

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: P459116

Luminaire Tested: **GALN-SA6A-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459116
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-SA6A-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 19778 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

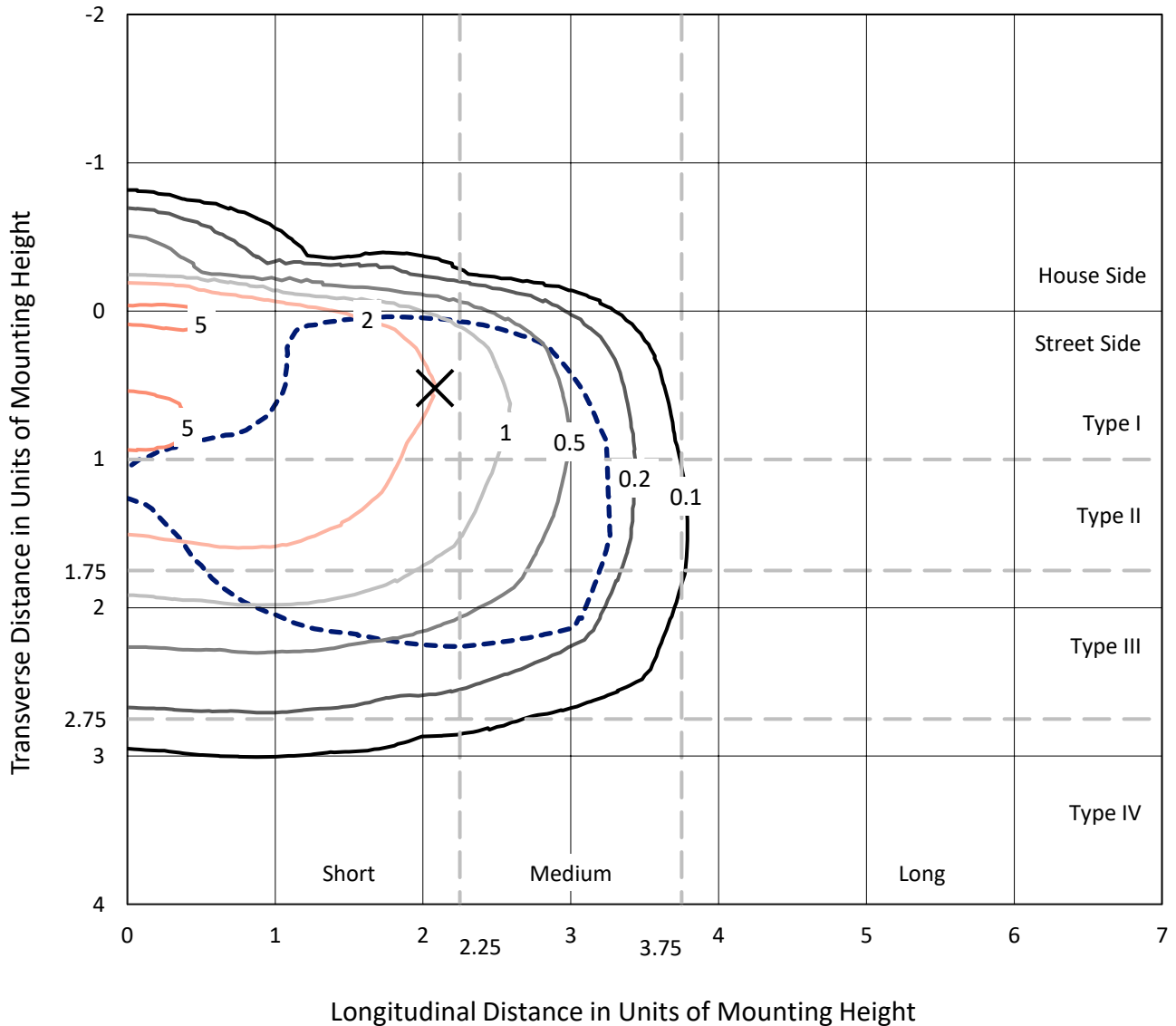
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

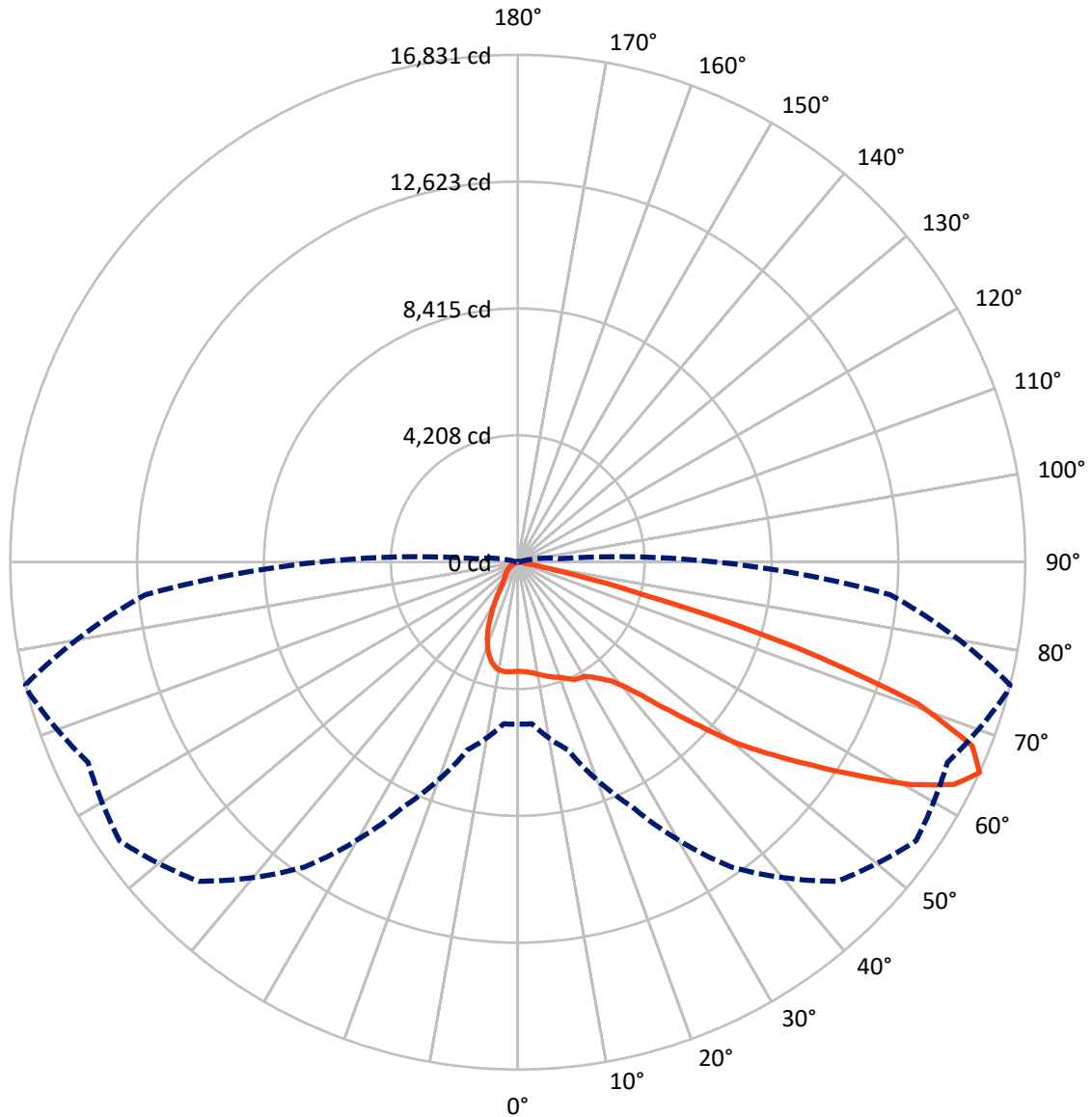
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	1428.4	0.0	1428.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	18349.6	0.0	18349.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	19778.0	0.0	19778.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.0	1.5
10°-20°	663.6	3.4
20°-30°	1069.3	5.4
30°-40°	1859.3	9.4
40°-50°	3072.4	15.5
50°-60°	4746.3	24.0
60°-70°	5795.9	29.3
70°-80°	2199.7	11.1
80°-90°	73.4	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°	19778.0	100.0
0°-180°	19778.0	100.0

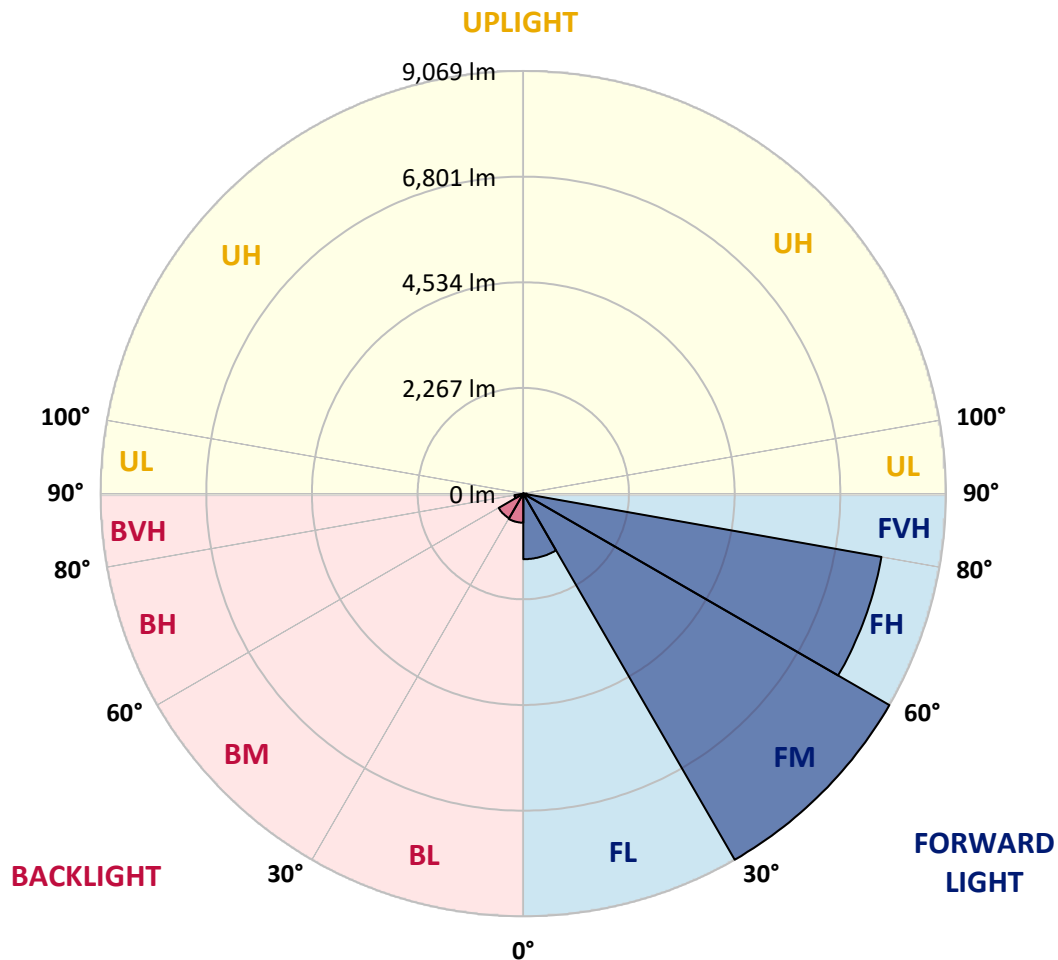


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1407.0	7.1			
FM (30°-60°)	9068.5	45.9			
FH (60°-80°)	7801.8	39.4			G4/12000
FVH (80°-90°)	72.4	0.4			G1/100
BL (0°-30°)	624.0	3.2	B2/1000		
BM (30°-60°)	609.5	3.1	B1/1000		
BH (60°-80°)	193.8	1.0	B1/500		G1/500
BVH (80°-90°)	1.0	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°	65°	75°	76°	85°
