

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: P454215

Luminaire Tested: **GALN-SA5B-740-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454215
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-SA5B-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 800mA 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: 22310 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

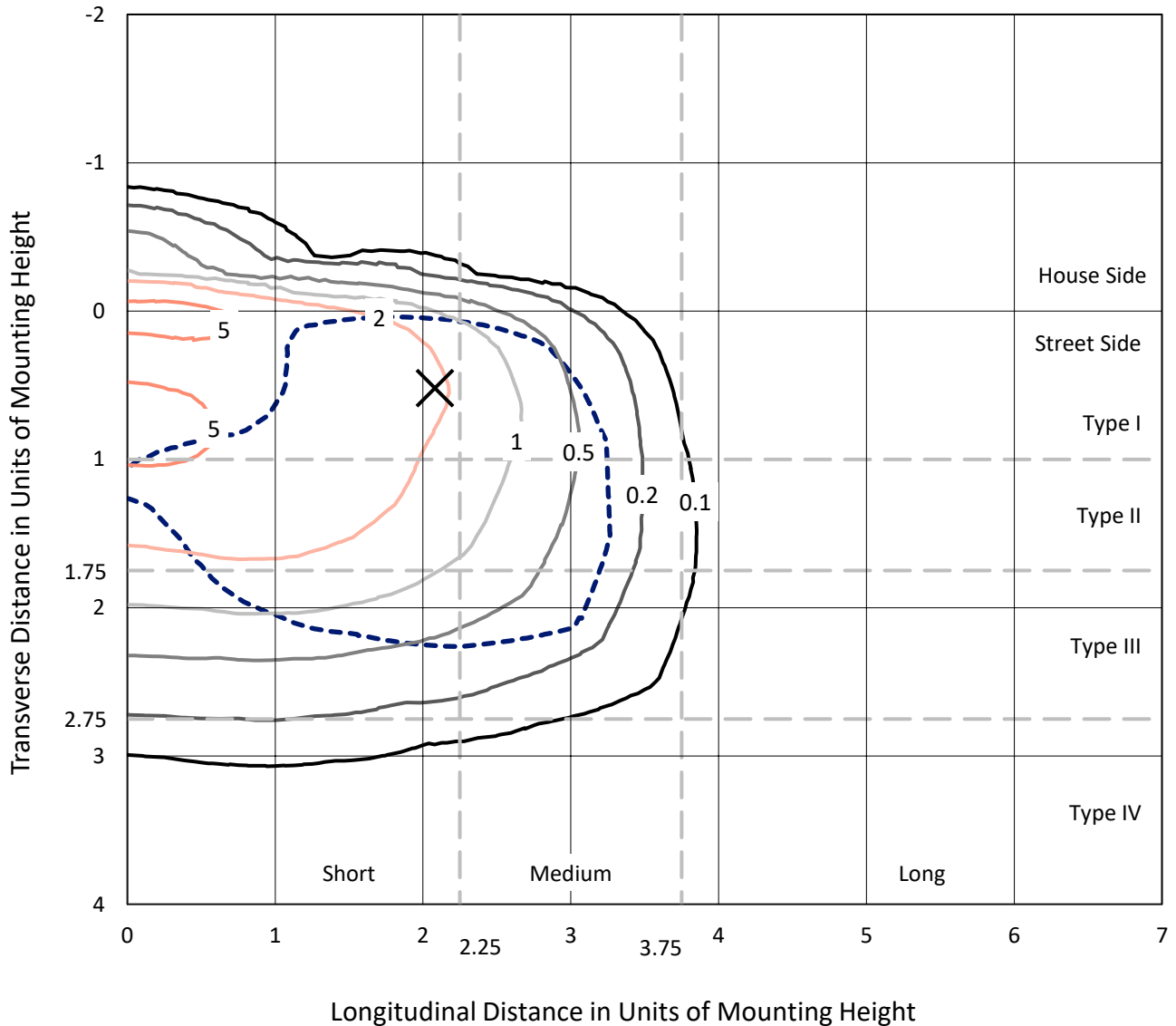
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

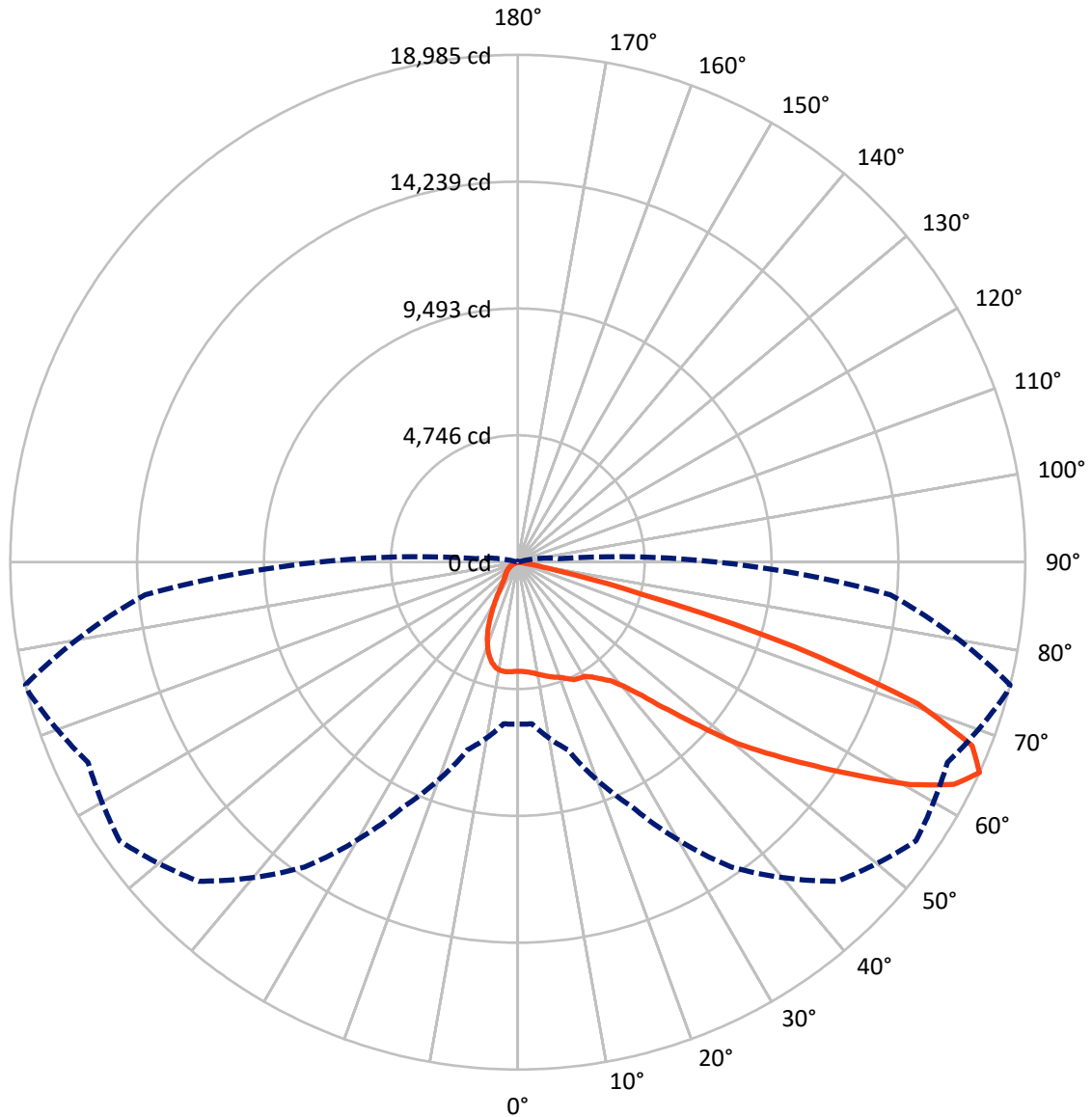
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	1611.2	0.0	1611.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	20698.8	0.0	20698.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	22310.0	0.0	22310.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.2	1.5
10°-20°	748.6	3.4
20°-30°	1206.2	5.4
30°-40°	2097.4	9.4
40°-50°	3465.8	15.5
50°-60°	5353.9	24.0
60°-70°	6537.9	29.3
70°-80°	2481.3	11.1
80°-90°	82.8	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°	22310.0	100.0
0°-180°	22310.0	100.0

Coefficient of Utilization



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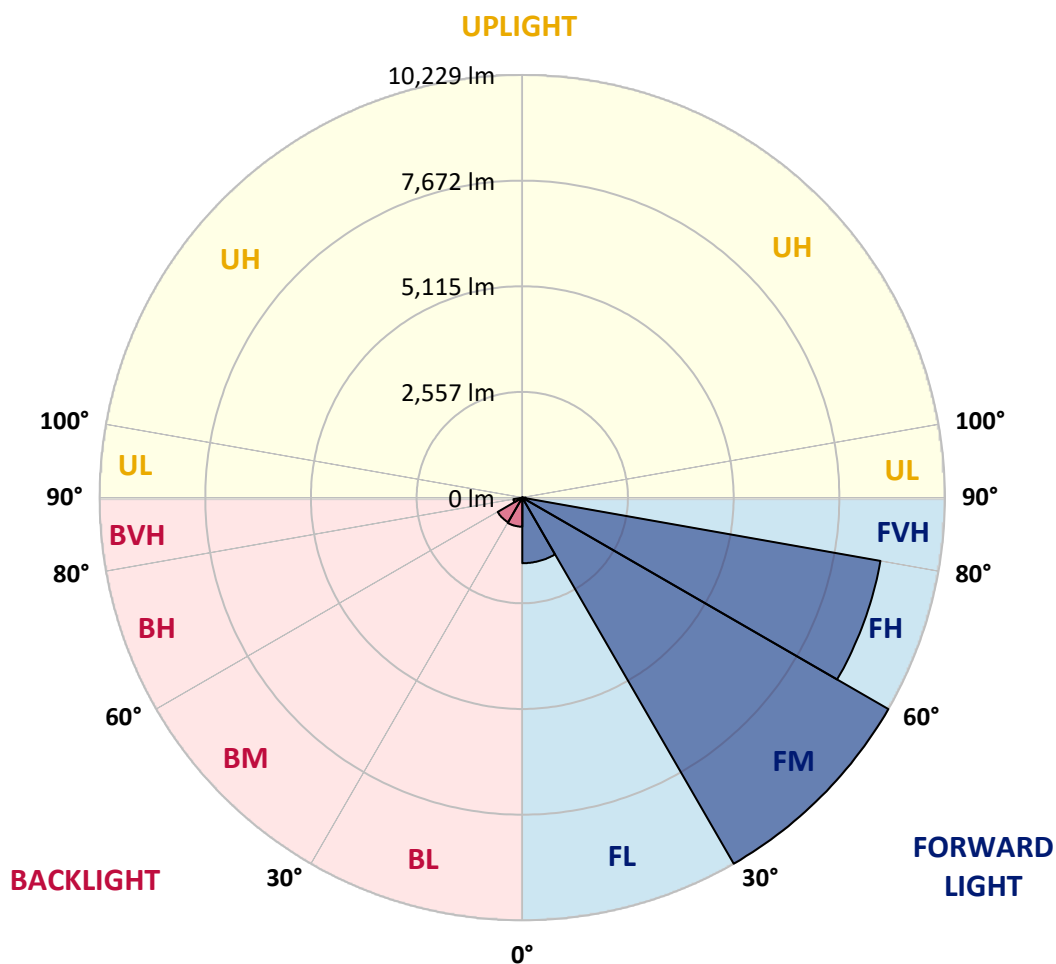
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1587.1	7.1			
FM	(30°-60°)	10229.5	45.9			
FH	(60°-80°)	8800.5	39.4			G4/12000
FVH	(80°-90°)	81.7	0.4			G1/100
BL	(0°-30°)	703.9	3.2	B2/1000		
BM	(30°-60°)	687.6	3.1	B1/1000		
