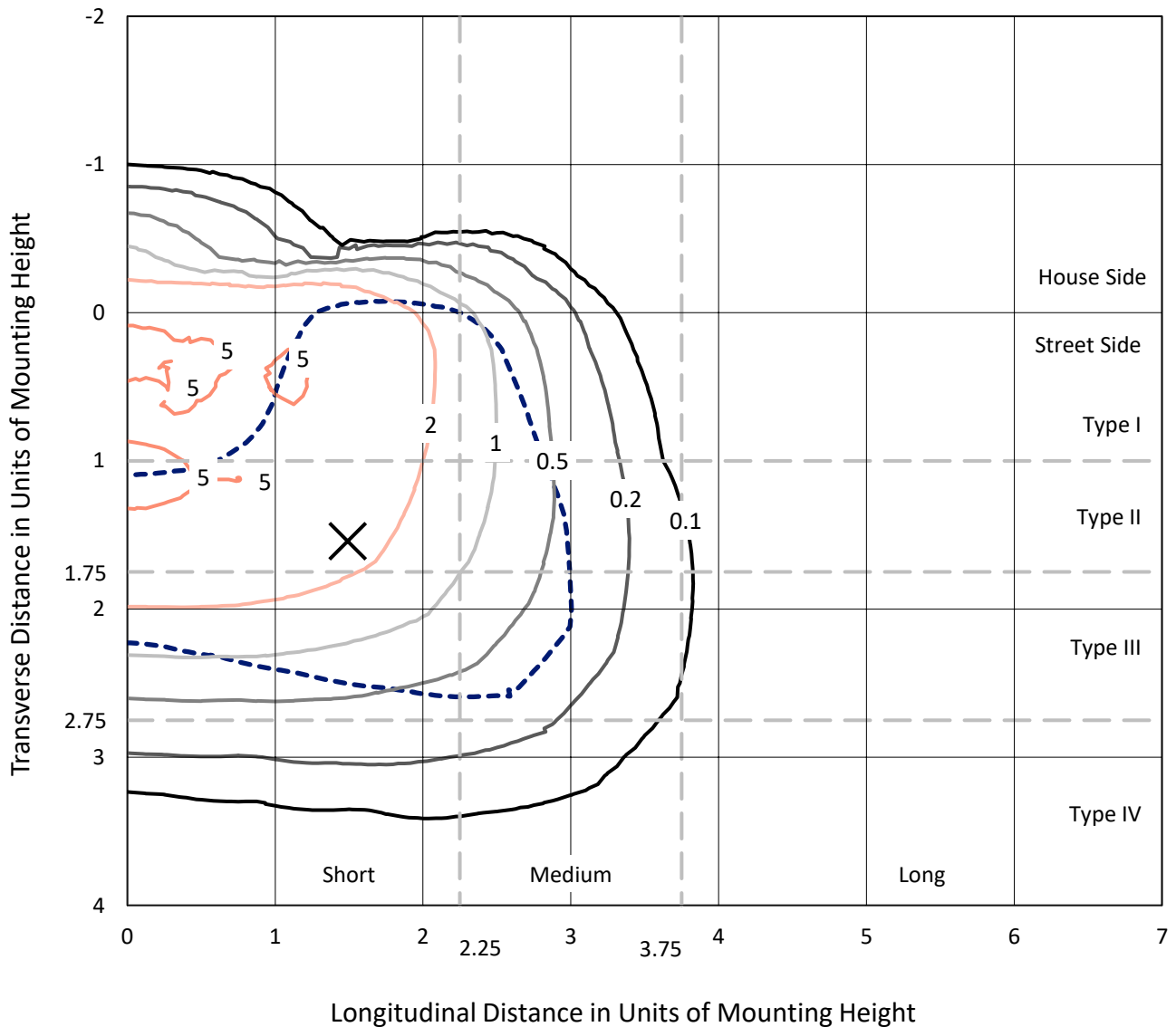
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

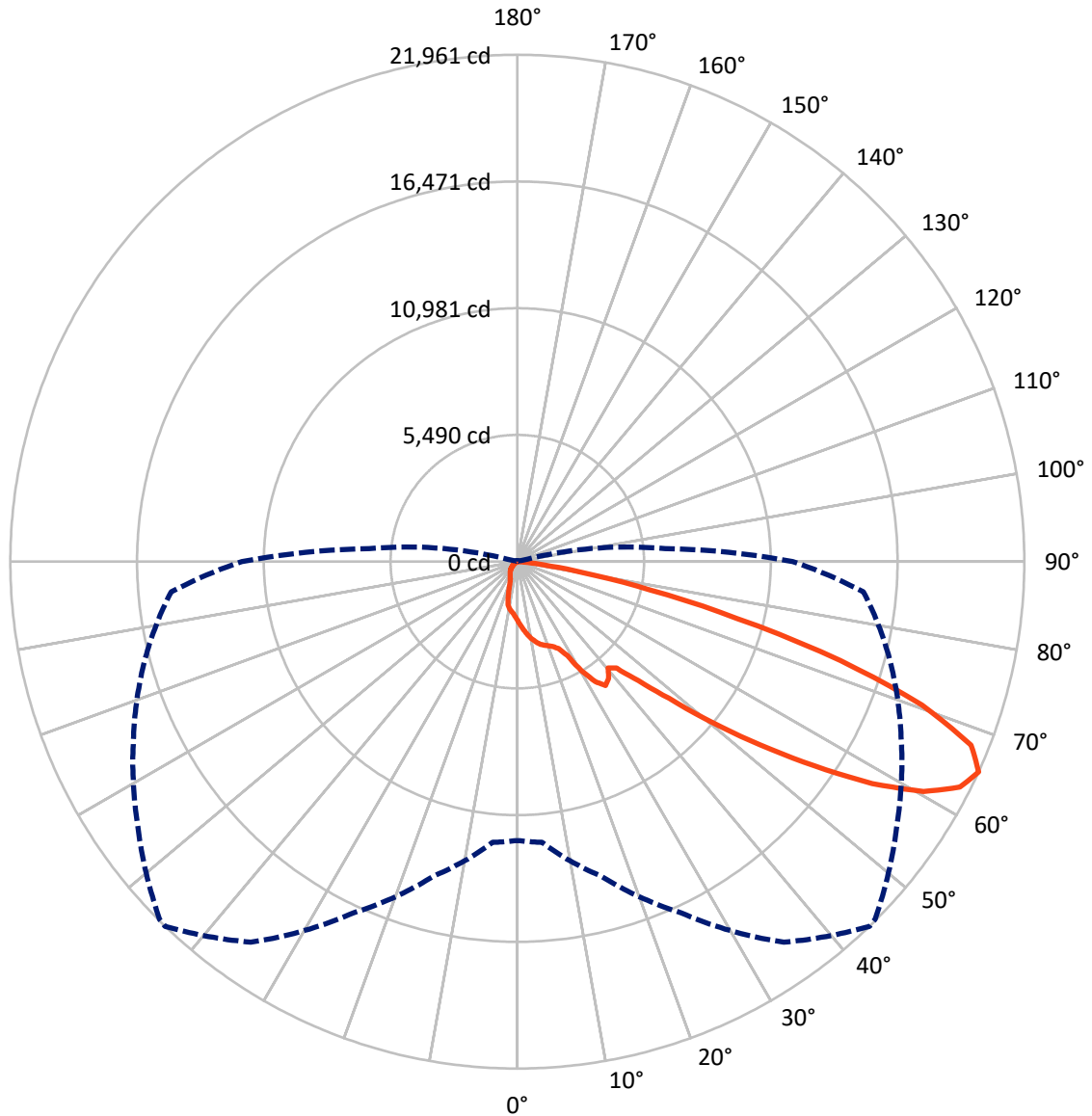
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2527.4	0.0	2527.4
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	24904.6	0.0	24904.6
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	27432.0	0.0	27432.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.9	0.9
10°-20°	764.3	2.8
20°-30°	1295.9	4.7
30°-40°	2154.7	7.9
40°-50°	3762.1	13.7
50°-60°	7349.7	26.8
60°-70°	8527.4	31.1
70°-80°	3105.3	11.3
80°-90°	218.8	0.8
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°	27432.0	100.0
0°-180°	27432.0	100.0

**Coefficient of Utilization**

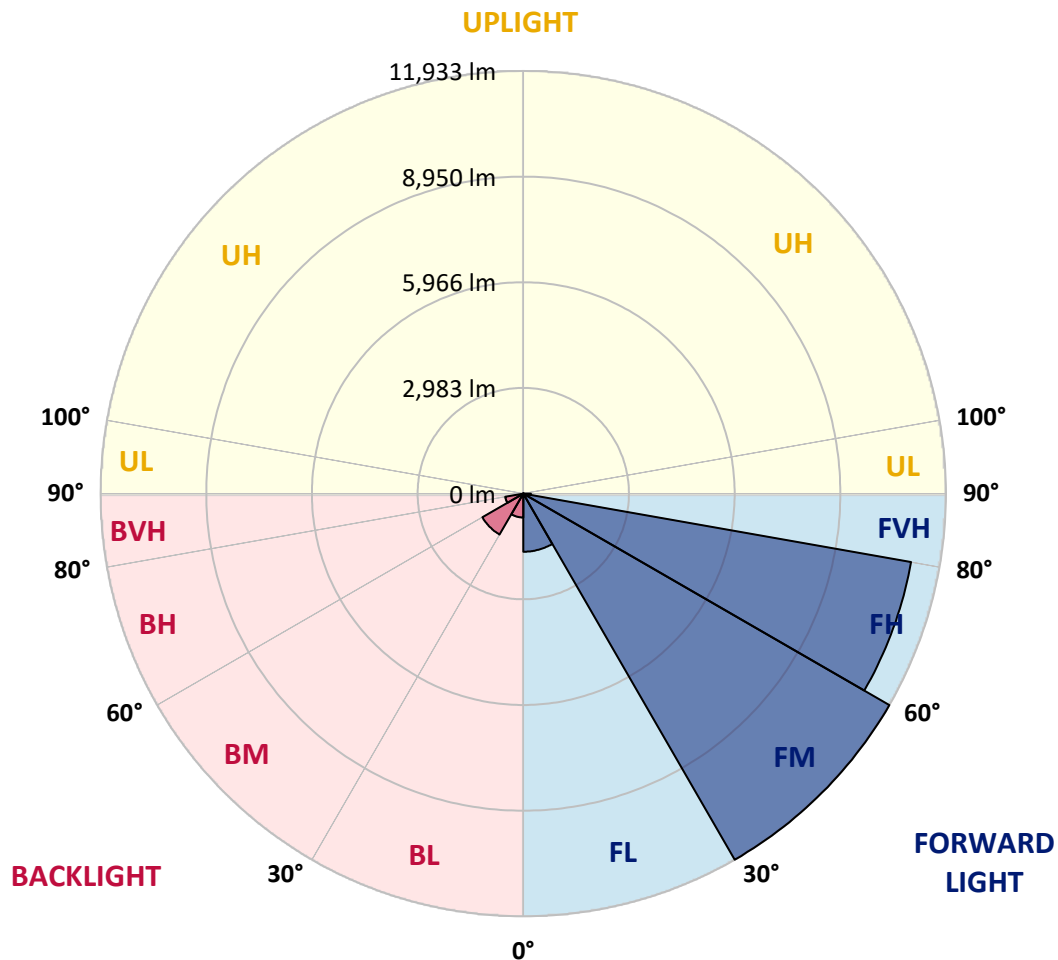


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1640.7	6.0			
FM (30°-60°)	11933.0	43.5			
FH (60°-80°)	11115.1	40.5			G4/12000
FVH (80°-90°)	215.8	0.8			G2/225
BL (0°-30°)	673.4	2.5	B2/1000		
BM (30°-60°)	1333.5	4.9	B2/2500		
BH (60°-80°)	517.6	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.0	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°	44°	45°	55°	65°	75°	85°
0°	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1
2.5°	2873.8	2861.2	2854.9	2821.4	2796.3	2764.8	2764.8	2725.0	2678.9	2628.6	2582.4
5°	3194.5	3173.6	3146.3	3117.0	3058.3	2974.4	2974.4	2890.6	2794.2	2708.2	2613.9
