

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: P456245

Luminaire Tested: **GALN-SA7C-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456245
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-SA7C-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1050mA 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: 32063 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

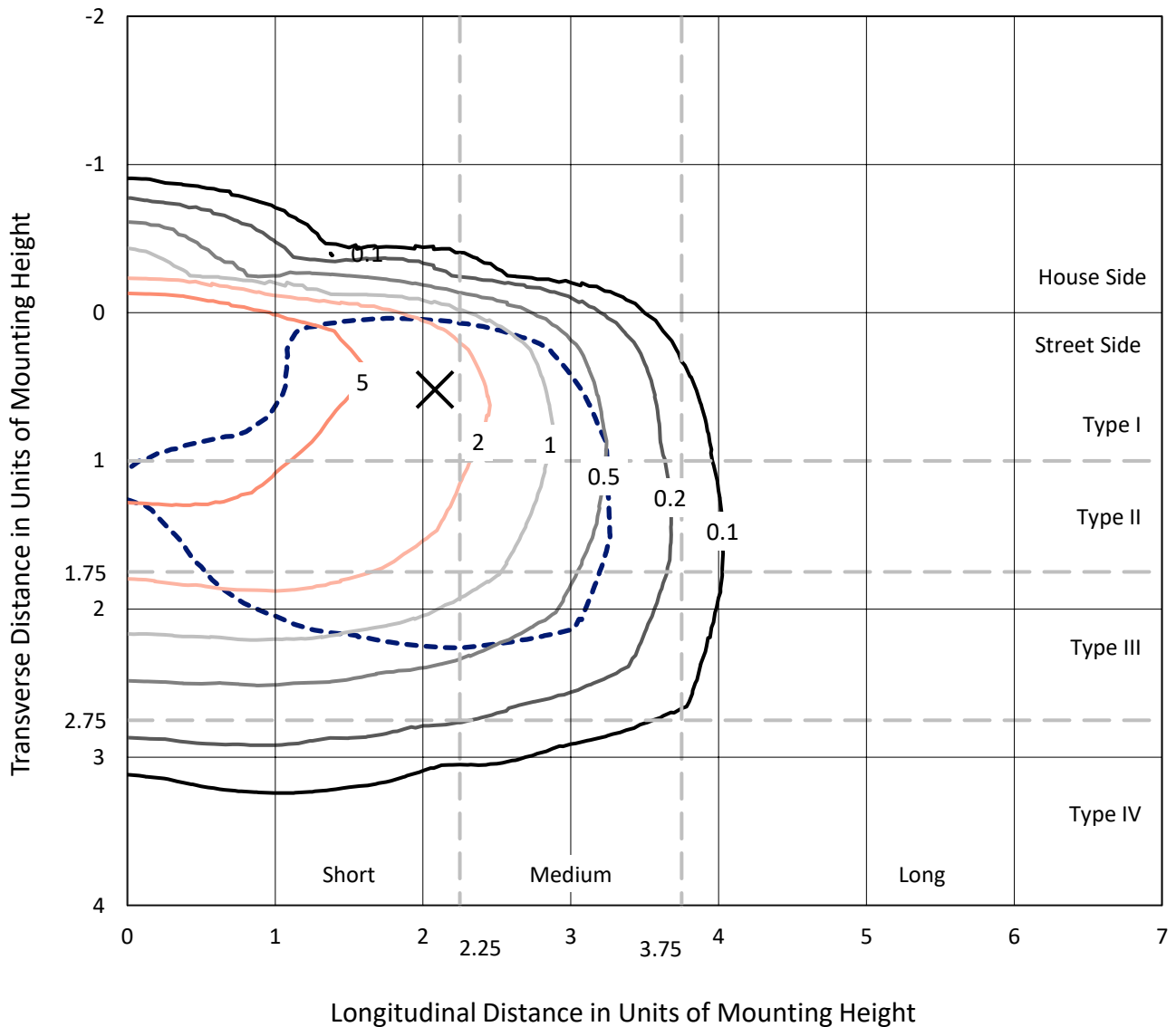
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

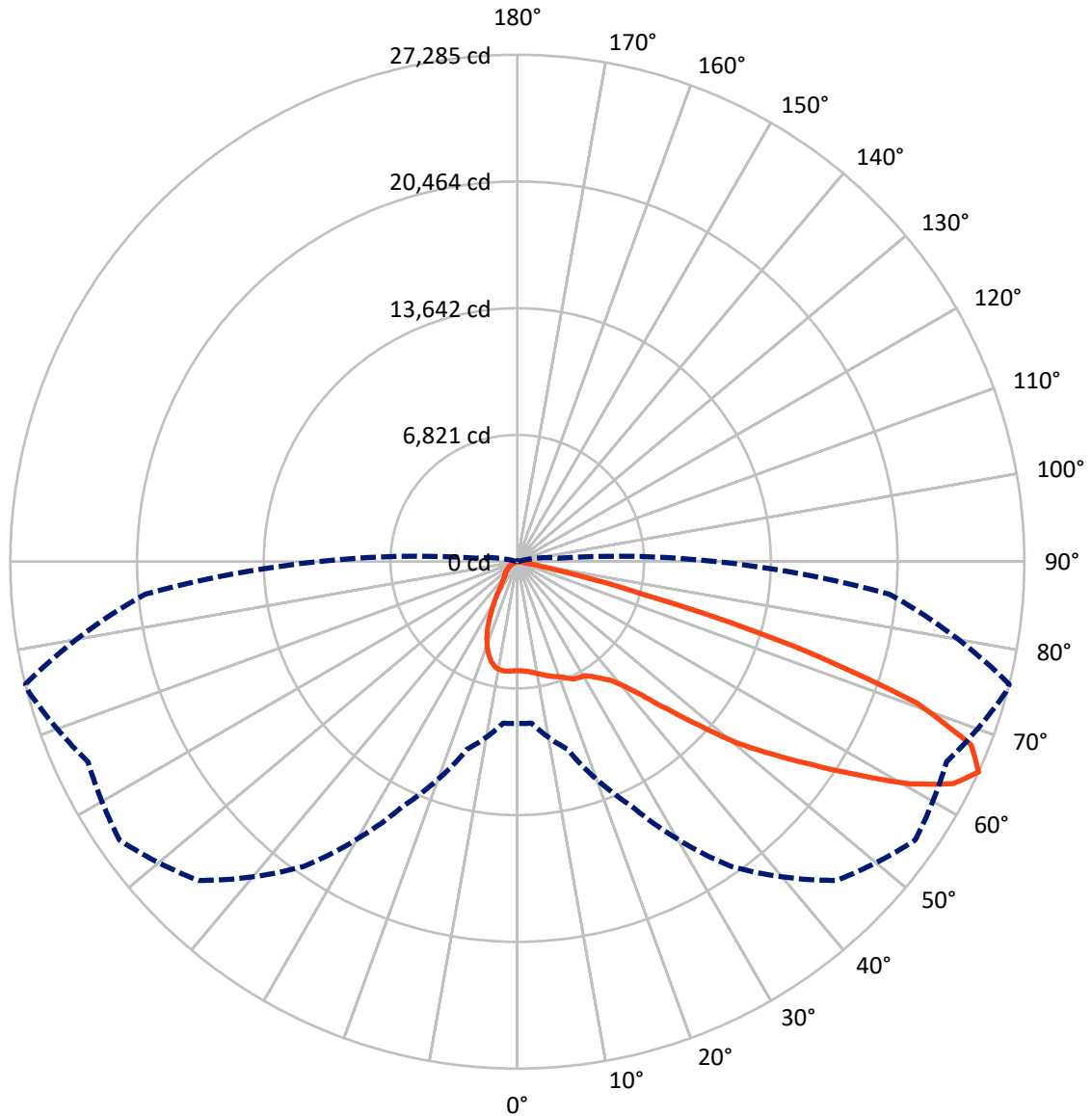
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	2315.6	0.0	2315.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29747.4	0.0	29747.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	32063.0	0.0	32063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.2	1.5
10°-20°	1075.8	3.4
20°-30°	1733.6	5.4
30°-40°	3014.2	9.4
40°-50°	4980.9	15.5
50°-60°	7694.4	24.0
60°-70°	9396.0	29.3
70°-80°	3566.0	11.1
80°-90°	119.0	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°	32063.0	100.0
0°-180°	32063.0	100.0

Coefficient of Utilization



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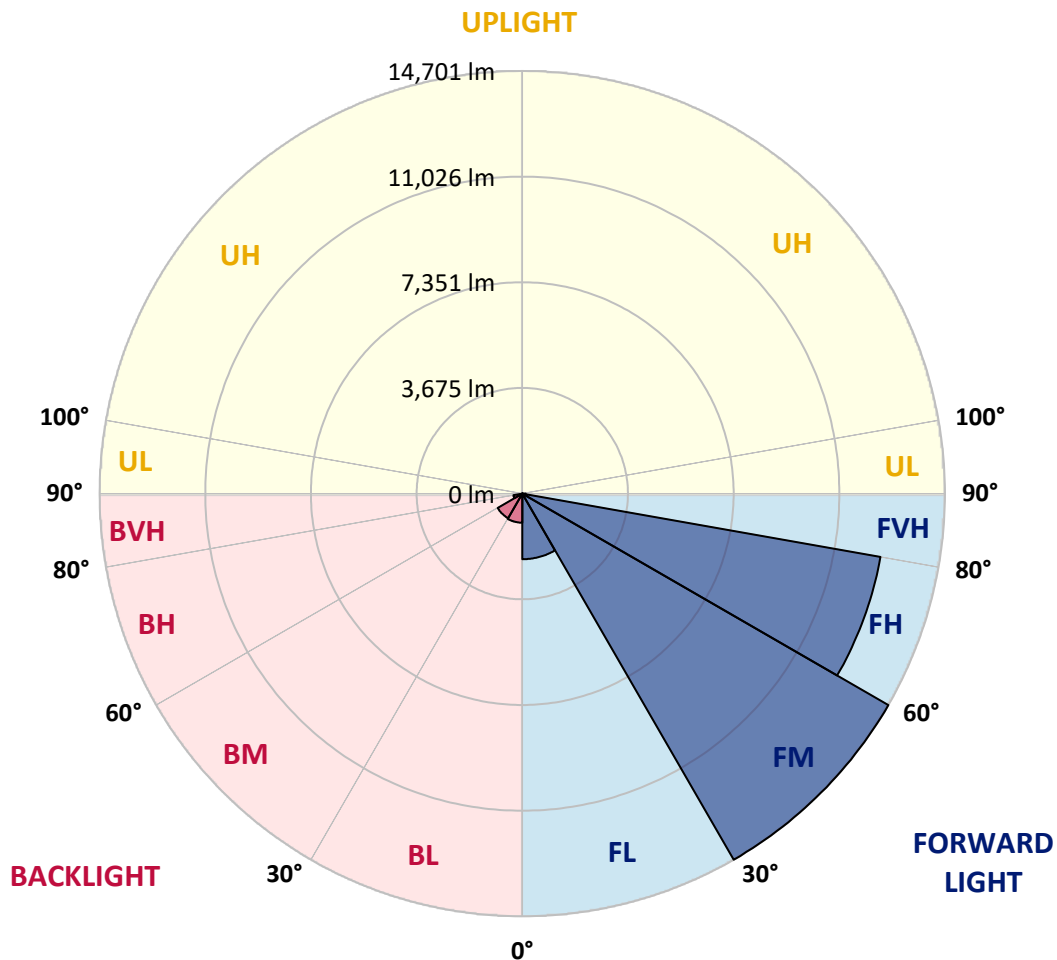
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2280.9	7.1			
FM (30°-60°)	14701.4	45.9			
FH (60°-80°)	12647.8	39.4			G5
FVH (80°-90°)	117.4	0.4			G2/225
BL (0°-30°)	1011.6	3.2	B3/2500		
BM (30°-60°)	988.1	3.1	B1/1000		