BH	(60°-80°)	218.6	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	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°	4081.2	4081.2	4081.2	4081.2	4081.2	4081.2	4081.2	4081.2	4081.2	4081.2	4081.2
2.5°	3900.1	3901.6	3911.1	3934.7	3971.0	4000.9	4026.1	4067.0	4095.4	4098.5	4108.0
5°	3630.7	3611.8	3630.7	3692.1	3747.3	3830.8	3933.1	4035.5	4126.9	4133.2	4177.3
7.5°	3328.3	3344.0	3374.0	3437.0	3540.9	3668.5	3816.6	3999.3	4172.6	4188.3	4275.0
10°	3021.1	3055.8	3104.6	3200.7	3345.6	3511.0	3712.6	3974.1	4245.0	4267.1	4416.7
12.5°	2737.6	2753.4	2813.2	2942.4	3121.9	3355.1	3633.9	3959.9	4325.4	4352.1	4567.9
15°	2520.2	2540.7	2592.7	2709.3	2909.3	3208.6	3569.3	3955.2	4404.1	4441.9	4719.1
17.5°	2479.3	2491.9	2513.9	2592.7	2767.5	3092.0	3511.0	3953.6	4479.7	4525.4	4859.3
20°	2647.8	2636.8	2614.7	2606.9	2703.0	3002.2	3468.5	3966.2	4552.2	4604.2	5007.4
22.5°	3070.0	3084.1	2955.0	2802.2	2770.7	2988.1	3462.2	4026.1	4667.2	4728.6	5172.8
25°	3966.2	3857.5	3655.9	3290.5	3014.8	3074.7	3533.1	4167.8	4801.1	4868.8	5322.4
27.5°	4957.0	4923.9	4610.5	4008.8	3495.3	3257.4	3659.1	4276.5	4845.2	4914.5	5407.5
30°	5930.4	5969.8	5610.7	4946.0	4193.0	3596.1	3777.2	4317.5	4884.5	4957.0	5516.2
32.5°	6833.0	6880.3	6565.2	5906.8	5015.3	4182.0	3980.4	4476.6	5049.9	5124.0	5697.3
35°	7543.4	7549.7	7311.8	6787.3	5913.1	4894.0	4419.9	4755.4	5273.6	5360.2	5889.5
37.5°	8195.5	8186.0	7907.2	7455.2	6661.3	5601.2	4972.7	5076.7	5528.8	5618.6	6166.7
