

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: P453457

Luminaire Tested: **GALN-SA4C-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453457
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18622 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

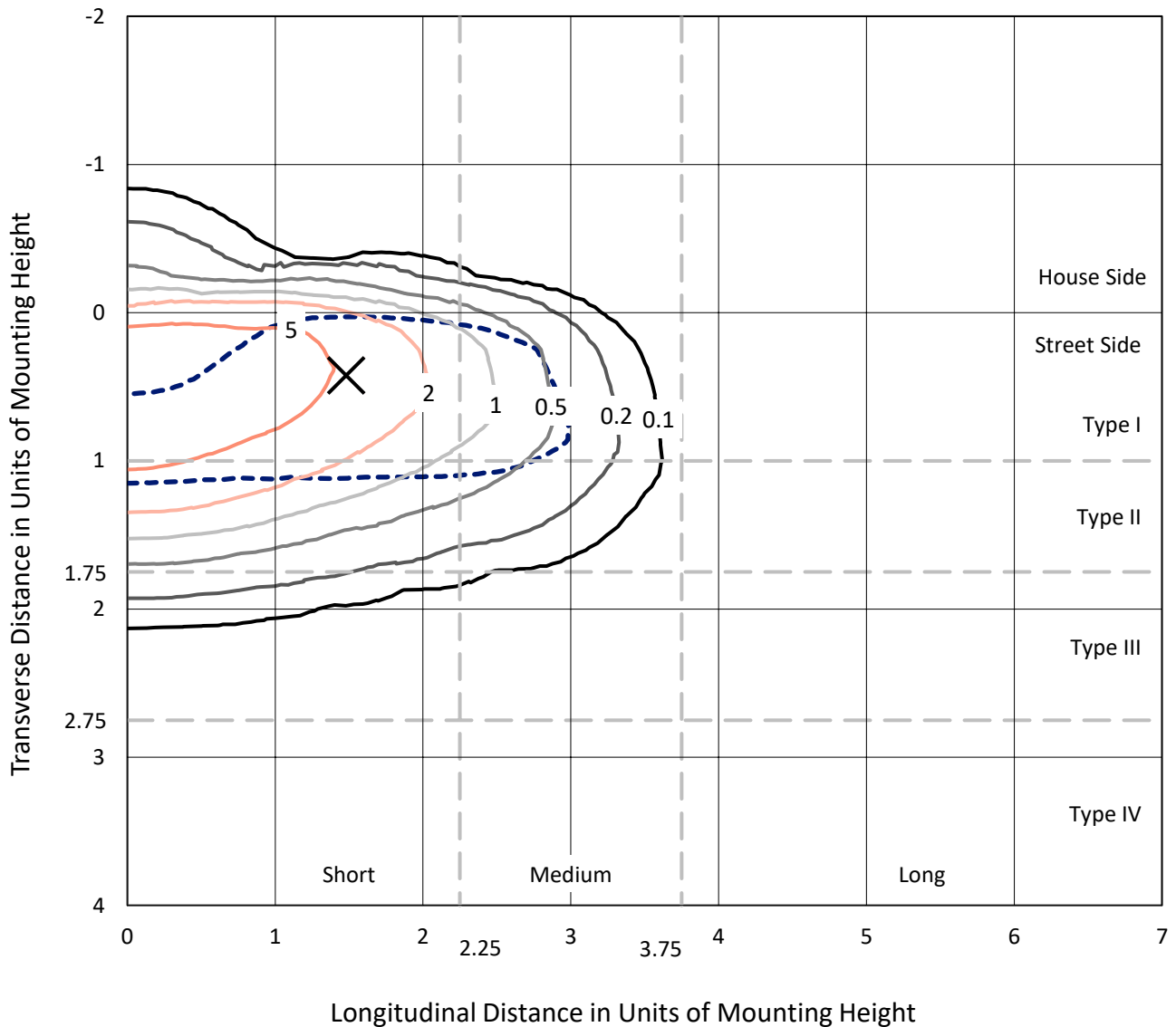
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

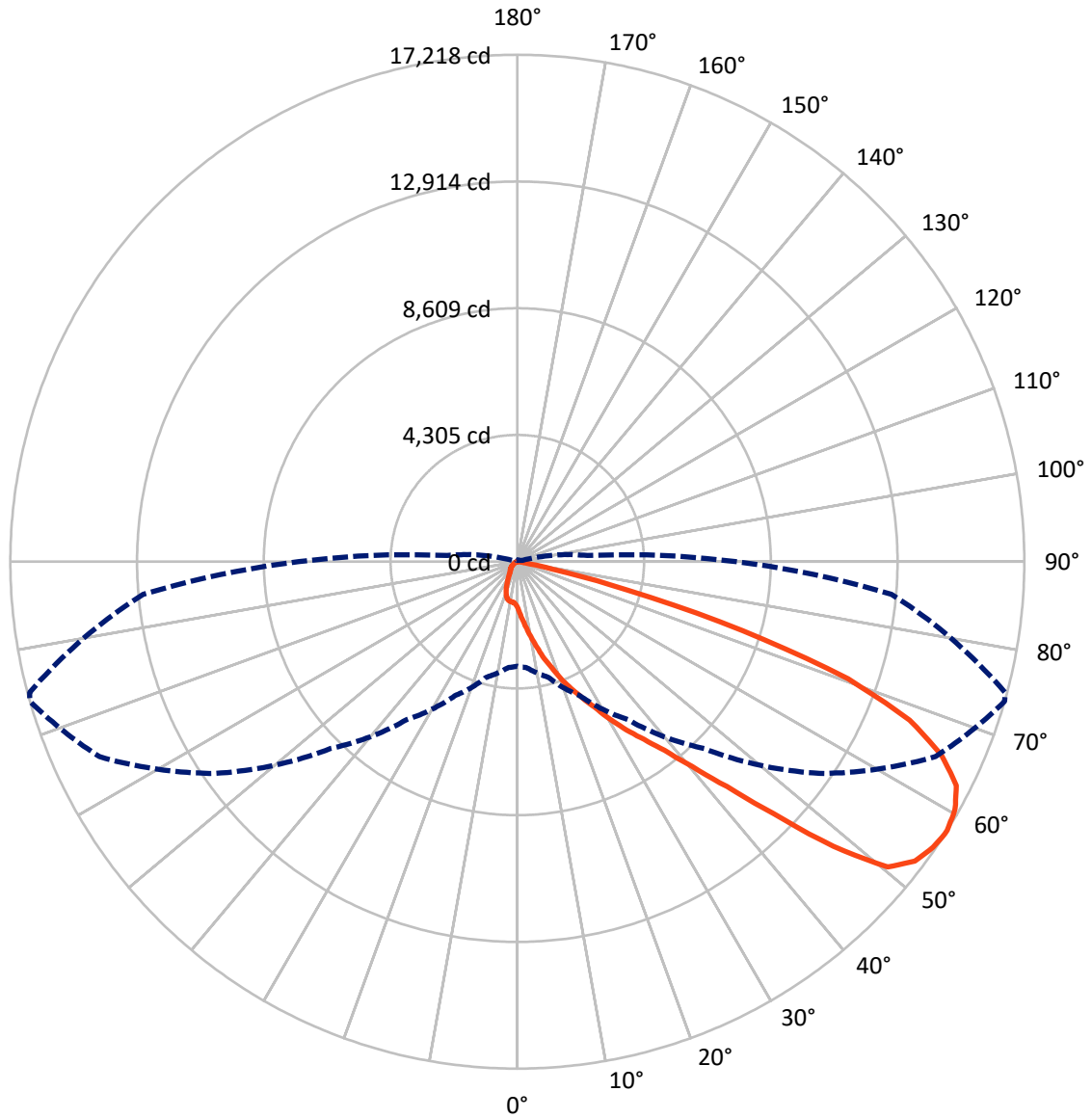
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1074.1	0.0	1074.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	17547.9	0.0	17547.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	18622.0	0.0	18622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	1.0
10°-20°	742.0	4.0
20°-30°	1587.7	8.5
30°-40°	2918.1	15.7
40°-50°	4473.5	24.0
50°-60°	4732.3	25.4
60°-70°	3090.3	16.6
70°-80°	844.4	4.5
80°-90°	45.5	0.2
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°	18622.0	100.0
0°-180°	18622.0	100.0

Coefficient of Utilization



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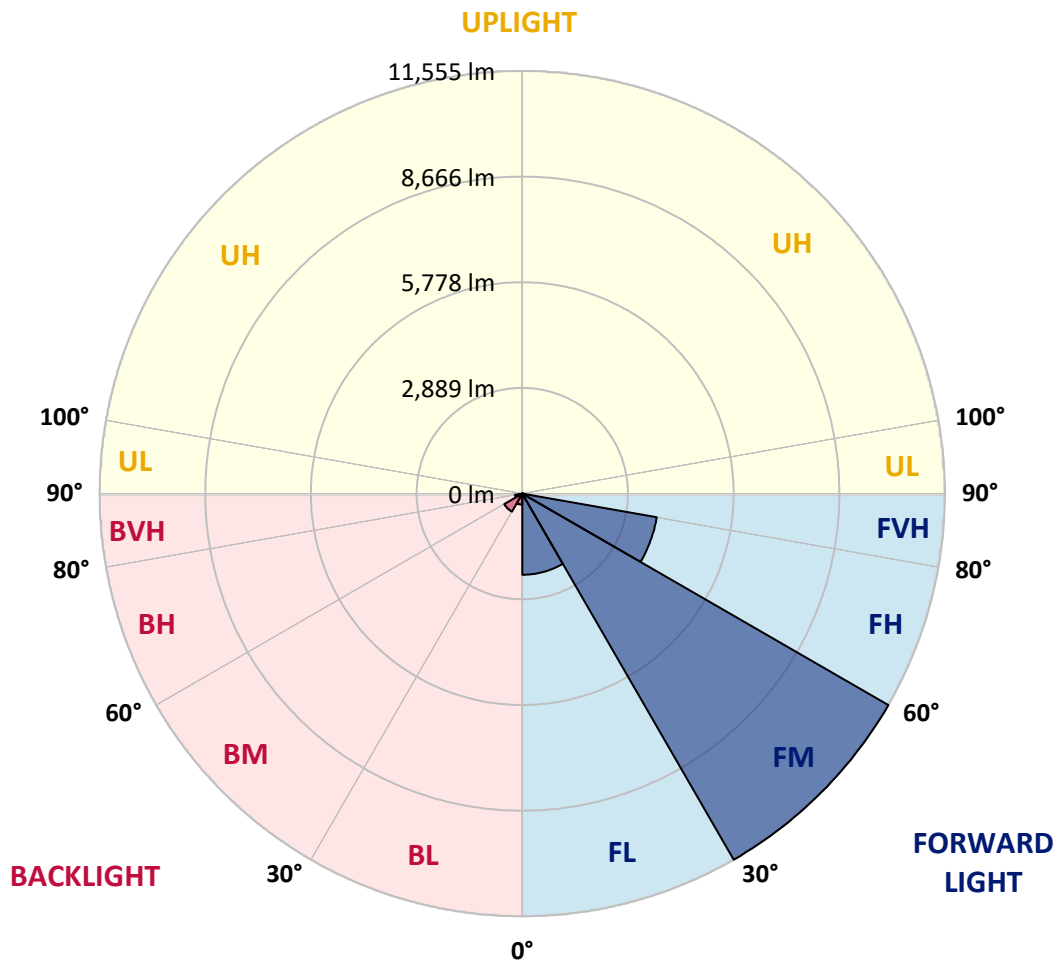
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2217.9	11.9			
FM (30°-60°)	11555.3	62.1			
FH (60°-80°)	3733.1	20.0			G2/5000
FVH (80°-90°)	41.7	0.2			G1/100
BL (0°-30°)	300.0	1.6	B1/500		
BM (30°-60°)	568.6	3.1	B1/1000		
BH (60°-80°)	201.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6