BH (60°-80°)	314.2	1.0	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5865.3	5865.3	5865.3	5865.3	5865.3	5865.3	5865.3	5865.3	5865.3	5865.3	5865.3
2.5°	5605.0	5607.3	5620.9	5654.8	5706.9	5749.9	5786.1	5845.0	5885.7	5890.2	5903.8
5°	5217.9	5190.8	5217.9	5306.2	5385.4	5505.4	5652.6	5799.7	5931.0	5940.0	6003.4
7.5°	4783.3	4805.9	4848.9	4939.5	5088.9	5272.2	5485.0	5747.6	5996.6	6019.3	6143.8
10°	4341.9	4391.7	4461.8	4599.9	4808.2	5045.9	5335.6	5711.4	6100.8	6132.5	6347.5
12.5°	3934.4	3957.0	4043.0	4228.7	4486.7	4821.8	5222.4	5691.0	6216.2	6254.7	6564.8
15°	3622.0	3651.4	3726.1	3893.6	4181.1	4611.2	5129.6	5684.2	6329.4	6383.7	6782.2
17.5°	3563.1	3581.2	3612.9	3726.1	3977.4	4443.7	5045.9	5682.0	6438.1	6503.7	6983.6
20°	3805.3	3789.5	3757.8	3746.5	3884.6	4314.7	4984.8	5700.1	6542.2	6616.9	7196.4
22.5°	4412.0	4432.4	4246.8	4027.2	3981.9	4294.3	4975.7	5786.1	6707.5	6795.7	7434.1
25°	5700.1	5543.9	5254.1	4728.9	4332.8	4418.8	5077.6	5989.9	6899.9	6997.2	7649.2
27.5°	7124.0	7076.4	6626.0	5761.2	5023.2	4681.4	5258.7	6146.0	6963.3	7062.9	7771.4
30°	8523.0	8579.6	8063.4	7108.1	6026.1	5168.1	5428.4	6204.9	7019.9	7124.0	7927.6
32.5°	9820.1	9888.0	9435.3	8489.0	7207.7	6010.2	5720.5	6433.5	7257.5	7363.9	8187.9
35°	10841.0	10850.1	10508.3	9754.4	8498.1	7033.4	6352.0	6834.2	7579.0	7703.5	8464.1
37.5°	11778.2	11764.6	11364.0	10714.3	9573.3	8049.9	7146.6	7296.0	7945.7	8074.8	8862.5
40°	12473.2	12482.3	12353.2	11742.0	10576.2	8989.3	7775.9	7728.4	8561.5	8762.9	9442.1