0°	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0
2.5°	3457.4	3458.8	3467.2	3488.2	3520.3	3546.8	3569.2	3605.5	3630.6	3633.4	3641.8
5°	3218.7	3201.9	3218.7	3273.1	3322.0	3396.0	3486.8	3577.5	3658.5	3664.1	3703.2
7.5°	2950.6	2964.5	2991.1	3046.9	3139.1	3252.2	3383.4	3545.4	3699.0	3713.0	3789.8
10°	2678.3	2709.0	2752.3	2837.4	2965.9	3112.5	3291.3	3523.1	3763.3	3782.8	3915.5
12.5°	2426.9	2440.9	2493.9	2608.4	2767.6	2974.3	3221.5	3510.5	3834.5	3858.2	4049.5
15°	2234.2	2252.4	2298.4	2401.8	2579.1	2844.4	3164.2	3506.3	3904.3	3937.8	4183.6
17.5°	2197.9	2209.1	2228.6	2298.4	2453.4	2741.1	3112.5	3504.9	3971.3	4011.8	4307.8
20°	2347.3	2337.5	2318.0	2311.0	2396.2	2661.5	3074.8	3516.1	4035.5	4081.6	4439.1
22.5°	2721.5	2734.1	2619.6	2484.2	2456.2	2648.9	3069.2	3569.2	4137.5	4191.9	4585.7
25°	3516.1	3419.7	3241.0	2917.0	2672.7	2725.7	3132.1	3694.8	4256.2	4316.2	4718.4
27.5°	4394.4	4365.1	4087.2	3553.8	3098.6	2887.7	3243.8	3791.2	4295.3	4356.7	4793.8
30°	5257.4	5292.3	4973.9	4384.6	3717.2	3187.9	3348.5	3827.5	4330.2	4394.4	4890.1
32.5°	6057.5	6099.4	5820.1	5236.4	4446.1	3707.4	3528.7	3968.5	4476.8	4542.4	5050.7
35°	6687.3	6692.9	6482.0	6017.0	5242.0	4338.6	3918.2	4215.7	4675.1	4751.9	5221.1
37.5°	7265.4	7257.0	7009.8	6609.1	5905.3	4965.5	4408.4	4500.5	4901.3	4980.9	5466.8
40°	7694.1	7699.7	7620.1	7243.0	6523.9	5545.0	4796.6	4767.3	5281.1	5405.4	5824.3