2.5°	2282.1	2261.6	2220.4	2206.3	2145.9	2052.0	1969.7	1859.1	1771.7	1762.7	1657.3
5°	3056.1	3009.9	2990.6	2898.0	2752.7	2616.4	2382.4	2205.0	2000.6	1985.1	1773.0
7.5°	3801.8	3737.6	3718.3	3630.8	3461.1	3246.4	2943.0	2620.3	2296.3	2266.7	1928.6
10°	4341.8	4350.8	4316.1	4258.3	4120.7	3902.1	3528.0	3087.0	2625.4	2588.1	2103.4
12.5°	4728.8	4727.6	4734.0	4732.7	4659.4	4493.6	4100.1	3592.3	2988.0	2914.7	2304.0
15°	4980.8	4984.7	5004.0	5070.8	5078.6	4975.7	4647.8	4075.7	3408.4	3317.1	2521.3
17.5°	5235.4	5262.4	5293.3	5356.3	5412.8	5371.7	5140.3	4579.7	3789.0	3720.8	2754.0
20°	5655.8	5693.1	5675.1	5713.7	5743.3	5747.1	5568.4	5045.1	4250.6	4136.1	3020.1
22.5°	6328.3	6327.0	6280.7	6211.3	6153.4	6150.8	5988.8	5523.4	4669.7	4559.1	3287.6
25°	7178.1	7182.0	7092.0	6894.0	6750.0	6573.8	6387.4	5942.6	5118.4	4982.1	3569.1
27.5°	8152.7	8128.3	7992.0	7719.4	7434.0	7133.1	6864.4	6429.8	5594.1	5481.0	3891.8
30°	9028.3	9019.3	8859.8	8526.8	8151.4	7849.3	7459.7	7040.6	6210.0	6071.1	4253.1
32.5°	9843.4	9856.3	9635.1	9290.6	8928.0	8579.6	8168.1	7624.3	6814.3	6617.6	4646.6
35°	10479.8	10492.7	10263.8	9977.1	9604.3	9315.0	8922.8	8246.6	7410.8	7245.0	5099.1
37.5°	10819.3	10836.0	10703.5	10487.6	10254.8	10109.6	9744.4	9047.6	8136.0	8035.7	5634.0
40°	10883.5	10902.8	10845.0	10787.1	10774.3	10878.4	10771.7	9991.3	9141.4	8984.6	6431.1
42.5°	10690.7	10716.4	10742.1	10870.7	11133.0	11514.8	11886.4	11271.8	10436.1	10225.3	7405.7
