

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: P455926

Luminaire Tested: **GALN-SA7A-827-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18333 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

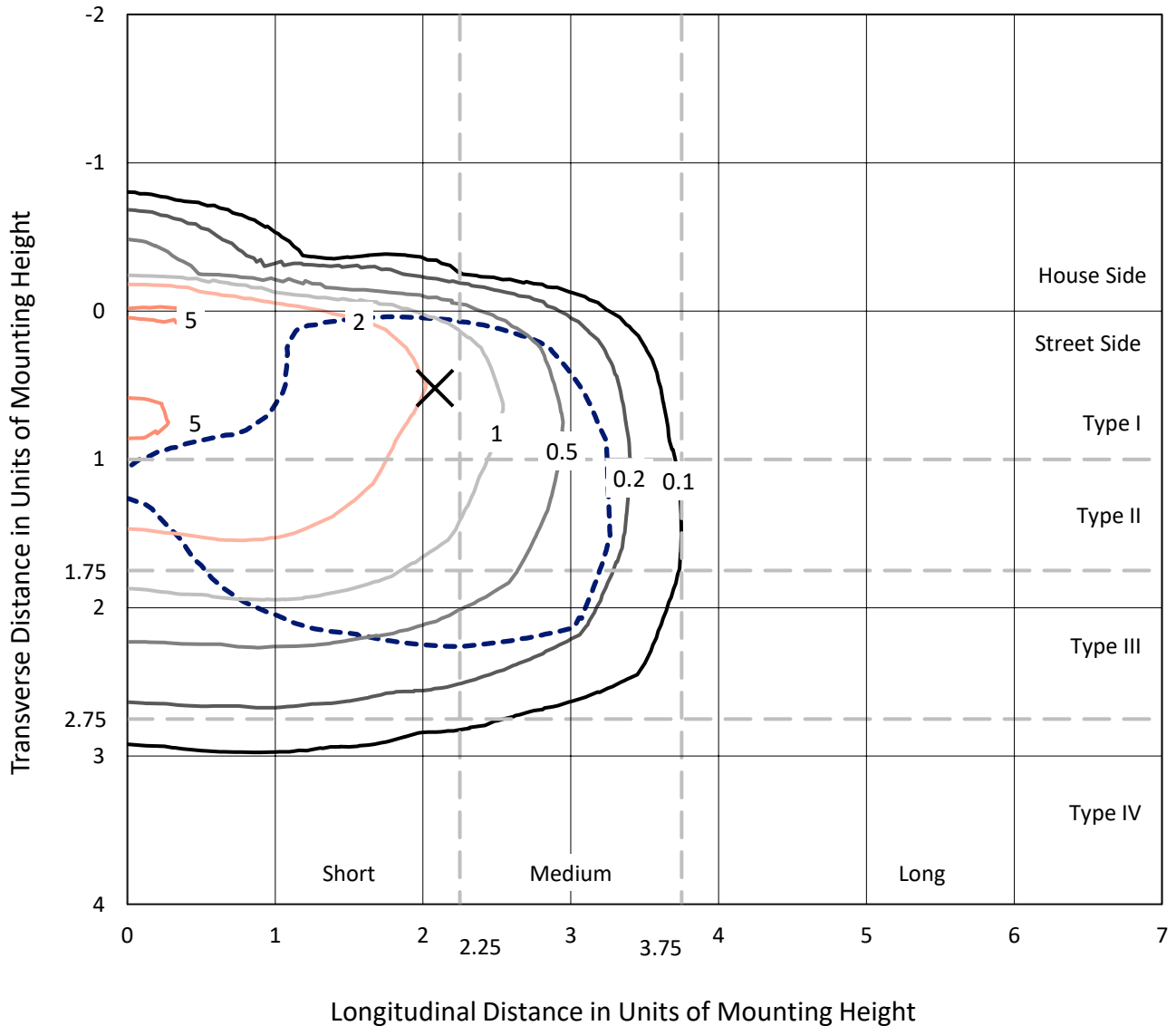
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

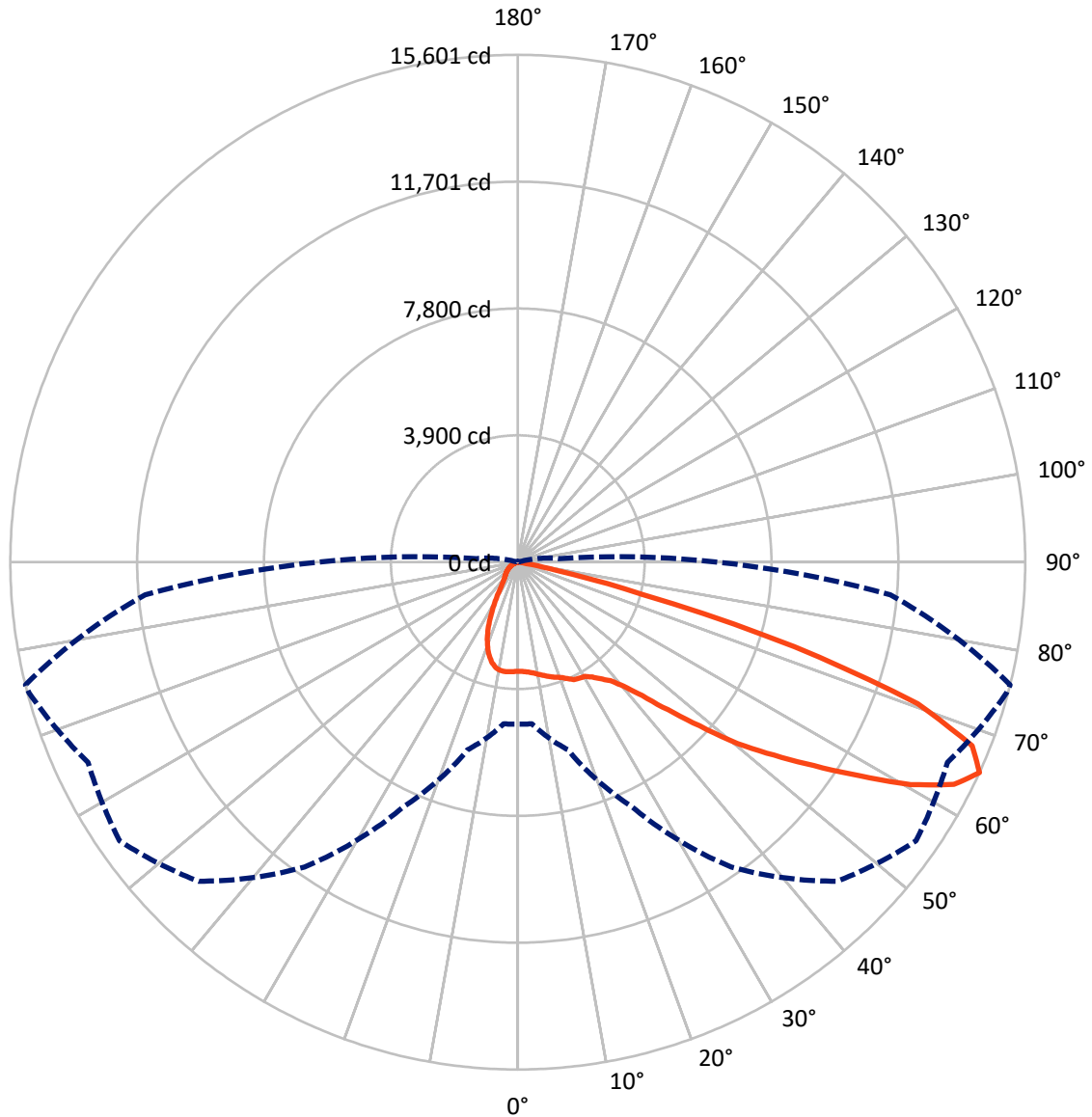
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1324.0	0.0	1324.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	17009.0	0.0	17009.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	18333.0	0.0	18333.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.3	1.5
10°-20°	615.1	3.4
20°-30°	991.2	5.4
30°-40°	1723.5	9.4
40°-50°	2848.0	15.5
50°-60°	4399.5	24.0
60°-70°	5372.4	29.3
70°-80°	2039.0	11.1
80°-90°	68.1	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°	18333.0	100.0
0°-180°	18333.0	100.0

Coefficient of Utilization



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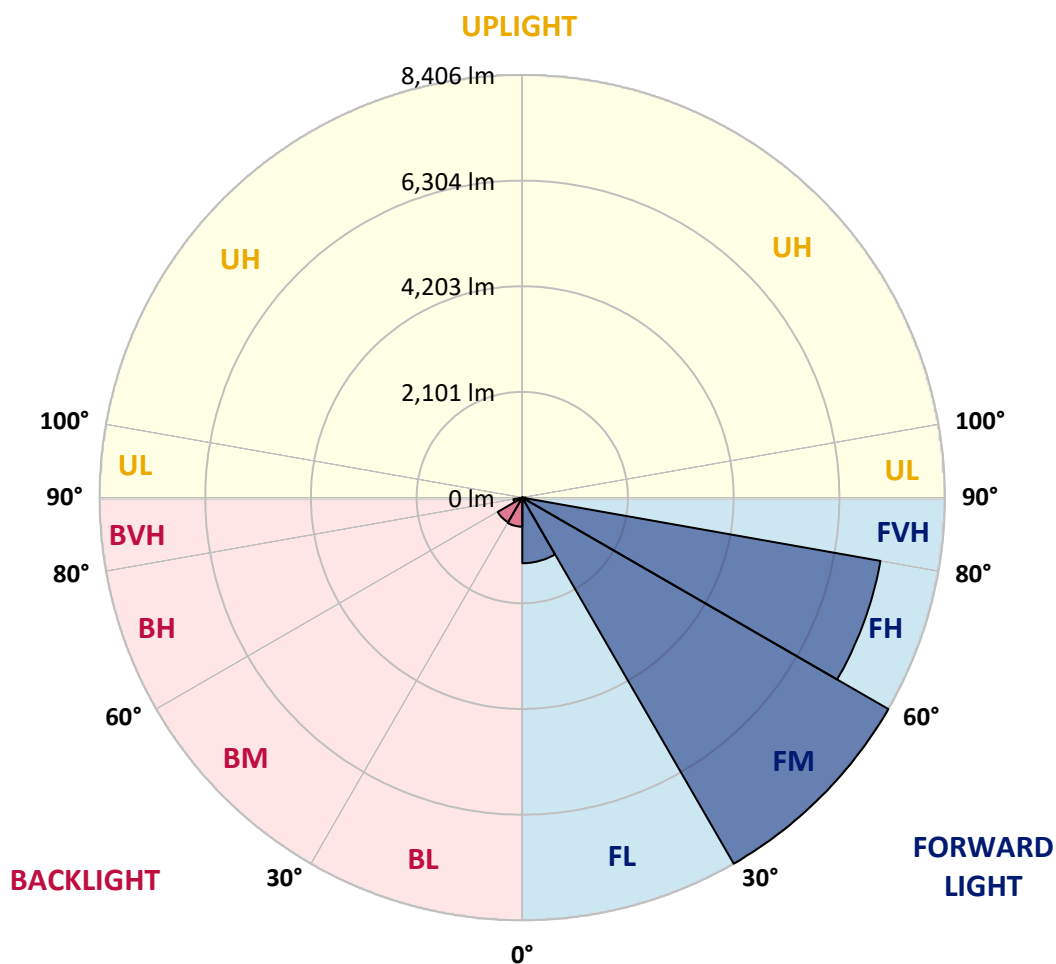
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1304.2	7.1			
FM	(30°-60°)	8406.0	45.9			
FH	(60°-80°)	7231.7	39.4			G3/7500
FVH	(80°-90°)	67.1	0.4			G1/100
BL	(0°-30°)	578.4	3.2	B2/1000		
BM	(30°-60°)	565.0	3.1	B1/1000		
BH	(60°-80°)	179.7	1.0	B1/500		G1/500
BVH	(80°-90°)	0.9	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3353.7	3353.7	3353.7	3353.7	3353.7	3353.7	3353.7	3353.7	3353.7	3353.7	3353.7