42.5°	7980.3	8032.0	8071.1	7879.8	7301.7	6258.6	5392.8	5338.4	5940.2	6043.5	6329.8
45°	8212.1	8304.3	8499.8	8490.0	8048.7	7134.1	6211.1	6099.4	6874.4	6984.7	6973.5
47.5°	8381.1	8474.6	8798.6	8994.1	8751.1	7983.1	7240.2	7143.9	7990.1	8110.2	7684.3
50°	8467.7	8579.4	8992.7	9371.1	9299.9	8801.4	8413.2	8418.8	9337.6	9453.5	8508.2
52.5°	8265.2	8410.4	9096.0	9777.5	9915.7	9584.8	9512.2	9696.5	10537.1	10636.2	9252.4
55°	7618.7	7801.6	8955.0	10123.8	10629.3	10509.2	10760.5	11041.2	11848.3	11912.5	10016.3
57.5°	7209.5	7403.6	8538.9	10418.4	11486.6	11671.0	12068.9	12274.2	13201.4	13364.8	10893.2
60°	6864.6	7016.8	8196.8	10481.2	12358.0	13092.5	13479.3	13691.5	14871.5	14977.6	11858.1
62.5°	6290.7	6465.3	7618.7	10042.8	12796.5	14230.5	15032.1	14937.1	16163.1	16237.1	12450.1
65°	5367.7	5383.1	6445.7	8941.0	12344.0	14969.2	16122.6	15724.7	16780.3	16830.6	12404.1
67.5°	4006.2	4154.2	4958.6	7028.0	10426.8	14338.1	16475.9	15745.6	16390.7	16251.1	11419.6
70°	2580.5	2693.6	3361.1	4873.4	7518.1	11965.6	15304.4	14666.2	14385.5	14075.5	9347.4
72.5°	1191.1	1336.3	1996.8	2784.4	4458.6	8523.5	12423.6	11915.3	10354.2	9589.0	5941.6
75°	519.5	555.8	985.8	1469.0	2090.4	4507.5	8191.2	7396.6	4676.5	4271.5	2378.0
77.5°	317.0	340.7	516.7	787.6	821.1	1717.6	4412.6	3227.0	1445.3	1274.9	645.1
80°	215.0	241.6	375.6	411.9	280.7	479.0	1656.1	861.6	291.8	279.3	138.2