7.5°	3502.7	3483.8	3437.7	3381.1	3284.7	3196.6	3190.3	3068.8	2953.5	2823.5	2689.4
10°	3773.1	3758.4	3718.6	3609.6	3508.9	3393.7	3391.6	3255.3	3121.2	2961.8	2796.3
12.5°	3961.7	3963.8	3911.4	3806.6	3676.6	3567.6	3559.2	3425.1	3284.7	3112.8	2909.4
15°	4095.9	4095.9	4041.4	3924.0	3806.6	3710.2	3701.8	3584.4	3439.8	3253.2	3033.1
17.5°	4133.6	4146.2	4087.5	3982.7	3888.3	3804.5	3802.4	3703.9	3588.6	3408.3	3158.9
20°	4118.9	4131.5	4085.4	4003.6	3938.7	3890.4	3884.2	3844.3	3737.4	3567.6	3293.0
22.5°	4087.5	4100.1	4066.5	4018.3	3986.9	4001.5	3991.1	4024.6	3968.0	3762.6	3452.3
25°	4093.8	4106.3	4081.2	4053.9	4081.2	4171.3	4198.6	4343.2	4292.9	4009.9	3624.2
27.5°	4290.8	4316.0	4280.3	4292.9	4389.3	4598.9	4651.3	4900.8	4678.6	4324.3	3892.5
30°	4728.9	4712.1	4645.1	4705.8	5041.2	5485.6	5470.9	5431.1	5083.1	4687.0	4211.1
32.5°	5127.2	5112.5	5108.3	5370.3	5978.2	6194.1	6183.6	5797.9	5445.8	5102.0	4525.6
35°	5288.6	5232.0	5219.4	5854.5	6871.2	6586.1	6521.1	5948.9	5886.0	5554.8	4846.3
37.5°	5774.9	5735.0	5540.1	5934.2	6514.8	6420.5	6370.2	6208.8	6355.5	5955.1	5208.9
40°	6776.8	6665.7	6489.7	6104.0	6009.6	6049.5	6099.8	6542.1	6911.0	6502.2	5693.1
42.5°	8021.9	7996.8	7669.8	6950.8	6244.4	6298.9	6363.9	7238.0	7709.6	7326.0	6483.4
45°	9516.5	9552.1	9080.5	8231.6	7305.1	7351.2	7445.5	8265.1	8791.2	8606.8	7726.4
47.5°	10874.8	10847.5	10688.2	9805.8	8950.5	8847.8	9000.8	9583.6	10287.9	10317.2	9269.1