45°	10184.1	10181.6	10283.1	10616.1	11203.7	12018.8	13051.3	12875.1	12200.1	11949.4	8782.7
47.5°	9317.6	9304.7	9524.6	9999.0	10914.4	12111.4	14001.4	14821.7	14451.4	14220.0	10262.6
50°	7997.1	8060.1	8406.0	9068.1	10195.7	11831.1	14294.5	16098.4	16299.0	16053.4	11458.3
52.5°	6450.4	6447.8	6990.4	7889.1	9131.1	11214.0	14090.1	16329.8	16899.4	16711.7	12047.1
55°	4773.8	4807.3	5371.7	6278.1	7749.0	10087.7	13422.8	16092.0	17128.3	16995.8	12435.4
57°	3551.1	3610.3	4062.8	5022.0	6545.6	8973.0	12534.4	15666.4	17218.3	17146.3	12758.1
57.5°	3314.6	3317.1	3758.1	4629.8	6193.3	8544.8	12279.8	15489.0	17215.7	17175.8	12810.8
60°	2040.4	2104.7	2409.4	3129.4	4533.4	6669.0	10573.7	14469.4	17082.0	17139.8	13035.8
62.5°	1221.4	1248.4	1446.4	1886.1	2922.4	4867.7	8652.8	13164.4	16733.5	16909.7	13020.4
65°	785.6	792.0	882.0	1141.7	1827.0	3290.1	6667.7	11440.3	15832.3	16156.3	12511.3
67.5°	606.9	617.1	653.1	749.6	1059.4	2049.4	4716.0	9600.4	14374.3	14792.1	11277.0
70°	538.7	543.9	556.7	587.6	700.7	1157.1	2934.0	7499.6	11919.8	12038.1	8825.1
72.5°	439.7	453.9	493.7	504.0	555.4	722.6	1632.9	5033.6	8008.7	8038.3	4937.1
75°	340.7	343.3	402.4	432.0	468.0	497.6	729.0	2538.0	3846.8	3641.1	1902.9
77.5°	254.6	266.1	293.1	330.4	381.9	356.1	326.6	956.6	1194.4	1172.6	552.9
80°	163.3	169.7	204.4	248.1	297.0	232.7	183.9	280.3	262.3	270.0	132.4