2.5°	3204.8	3206.1	3213.9	3233.3	3263.1	3287.7	3308.4	3342.0	3365.3	3367.9	3375.7
5°	2983.5	2968.0	2983.5	3034.0	3079.3	3147.9	3232.0	3316.2	3391.2	3396.4	3432.6
7.5°	2735.0	2747.9	2772.5	2824.3	2909.7	3014.6	3136.2	3286.4	3428.8	3441.7	3512.9
10°	2482.6	2511.1	2551.2	2630.1	2749.2	2885.1	3050.8	3265.7	3488.3	3506.4	3629.4
12.5°	2249.6	2262.5	2311.7	2417.9	2565.4	2757.0	2986.1	3254.0	3554.3	3576.3	3753.6
15°	2071.0	2087.8	2130.5	2226.3	2390.7	2636.6	2933.0	3250.1	3619.0	3650.1	3877.9
17.5°	2037.3	2047.7	2065.8	2130.5	2274.2	2540.8	2885.1	3248.8	3681.2	3718.7	3993.1
20°	2175.8	2166.8	2148.6	2142.2	2221.1	2467.1	2850.2	3259.2	3740.7	3783.4	4114.8
22.5°	2522.7	2534.4	2428.2	2302.7	2276.8	2455.4	2845.0	3308.4	3835.2	3885.7	4250.7
25°	3259.2	3169.9	3004.2	2703.9	2477.4	2526.6	2903.3	3424.9	3945.2	4000.9	4373.6
27.5°	4073.4	4046.2	3788.6	3294.2	2872.2	2676.7	3006.8	3514.2	3981.5	4038.4	4443.5
30°	4873.3	4905.6	4610.5	4064.3	3445.6	2955.0	3103.9	3547.8	4013.8	4073.4	4532.9
32.5°	5614.9	5653.8	5394.9	4853.9	4121.2	3436.5	3270.9	3678.6	4149.7	4210.6	4681.7
35°	6198.7	6203.9	6008.4	5577.4	4859.0	4021.6	3632.0	3907.7	4333.5	4404.7	4839.6
37.5°	6734.6	6726.8	6497.7	6126.2	5473.9	4602.7	4086.3	4171.7	4543.2	4617.0	5067.4
40°	7131.9	7137.1	7063.3	6713.9	6047.3	5139.9	4446.1	4419.0	4895.3	5010.5	5398.8