50°	12241.5	12386.1	12149.2	11803.4	11168.2	10952.3	10895.7	11180.8	12254.0	12113.6	11122.1
52.5°	14205.6	14281.0	13836.6	13748.6	13893.2	13193.1	13136.5	13205.7	14165.7	13683.6	12509.8
55°	15440.2	15396.2	15230.6	15918.1	16490.4	15616.3	15545.0	15266.2	15752.5	14792.5	13845.0
57.5°	15830.1	15892.9	16278.6	17521.7	18875.8	18133.7	18003.8	17211.4	16897.0	15825.9	15073.4
60°	15656.1	15771.4	16603.5	18452.3	20330.5	20219.4	20108.3	18777.2	17718.7	16689.5	15934.9
62.5°	14417.3	14578.7	15909.7	18286.7	20823.1	21516.9	21378.6	19754.0	18265.8	17108.7	16085.8
65°	12082.2	12201.6	14113.3	16783.8	20123.0	21961.3	21911.0	20060.1	18351.7	16725.1	15052.4
67.5°	8613.0	9019.7	10790.9	14144.8	18052.0	21202.5	21288.4	19693.3	17544.7	15067.1	12465.8
70°	5414.3	5691.0	6961.3	10126.5	14471.8	18601.2	18884.1	18014.2	15226.4	11744.7	8344.7
72.5°	2582.4	2787.9	3693.4	6410.0	10214.5	14635.3	14859.6	14788.3	11774.0	7399.4	4305.5
75°	1150.8	1228.3	1762.9	3272.1	6594.5	9837.2	10417.8	10514.2	7357.5	3620.0	1674.8
77.5°	586.9	589.0	825.9	1584.7	3293.0	5869.2	5984.5	6322.0	3989.0	1595.2	582.7
80°	312.3	333.3	438.1	748.3	1708.4	2890.6	2875.9	3161.0	1769.1	781.9	194.9
82.5°	140.4	155.1	247.3	392.0	834.3	1096.3	1182.2	1293.3	758.8	498.9	85.9
85°	41.9	50.3	121.6	197.0	301.8	316.5	354.2	457.0	429.7	354.2	44.0