42.5°	12937.3	13021.0	13084.4	12774.3	11837.1	10146.1	8742.6	8654.3	9629.9	9797.5	10261.5
45°	13313.0	13462.5	13779.4	13763.5	13048.2	11565.4	10069.1	9888.0	11144.4	11323.2	11305.1
47.5°	13587.0	13738.6	14263.8	14580.7	14186.8	12941.8	11737.5	11581.3	12953.1	13147.8	12457.4
50°	13727.3	13908.4	14578.5	15191.9	15076.5	14268.3	13639.0	13648.1	15137.6	15325.5	13793.0
52.5°	13399.1	13634.5	14746.0	15850.7	16074.8	15538.3	15420.6	15719.4	17082.2	17242.9	14999.5
55°	12351.0	12647.5	14517.4	16412.1	17231.6	17036.9	17444.4	17899.4	19207.8	19312.0	16237.8
57.5°	11687.7	12002.3	13842.8	16889.8	18621.5	18920.3	19565.5	19898.3	21401.4	21666.2	17659.4
60°	11128.5	11375.3	13288.1	16991.6	20034.1	21224.8	21851.9	22196.0	24108.8	24280.9	19223.7
62.5°	10198.1	10481.1	12351.0	16280.8	20744.9	23069.8	24369.1	24215.2	26202.8	26322.7	20183.5
65°	8701.8	8726.7	10449.4	14494.7	20011.4	24267.3	26137.1	25492.0	27203.3	27284.8	20108.8
67.5°	6494.7	6734.6	8038.5	11393.4	16903.3	23244.1	26709.8	25525.9	26571.8	26345.4	18512.9
70°	4183.4	4366.8	5448.8	7900.4	12188.0	19398.0	24810.6	23776.0	23321.0	22818.5	15153.5
72.5°	1931.0	2166.4	3237.1	4513.9	7228.1	13817.9	20140.5	19316.5	16785.6	15545.1	9632.2
75°	842.1	901.0	1598.2	2381.5	3388.8	7307.3	13279.1	11991.0	7581.3	6924.8	3855.1
77.5°	513.9	552.4	837.6	1276.7	1331.1	2784.4	7153.4	5231.5	2343.0	2066.8	1045.8
80°	348.6	391.6	608.9	667.8	455.0	776.5	2684.8	1396.7	473.1	452.7	224.1