42.5°	7397.3	7445.2	7481.4	7304.1	6768.2	5801.3	4998.8	4948.3	5506.2	5602.0	5867.3
45°	7612.1	7697.6	7878.8	7869.7	7460.7	6612.9	5757.3	5653.8	6372.1	6474.4	6464.0
47.5°	7768.8	7855.5	8155.8	8337.0	8111.8	7399.9	6711.3	6622.0	7406.3	7517.7	7122.9
50°	7849.0	7952.6	8335.7	8686.5	8620.4	8158.4	7798.5	7803.7	8655.4	8762.8	7886.5
52.5°	7661.3	7795.9	8431.5	9063.1	9191.3	8884.5	8817.2	8988.0	9767.3	9859.2	8576.4
55°	7062.0	7231.6	8300.7	9384.1	9852.7	9741.4	9974.4	10234.5	10982.7	11042.2	9284.5
57.5°	6682.8	6862.7	7915.0	9657.2	10647.4	10818.3	11187.2	11377.4	12236.9	12388.3	10097.3
60°	6363.1	6504.2	7597.9	9715.5	11455.1	12135.9	12494.5	12691.2	13785.0	13883.3	10991.7
62.5°	5831.1	5992.9	7062.0	9309.0	11861.5	13190.8	13933.8	13845.8	14982.2	15050.8	11540.5
65°	4975.5	4989.8	5974.8	8287.8	11442.2	13875.6	14944.7	14575.8	15554.3	15600.9	11497.8
67.5°	3713.5	3850.7	4596.3	6514.5	9665.0	13290.5	15272.2	14595.2	15193.2	15063.8	10585.3
70°	2392.0	2496.8	3115.5	4517.3	6968.8	11091.4	14186.2	13594.7	13334.5	13047.2	8664.5
72.5°	1104.1	1238.7	1850.9	2581.0	4132.9	7900.8	11515.9	11044.8	9597.7	8888.4	5507.5
75°	481.5	515.2	913.8	1361.7	1937.7	4178.2	7592.7	6856.2	4334.8	3959.5	2204.3
77.5°	293.8	315.8	478.9	730.0	761.1	1592.1	4090.2	2991.3	1339.7	1181.8	598.0
80°	199.3	223.9	348.2	381.8	260.2	444.0	1535.1	798.6	270.5	258.9	128.1
82.5°	97.1	123.0	257.6	213.6	112.6	142.4	446.6	170.9	79.0	73.8	45.3