82.5°	82.3	83.6	131.1	201.9	189.0	117.0	115.7	114.4	97.7	96.4	61.7
85°	9.0	19.3	84.9	115.7	84.9	38.6	54.0	52.7	51.4	52.7	36.0
87.5°	1.3	1.3	14.1	16.7	11.6	12.9	15.4	16.7	20.6	19.3	15.4
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°	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6
2.5°	1605.9	1554.4	1459.3	1368.0	1299.9	1256.1	1199.6	1179.0	1149.4	1145.6	1131.4
5°	1675.3	1577.6	1411.7	1280.6	1175.1	1095.4	1026.0	968.1	921.9	911.6	916.7
7.5°	1774.3	1629.0	1397.6	1218.9	1072.3	936.0	825.4	757.3	708.4	690.4	693.0
10°	1886.1	1697.1	1395.0	1153.3	929.6	762.4	641.6	581.1	552.9	542.6	531.0
12.5°	2018.6	1775.6	1388.6	1051.7	772.7	608.1	522.0	486.0	459.0	451.3	451.3
15°	2167.7	1859.1	1357.7	925.7	627.4	502.7	444.9	416.6	407.6	399.9	399.9
17.5°	2323.3	1941.4	1293.4	770.1	520.7	430.7	394.7	378.0	365.1	356.1	356.1
20°	2500.7	2022.4	1190.6	632.6	439.7	384.4	356.1	336.9	326.6	318.9	316.3
22.5°	2669.1	2088.0	1059.4	519.4	383.1	345.9	320.1	299.6	289.3	285.4	285.4
25°	2844.0	2127.9	901.3	429.4	349.7	313.7	285.4	268.7	259.7	257.1	255.9
27.5°	3013.7	2151.0	762.4	375.4	318.9	284.1	257.1	244.3	235.3	232.7	234.0
30°	3219.4	2154.9	627.4	336.9	291.9	255.9	231.4	219.9	214.7	212.1	210.9
32.5°	3427.7	2149.7	527.1	313.7	266.1	231.4	210.9	201.9	198.0	194.1	194.1
35°	3661.7	2122.7	448.7	290.6	241.7	210.9	192.9	185.1	180.0	176.1	174.9
37.5°	3952.3	2108.6	403.7	264.9	219.9	191.6	174.9	167.1	163.3	158.1	156.9