87.5°	6.3	6.3	50.3	54.5	44.0	56.6	58.7	65.0	138.3	130.0	23.1
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°	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1	2553.1
2.5°	2557.3	2542.6	2490.2	2446.2	2408.5	2385.4	2358.2	2341.4	2333.0	2326.7	2328.8
5°	2567.8	2532.1	2442.0	2370.7	2316.2	2257.5	2217.7	2194.7	2184.2	2167.4	2167.4
7.5°	2626.5	2569.9	2444.1	2335.1	2240.8	2161.1	2085.7	2058.4	2039.5	2035.4	2031.2
10°	2710.3	2639.0	2467.2	2316.2	2182.1	2073.1	1966.2	1871.9	1798.5	1754.5	1748.2
12.5°	2815.1	2712.4	2502.8	2303.7	2131.8	1938.9	1656.0	1465.2	1337.3	1297.5	1303.8
15°	2911.5	2800.4	2538.4	2293.2	2039.5	1607.7	1287.0	1069.0	1004.1	997.8	999.9
17.5°	3026.8	2894.8	2580.4	2278.5	1785.9	1228.3	955.8	897.1	909.7	930.7	928.6
20°	3146.3	2995.4	2630.7	2190.5	1425.4	924.4	844.7	851.0	869.9	888.8	893.0
22.5°	3274.2	3110.7	2689.4	1978.8	1087.9	804.9	800.7	809.1	828.0	848.9	853.1
25°	3450.2	3255.3	2733.4	1702.1	823.8	744.1	752.5	767.2	784.0	807.0	811.2
27.5°	3676.6	3450.2	2756.4	1341.5	712.7	689.6	691.7	712.7	733.6	754.6	754.6
30°	3970.1	3682.9	2710.3	1014.5	658.2	637.2	628.8	641.4	668.7	689.6	691.7
32.5°	4232.1	3903.0	2588.7	775.6	618.4	589.0	568.1	570.2	580.6	593.2	595.3
35°	4494.1	4116.8	2381.2	651.9	576.4	542.9	511.5	494.7	486.3	480.0	486.3
37.5°	4829.5	4383.0	2104.5	593.2	540.8	498.9	454.9	419.2	389.9	371.0	375.2