85°	14.2	24.6	145.0	139.8	50.5	33.7	79.0	42.7	27.2	25.9	20.7
87.5°	0.0	0.0	49.2	22.0	5.2	5.2	9.1	9.1	10.4	9.1	10.4
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°	3353.7	3353.7	3353.7	3353.7	3353.7	3353.7	3353.7	3353.7	3353.7	3353.7	3353.7
2.5°	3379.6	3386.0	3361.5	3326.5	3289.0	3251.4	3198.4	3150.5	3122.0	3138.8	3097.4
5°	3440.4	3435.2	3370.5	3264.4	3123.3	2953.7	2785.5	2641.8	2595.2	2525.3	2517.5
7.5°	3524.5	3510.3	3373.1	3129.8	2811.4	2492.9	2182.3	1976.5	1858.7	1759.0	1761.6
10°	3642.3	3600.9	3343.3	2892.9	2368.7	1888.5	1492.4	1220.6	1102.8	1065.3	1035.5
12.5°	3764.0	3683.8	3260.5	2573.2	1844.5	1290.5	907.3	741.7	669.2	645.9	643.3
15°	3872.7	3745.9	3115.5	2188.8	1341.0	824.5	618.7	564.3	555.3	556.6	555.3
17.5°	3980.2	3795.1	2914.9	1781.0	911.2	591.5	532.0	519.0	522.9	528.1	526.8
20°	4069.5	3805.4	2658.6	1359.1	644.6	519.0	499.6	497.0	500.9	504.8	504.8
22.5°	4166.5	3813.2	2354.4	941.0	526.8	482.8	472.4	472.4	477.6	482.8	484.1
25°	4239.0	3770.5	1990.7	675.7	464.7	447.8	442.7	444.0	449.1	451.7	450.4
27.5°	4250.7	3650.1	1605.0	517.7	422.0	405.1	400.0	405.1	398.7	402.5	400.0
30°	4261.0	3497.4	1214.1	436.2	383.1	357.2	349.5	341.7	336.5	330.1	328.8
32.5°	4293.4	3317.4	886.6	392.2	346.9	318.4	300.3	278.3	261.5	256.3	255.0
35°	4307.6	3101.3	651.1	357.2	314.5	283.5	251.1	220.0	195.4	186.4	192.9