40°	4410.0	2171.6	389.6	241.7	198.0	173.6	158.1	149.1	144.0	138.9	137.6
42.5°	4980.8	2282.1	366.4	218.6	178.7	156.9	141.4	131.1	122.1	115.7	113.1
45°	5720.1	2427.4	330.4	194.1	162.0	138.9	124.7	111.9	100.3	95.1	93.9
47.5°	6495.4	2567.6	298.3	174.9	144.0	123.4	108.0	93.9	83.6	79.7	78.4
50°	6971.1	2595.9	277.7	153.0	126.0	106.7	91.3	78.4	72.0	68.1	68.1
52.5°	7188.4	2550.9	249.4	133.7	109.3	93.9	78.4	68.1	64.3	61.7	60.4
55°	7340.1	2481.4	212.1	115.7	93.9	79.7	69.4	61.7	56.6	54.0	52.7
57°	7428.8	2387.6	183.9	101.6	81.0	69.4	61.7	55.3	50.1	45.0	45.0
57.5°	7432.7	2351.6	176.1	100.3	77.1	66.9	60.4	54.0	47.6	42.4	41.1
60°	7318.3	2104.7	141.4	84.9	61.7	56.6	50.1	42.4	33.4	28.3	27.0
62.5°	6950.6	1791.0	117.0	72.0	50.1	43.7	36.0	32.1	23.1	16.7	16.7
65°	6393.8	1452.9	100.3	57.9	41.1	32.1	24.4	23.1	14.1	7.7	6.4
67.5°	5589.0	1131.4	84.9	47.6	34.7	23.1	16.7	15.4	7.7	2.6	0.0
70°	4258.3	771.4	70.7	38.6	25.7	16.7	11.6	9.0	5.1	1.3	0.0
72.5°	2454.4	424.3	59.1	29.6	19.3	12.9	9.0	5.1	5.1	0.0	0.0
75°	876.9	182.6	45.0	21.9	15.4	10.3	6.4	2.6	3.9	1.3	0.0
77.5°	279.0	97.7	29.6	16.7	12.9	7.7	5.1	2.6	2.6	1.3	0.0
80°	82.3	51.4	18.0	14.1	9.0	6.4	3.9	1.3	2.6	1.3	0.0
82.5°	45.0	25.7	14.1	10.3	9.0	5.1	3.9	1.3	1.3	1.3	0.0
85°	23.1	15.4	11.6	10.3	9.0	5.1	3.9	1.3	0.0	1.3	1.3
87.5°	12.9	11.6	11.6	10.3	9.0	6.4	3.9	1.3	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)