

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: P454171

Luminaire Tested: **GALN-SA5B-730-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21467 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

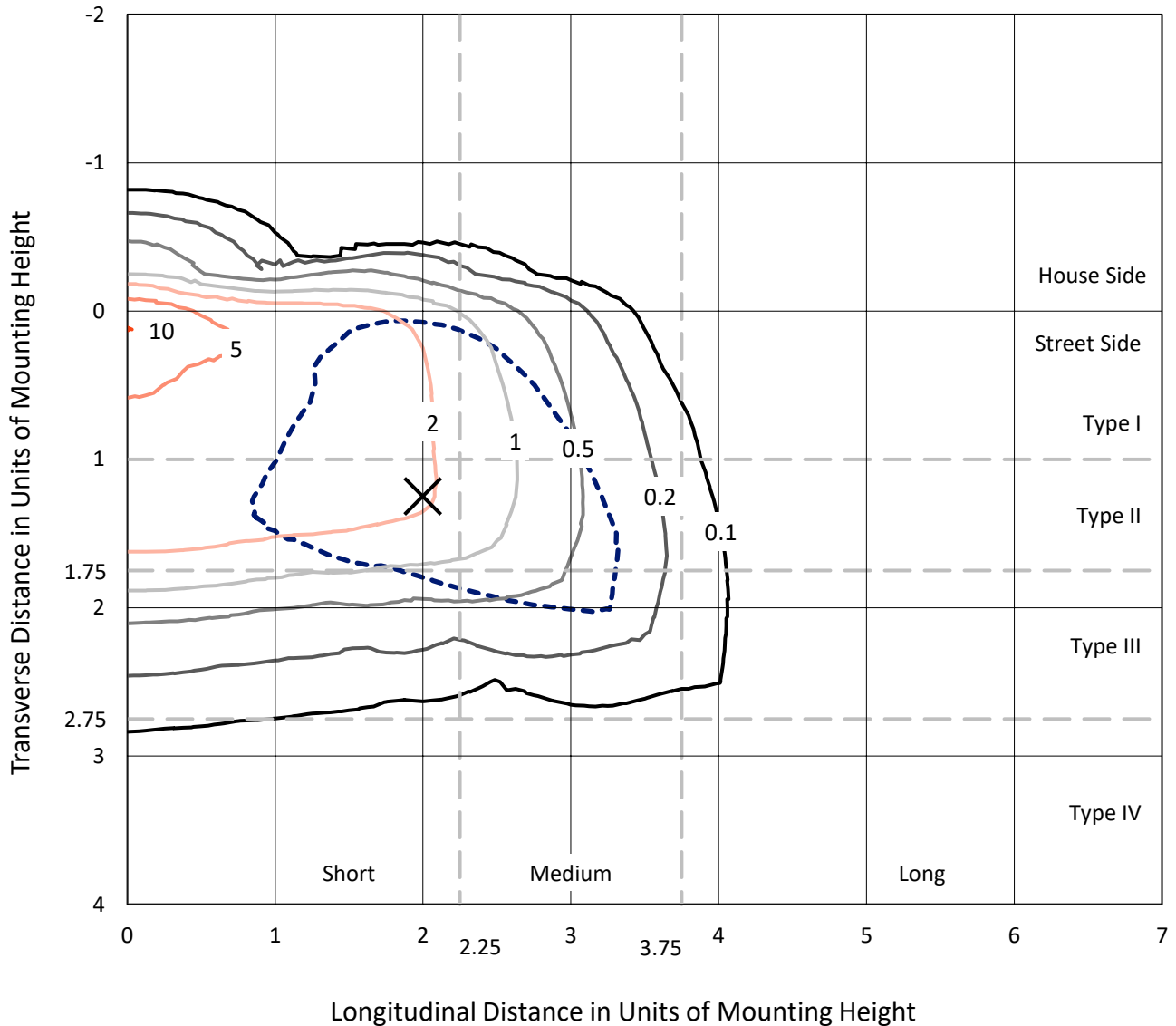
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

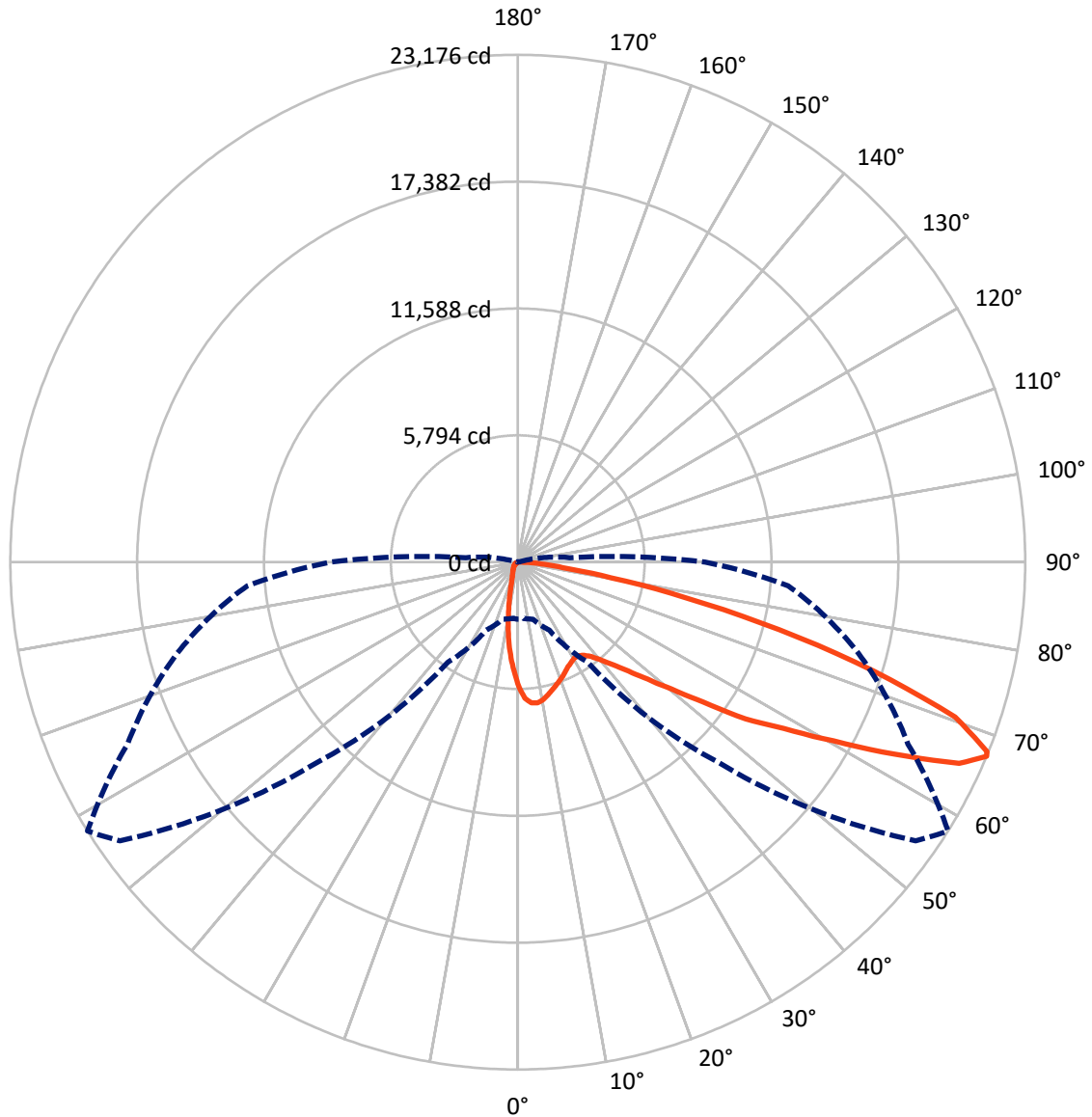
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1549.2	0.0	1549.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	19917.8	0.0	19917.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	21467.0	0.0	21467.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	461.8	2.2
10°-20°	997.3	4.6
20°-30°	1351.5	6.3
30°-40°	1874.4	8.7
40°-50°	2989.5	13.9
50°-60°	5167.6	24.1
60°-70°	5903.0	27.5
70°-80°	2461.0	11.5
80°-90°	260.9	1.2
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°	21467.0	100.0
0°-180°	21467.0	100.0

Coefficient of Utilization



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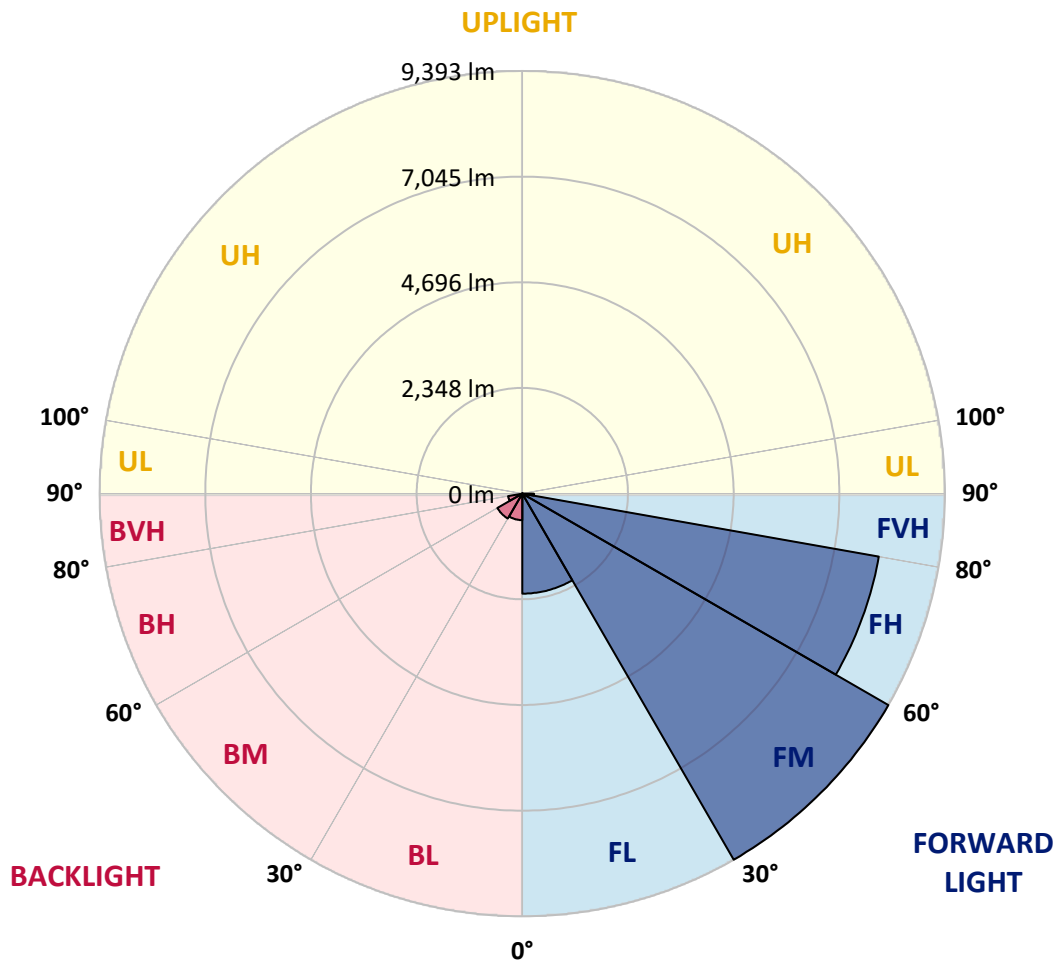
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2222.4	10.4			
FM (30°-60°)	9392.7	43.8			
FH (60°-80°)	8043.7	37.5			G4/12000
FVH (80°-90°)	259.0	1.2			G3/500
BL (0°-30°)	588.3	2.7	B2/1000		
BM (30°-60°)	638.8	3.0	B1/1000		
BH (60°-80°)	320.3	1.5	B1/500		G1/500