82.5°	104.7	132.7	277.9	230.4	121.5	153.6	481.8	184.3	85.2	79.6	48.9
85°	15.4	26.5	156.4	150.8	54.5	36.3	85.2	46.1	29.3	27.9	22.3
87.5°	0.0	0.0	53.1	23.7	5.6	5.6	9.8	9.8	11.2	9.8	11.2
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°	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0	3618.0
2.5°	3646.0	3652.9	3626.4	3588.7	3548.2	3507.7	3450.5	3398.8	3368.1	3386.2	3341.5
5°	3711.6	3706.0	3636.2	3521.7	3369.5	3186.5	3005.0	2850.0	2799.7	2724.3	2716.0
7.5°	3802.3	3787.0	3639.0	3376.5	3032.9	2689.4	2354.3	2132.3	2005.2	1897.7	1900.5
10°	3929.4	3884.7	3606.9	3120.9	2555.4	2037.3	1610.0	1316.8	1189.7	1149.2	1117.1
12.5°	4060.7	3974.1	3517.5	2776.0	1989.8	1392.2	978.9	800.1	721.9	696.8	694.0
15°	4178.0	4041.1	3361.1	2361.3	1446.7	889.5	667.5	608.8	599.0	600.4	599.0
17.5°	4293.9	4094.2	3144.7	1921.4	983.1	638.1	573.9	559.9	564.1	569.7	568.3
20°	4390.2	4105.4	2868.2	1466.2	695.4	559.9	539.0	536.2	540.4	544.6	544.6
22.5°	4495.0	4113.7	2540.0	1015.2	568.3	520.9	509.7	509.7	515.3	520.9	522.2
25°	4573.2	4067.7	2147.6	728.9	501.3	483.1	477.6	479.0	484.5	487.3	485.9
27.5°	4585.7	3937.8	1731.5	558.6	455.2	437.1	431.5	437.1	430.1	434.3	431.5
30°	4596.9	3773.0	1309.8	470.6	413.3	385.4	377.0	368.6	363.1	356.1	354.7
32.5°	4631.8	3578.9	956.5	423.1	374.2	343.5	324.0	300.2	282.1	276.5	275.1
35°	4647.2	3345.7	702.4	385.4	339.3	305.8	270.9	237.4	210.9	201.1	208.1