40°	8679.1	8685.4	8595.6	8170.3	7359.1	6254.9	5410.6	5377.6	5957.2	6097.4	6569.9
42.5°	9002.0	9060.3	9104.4	8888.6	8236.5	7059.8	6083.2	6021.8	6700.7	6817.2	7140.2
45°	9263.5	9367.4	9587.9	9576.9	9079.2	8047.4	7006.3	6880.3	7754.5	7878.9	7866.3
47.5°	9454.0	9559.6	9925.0	10145.5	9871.5	9005.1	8167.1	8058.5	9013.0	9148.5	8668.0
50°	9551.7	9677.7	10144.0	10570.8	10490.5	9928.2	9490.3	9496.6	10533.0	10663.8	9597.4
52.5°	9323.3	9487.1	10260.5	11029.2	11185.1	10811.8	10729.9	10937.8	11886.1	11997.9	10436.9
55°	8594.0	8800.4	10101.4	11419.8	11990.0	11854.6	12138.1	12454.7	13365.1	13437.6	11298.5
57.5°	8132.5	8351.4	9632.0	11752.2	12957.2	13165.1	13614.0	13845.6	14891.5	15075.8	12287.7
60°	7743.4	7915.1	9246.1	11823.1	13940.1	14768.6	15204.9	15444.3	16775.3	16895.0	13376.2
62.5°	7096.0	7292.9	8594.0	11328.5	14434.7	16052.3	16956.5	16849.4	18232.3	18315.8	14044.0
65°	6054.9	6072.2	7270.9	10085.7	13924.3	16885.6	18186.7	17737.8	18928.6	18985.3	13992.0
67.5°	4519.1	4686.1	5593.4	7927.7	11761.6	16173.6	18585.2	17761.4	18489.1	18331.6	12881.6
70°	2910.9	3038.5	3791.4	5497.3	8480.6	13497.5	17263.6	16543.8	16227.2	15877.5	10544.0
72.5°	1343.6	1507.4	2252.5	3140.8	5029.5	9614.7	14014.1	13440.7	11679.7	10816.5	6702.3
75°	586.0	626.9	1112.1	1657.1	2358.0	5084.6	9239.8	8343.6	5275.2	4818.4	2682.5
77.5°	357.6	384.3	582.8	888.4	926.2	1937.4	4977.5	3640.2	1630.3	1438.1	727.7