82.5°	169.8	215.1	450.5	373.5	196.9	249.0	781.0	298.8	138.1	129.0	79.2
85°	24.9	43.0	253.5	244.5	88.3	58.9	138.1	74.7	47.5	45.3	36.2
87.5°	0.0	0.0	86.0	38.5	9.1	9.1	15.8	15.8	18.1	15.8	18.1
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°	5865.3	5865.3	5865.3	5865.3	5865.3	5865.3	5865.3	5865.3	5865.3	5865.3	5865.3
2.5°	5910.6	5921.9	5878.9	5817.8	5752.2	5686.5	5593.7	5509.9	5460.1	5489.6	5417.1
5°	6017.0	6008.0	5894.8	5709.1	5462.4	5165.9	4871.6	4620.3	4538.8	4416.6	4403.0
7.5°	6164.2	6139.3	5899.3	5473.7	4916.8	4360.0	3816.7	3456.7	3250.7	3076.4	3080.9
10°	6370.2	6297.7	5847.2	5059.5	4142.6	3302.8	2610.1	2134.7	1928.7	1863.1	1811.0
12.5°	6583.0	6442.6	5702.4	4500.3	3225.8	2256.9	1586.9	1297.1	1170.4	1129.6	1125.1
15°	6773.1	6551.3	5448.8	3828.0	2345.2	1442.0	1082.1	987.0	971.1	973.4	971.1
17.5°	6961.0	6637.3	5097.9	3114.9	1593.7	1034.5	930.4	907.8	914.6	923.6	921.3
20°	7117.2	6655.4	4649.7	2376.9	1127.3	907.8	873.8	869.3	876.1	882.9	882.9
22.5°	7287.0	6669.0	4117.7	1645.7	921.3	844.4	826.3	826.3	835.3	844.4	846.6
25°	7413.7	6594.3	3481.6	1181.7	812.7	783.3	774.2	776.5	785.5	790.0	787.8
27.5°	7434.1	6383.7	2807.0	905.5	738.0	708.6	699.5	708.6	697.2	704.0	699.5
30°	7452.2	6116.6	2123.4	762.9	670.1	624.8	611.2	597.6	588.6	577.3	575.0
32.5°	7508.8	5802.0	1550.7	685.9	606.7	556.9	525.2	486.7	457.3	448.2	446.0
35°	7533.7	5423.9	1138.7	624.8	550.1	495.8	439.2	384.8	341.8	326.0	337.3