BVH (80°-90°)	1.9	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5690.7	5690.7	5690.7	5690.7	5690.7	5690.7	5690.7	5690.7	5690.7	5690.7	5690.7
2.5°	6604.5	6614.5	6577.2	6547.1	6469.6	6386.4	6276.0	6217.2	6116.8	5943.2	5751.0
5°	6759.4	6772.3	6766.6	6759.4	6729.3	6649.0	6508.4	6456.7	6309.0	6026.4	5679.2
7.5°	6415.1	6462.5	6468.2	6524.2	6577.2	6584.4	6531.3	6492.6	6356.3	6024.9	5551.6
10°	5959.0	5990.5	6036.4	6101.0	6228.6	6334.8	6386.4	6380.7	6301.8	5980.5	5402.4
12.5°	5498.5	5515.7	5586.0	5696.4	5852.8	6033.6	6171.3	6198.5	6200.0	5927.4	5277.6
15°	5102.6	5095.4	5149.9	5277.6	5497.0	5723.7	5970.4	6013.5	6082.3	5875.8	5161.4
17.5°	4764.0	4801.3	4809.9	4950.5	5152.8	5446.8	5761.0	5837.0	5974.7	5831.3	5065.3
20°	4554.6	4574.7	4593.3	4672.2	4854.4	5164.2	5564.5	5669.2	5874.3	5791.1	4957.7
22.5°	4492.9	4505.8	4490.0	4514.4	4643.5	4918.9	5350.7	5489.9	5778.2	5753.8	4870.2
25°	4540.2	4553.1	4515.8	4487.1	4531.6	4719.5	5144.2	5313.4	5700.7	5746.7	4804.2
27.5°	4655.0	4679.4	4627.7	4576.1	4550.3	4612.0	4982.1	5178.6	5647.7	5781.1	4774.1
30°	4834.3	4848.6	4809.9	4746.8	4688.0	4626.3	4897.4	5085.3	5633.3	5861.4	4771.2
32.5°	5029.4	5059.5	5038.0	4996.4	4920.4	4774.1	4921.8	5088.2	5667.8	5977.6	4807.0