80°	242.6	272.5	423.7	464.7	316.6	540.3	1868.1	971.9	329.2	315.0	155.9
82.5°	118.1	149.6	313.5	259.9	137.0	173.3	543.4	207.9	96.1	89.8	55.1
85°	17.3	29.9	176.4	170.1	61.4	41.0	96.1	52.0	33.1	31.5	25.2
87.5°	0.0	0.0	59.9	26.8	6.3	6.3	11.0	11.0	12.6	11.0	12.6
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°	4081.2	4081.2	4081.2	4081.2	4081.2	4081.2	4081.2	4081.2	4081.2	4081.2	4081.2
2.5°	4112.7	4120.6	4090.7	4048.1	4002.5	3956.8	3892.2	3833.9	3799.3	3819.7	3769.3
5°	4186.7	4180.4	4101.7	3972.5	3800.8	3594.5	3389.7	3214.9	3158.2	3073.1	3063.7
7.5°	4289.1	4271.8	4104.8	3808.7	3421.2	3033.7	2655.7	2405.3	2261.9	2140.6	2143.8
10°	4432.5	4382.1	4068.6	3520.5	2882.5	2298.1	1816.1	1485.4	1342.0	1296.3	1260.1
12.5°	4580.5	4482.9	3967.8	3131.4	2244.6	1570.4	1104.2	902.6	814.4	786.0	782.8
15°	4712.8	4558.5	3791.4	2663.6	1631.9	1003.4	752.9	686.8	675.7	677.3	675.7
17.5°	4843.6	4618.3	3547.2	2167.4	1108.9	719.8	647.4	631.6	636.4	642.7	641.1
20°	4952.3	4630.9	3235.4	1653.9	784.4	631.6	608.0	604.9	609.6	614.3	614.3
22.5°	5070.4	4640.4	2865.2	1145.1	641.1	587.5	574.9	574.9	581.2	587.5	589.1
25°	5158.6	4588.4	2422.6	822.2	565.5	545.0	538.7	540.3	546.6	549.7	548.2
27.5°	5172.8	4441.9	1953.2	630.1	513.5	493.0	486.7	493.0	485.1	489.9	486.7
30°	5185.4	4256.1	1477.5	530.8	466.2	434.7	425.3	415.8	409.5	401.7	400.1
32.5°	5224.8	4037.1	1079.0	477.3	422.1	387.5	365.4	338.7	318.2	311.9	310.3
35°	5242.1	3774.1	792.3	434.7	382.8	345.0	305.6	267.8	237.8	226.8	234.7