37.5°	4705.8	3119.5	544.6	357.5	308.6	266.7	222.0	180.1	155.0	149.4	152.2
40°	4825.9	2873.8	456.6	333.7	282.1	230.4	175.9	135.4	118.7	113.1	111.7
42.5°	5018.6	2629.4	406.3	311.4	255.5	194.1	138.2	106.1	92.2	88.0	88.0
45°	5253.2	2394.8	371.4	287.7	227.6	156.4	108.9	85.2	76.8	74.0	74.0
47.5°	5561.8	2189.5	342.1	263.9	196.9	124.3	88.0	74.0	68.4	69.8	71.2
50°	5874.6	2037.3	310.0	237.4	162.0	101.9	75.4	65.6	64.2	65.6	65.6
52.5°	6110.6	1948.0	266.7	201.1	127.1	85.2	67.0	61.4	60.0	57.3	57.3
55°	6428.9	1928.4	212.3	163.4	100.5	71.2	60.0	55.9	51.7	48.9	47.5
57.5°	6838.1	1950.7	163.4	127.1	78.2	58.6	53.1	46.1	40.5	34.9	34.9
60°	7092.2	1900.5	127.1	97.7	57.3	47.5	40.5	33.5	26.5	22.3	20.9
62.5°	7011.2	1688.2	100.5	72.6	40.5	34.9	26.5	22.3	15.4	11.2	9.8
65°	6593.7	1362.9	81.0	50.3	29.3	20.9	14.0	14.0	7.0	1.4	0.0
67.5°	5771.2	1009.6	64.2	33.5	16.8	9.8	7.0	4.2	0.0	0.0	0.0
70°	4697.4	728.9	50.3	20.9	9.8	7.0	2.8	1.4	0.0	0.0	0.0
72.5°	2982.7	417.5	39.1	12.6	7.0	2.8	0.0	0.0	0.0	0.0	0.0
75°	1153.4	163.4	26.5	8.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	326.8	76.8	15.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	85.2	33.5	8.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	40.5	14.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.7	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.2	1.4	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)