35°	5270.4	5304.8	5324.9	5316.3	5218.8	5036.6	5076.7	5217.3	5759.6	6191.3	4904.6
37.5°	5507.1	5537.2	5650.5	5689.3	5603.2	5431.1	5378.0	5471.2	5961.8	6471.1	5081.0
40°	5778.2	5818.4	5977.6	6125.4	6083.8	5903.0	5805.5	5882.9	6271.7	6892.8	5415.3
42.5°	6037.9	6109.6	6352.0	6613.1	6651.8	6449.6	6385.0	6410.8	6730.7	7499.6	5881.5
45°	6406.5	6473.9	6786.7	7141.0	7323.2	7165.4	7099.4	7095.1	7360.5	8353.2	6637.5
47.5°	6938.7	6999.0	7367.6	7717.7	8041.9	8063.4	7938.6	7981.6	8152.3	9351.6	7564.2
50°	7591.4	7733.4	7975.9	8340.2	8773.5	9123.5	9162.2	9104.8	9251.2	10507.8	8677.4
52.5°	8539.6	8594.2	8816.5	9116.3	9624.1	10218.0	10678.5	10599.6	10553.7	11609.5	9802.0
55°	9246.9	9320.0	9665.7	10077.4	10821.9	11605.2	12603.6	12630.9	12051.3	12668.2	10902.3
57.5°	9033.1	9145.0	9668.6	10496.3	12133.1	13564.7	14307.8	14326.5	13437.1	13696.7	12144.6
60°	7935.7	7988.8	8739.0	9843.6	12245.0	15687.8	16725.0	16574.3	14847.2	14847.2	13242.0
62.5°	5627.6	5710.8	6319.0	7944.3	11058.6	16425.1	19619.8	19308.5	16789.5	15947.5	13896.1
65°	3596.3	3516.0	3919.1	5015.0	8238.4	15336.4	22140.2	22158.9	18617.1	16387.9	13538.9
67°	2605.1	2573.5	2689.7	3428.5	5586.0	12891.9	22193.3	23176.0	19667.1	16109.6	12397.0
67.5°	2382.7	2407.1	2491.7	3092.8	5075.3	11731.4	21952.3	23115.7	19903.8	15941.7	11983.9