37.5°	5308.3	3518.9	614.3	403.2	348.1	300.9	250.4	203.2	174.8	168.5	171.7
40°	5443.7	3241.7	515.1	376.5	318.2	259.9	198.5	152.8	133.9	127.6	126.0
42.5°	5661.1	2966.0	458.4	351.3	288.3	218.9	155.9	119.7	104.0	99.2	99.2
45°	5925.7	2701.4	419.0	324.5	256.7	176.4	122.9	96.1	86.6	83.5	83.5
47.5°	6273.8	2469.8	385.9	297.7	222.1	140.2	99.2	83.5	77.2	78.8	80.3
50°	6626.7	2298.1	349.7	267.8	182.7	115.0	85.1	74.0	72.5	74.0	74.0
52.5°	6892.9	2197.3	300.9	226.8	143.3	96.1	75.6	69.3	67.7	64.6	64.6
55°	7252.0	2175.3	239.4	184.3	113.4	80.3	67.7	63.0	58.3	55.1	53.6
57.5°	7713.5	2200.5	184.3	143.3	88.2	66.2	59.9	52.0	45.7	39.4	39.4
60°	8000.2	2143.8	143.3	110.3	64.6	53.6	45.7	37.8	29.9	25.2	23.6
62.5°	7908.8	1904.4	113.4	81.9	45.7	39.4	29.9	25.2	17.3	12.6	11.0
65°	7437.9	1537.3	91.4	56.7	33.1	23.6	15.8	15.8	7.9	1.6	0.0
67.5°	6510.1	1138.8	72.5	37.8	18.9	11.0	7.9	4.7	0.0	0.0	0.0
70°	5298.8	822.2	56.7	23.6	11.0	7.9	3.2	1.6	0.0	0.0	0.0
72.5°	3364.5	471.0	44.1	14.2	7.9	3.2	0.0	0.0	0.0	0.0	0.0
75°	1301.1	184.3	29.9	9.5	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	368.6	86.6	17.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	96.1	37.8	9.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.7	15.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.8	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.6	1.6	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)