37.5°	4362.0	2891.6	504.8	331.4	286.1	247.2	205.8	167.0	143.7	138.5	141.1
40°	4473.3	2663.8	423.3	309.4	261.5	213.6	163.1	125.6	110.0	104.8	103.5
42.5°	4651.9	2437.3	376.7	288.6	236.9	179.9	128.1	98.4	85.4	81.5	81.5
45°	4869.4	2219.8	344.3	266.6	211.0	145.0	101.0	79.0	71.2	68.6	68.6
47.5°	5155.4	2029.6	317.1	244.6	182.5	115.2	81.5	68.6	63.4	64.7	66.0
50°	5445.4	1888.5	287.3	220.0	150.1	94.5	69.9	60.8	59.5	60.8	60.8
52.5°	5664.1	1805.6	247.2	186.4	117.8	79.0	62.1	57.0	55.7	53.1	53.1
55°	5959.2	1787.5	196.7	151.4	93.2	66.0	55.7	51.8	47.9	45.3	44.0
57.5°	6338.5	1808.2	151.4	117.8	72.5	54.4	49.2	42.7	37.5	32.4	32.4
60°	6574.1	1761.6	117.8	90.6	53.1	44.0	37.5	31.1	24.6	20.7	19.4
62.5°	6499.0	1564.9	93.2	67.3	37.5	32.4	24.6	20.7	14.2	10.4	9.1
65°	6112.0	1263.3	75.1	46.6	27.2	19.4	12.9	12.9	6.5	1.3	0.0
67.5°	5349.6	935.8	59.5	31.1	15.5	9.1	6.5	3.9	0.0	0.0	0.0
70°	4354.2	675.7	46.6	19.4	9.1	6.5	2.6	1.3	0.0	0.0	0.0
72.5°	2764.8	387.0	36.2	11.6	6.5	2.6	0.0	0.0	0.0	0.0	0.0
75°	1069.1	151.4	24.6	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	302.9	71.2	14.2	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	79.0	31.1	7.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.5	12.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.0	5.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	1.3	0.0	0.0	0.0	0.0	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)