37.5°	7628.8	5057.2	882.9	579.5	500.3	432.4	359.9	292.0	251.3	242.2	246.7
40°	7823.5	4658.8	740.2	541.0	457.3	373.5	285.2	219.6	192.4	183.4	181.1
42.5°	8135.9	4262.6	658.7	504.8	414.3	314.7	224.1	172.0	149.4	142.6	142.6
45°	8516.2	3882.3	602.2	466.3	369.0	253.5	176.6	138.1	124.5	120.0	120.0
47.5°	9016.5	3549.5	554.6	427.8	319.2	201.5	142.6	120.0	110.9	113.2	115.5
50°	9523.5	3302.8	502.5	384.8	262.6	165.3	122.2	106.4	104.1	106.4	106.4
52.5°	9906.1	3157.9	432.4	326.0	206.0	138.1	108.7	99.6	97.3	92.8	92.8
55°	10422.3	3126.2	344.1	264.9	163.0	115.5	97.3	90.5	83.8	79.2	77.0
57.5°	11085.5	3162.4	264.9	206.0	126.8	95.1	86.0	74.7	65.6	56.6	56.6
60°	11497.5	3080.9	206.0	158.5	92.8	77.0	65.6	54.3	43.0	36.2	34.0
62.5°	11366.2	2736.9	163.0	117.7	65.6	56.6	43.0	36.2	24.9	18.1	15.8
65°	10689.4	2209.4	131.3	81.5	47.5	34.0	22.6	22.6	11.3	2.3	0.0
67.5°	9356.0	1636.7	104.1	54.3	27.2	15.8	11.3	6.8	0.0	0.0	0.0
70°	7615.2	1181.7	81.5	34.0	15.8	11.3	4.5	2.3	0.0	0.0	0.0
72.5°	4835.3	676.9	63.4	20.4	11.3	4.5	0.0	0.0	0.0	0.0	0.0
75°	1869.8	264.9	43.0	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	529.7	124.5	24.9	6.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	138.1	54.3	13.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	65.6	22.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	38.5	9.1	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	2.3	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)