40°	5261.3	4752.0	1777.5	555.5	507.3	457.0	398.3	352.2	301.8	285.1	276.7
42.5°	5974.0	5311.6	1433.8	524.0	473.7	412.9	339.6	276.7	230.6	213.8	218.0
45°	7099.6	6018.0	1104.7	490.5	440.2	364.7	285.1	218.0	180.3	171.9	176.1
47.5°	8592.1	6931.9	851.0	452.8	398.3	312.3	224.3	171.9	148.8	146.7	144.6
50°	9996.5	7783.0	710.6	410.8	348.0	259.9	184.5	144.6	130.0	127.9	127.9
52.5°	11266.8	8393.0	578.5	362.6	293.5	213.8	155.1	127.9	115.3	109.0	109.0
55°	12396.6	8791.2	469.5	303.9	230.6	169.8	134.2	115.3	100.6	92.2	90.1
57.5°	13249.7	8839.4	352.2	243.2	171.9	132.1	115.3	100.6	83.8	73.4	69.2
60°	13614.4	8422.3	259.9	184.5	127.9	104.8	92.2	81.7	62.9	52.4	50.3
62.5°	13247.6	7611.1	192.8	140.4	98.5	77.6	65.0	60.8	44.0	31.4	29.3
65°	11933.3	6439.3	153.0	106.9	73.4	56.6	41.9	39.8	27.2	14.7	12.6
67.5°	9560.5	5043.3	121.6	79.7	52.4	37.7	27.2	25.2	14.7	4.2	4.2
70°	6217.2	3223.9	98.5	58.7	33.5	25.2	16.8	12.6	8.4	2.1	0.0
72.5°	3075.0	1507.1	79.7	46.1	23.1	12.6	6.3	4.2	6.3	0.0	0.0
75°	1192.7	536.6	58.7	31.4	12.6	6.3	4.2	0.0	2.1	0.0	0.0
77.5°	396.2	178.2	35.6	16.8	8.4	4.2	0.0	0.0	0.0	0.0	0.0
80°	146.7	69.2	18.9	10.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	58.7	27.2	12.6	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.3	16.8	8.4	6.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.0	12.6	8.4	6.3	4.2	2.1	0.0	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)