70°	1806.0	1764.4	1856.3	2187.6	3042.6	7400.6	18883.9	21200.6	19609.8	14276.3	9575.4
72.5°	1328.4	1324.1	1451.7	1788.8	2342.6	3942.0	14175.8	16999.0	16020.6	10870.7	6029.2
75°	896.6	936.7	1140.4	1494.8	2123.1	2556.3	9664.3	12332.5	11121.8	6172.7	2464.5
77.5°	510.7	513.6	734.5	1200.7	1906.5	2057.1	5726.6	7856.8	5887.2	2052.8	731.6
80°	220.9	242.4	364.4	872.2	1580.8	1821.8	3283.6	4317.9	2381.3	434.7	236.7
82.5°	81.8	96.1	160.7	536.5	1153.3	1500.5	1983.9	2061.4	807.6	153.5	147.8
85°	0.0	2.9	58.8	251.0	601.1	669.9	1325.5	1222.2	357.2	73.2	96.1
87.5°	0.0	0.0	0.0	25.8	78.9	249.6	411.7	459.0	86.1	25.8	23.0
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°	5690.7	5690.7	5690.7	5690.7	5690.7	5690.7	5690.7	5690.7	5690.7	5690.7	5690.7
2.5°	5647.7	5554.4	5320.6	5086.8	4913.2	4768.3	4550.3	4431.2	4368.1	4274.8	4280.6
5°	5505.7	5316.3	4904.6	4478.5	4134.3	3798.6	3396.9	3234.8	3098.5	3021.1	2969.4
7.5°	5294.8	5015.0	4405.4	3837.3	3308.0	2721.3	2280.9	1986.8	1788.8	1715.7	1645.4
10°	5063.8	4692.3	3899.0	3111.5	2377.0	1771.6	1398.6	1129.0	1032.8	943.9	952.5
12.5°	4850.1	4398.2	3434.2	2455.9	1665.5	1126.1	877.9	767.5	735.9	725.9	725.9
15°	4675.1	4117.0	2935.0	1846.2	1141.9	809.1	702.9	672.8	661.3	658.4	658.4
17.5°	4488.6	3850.2	2484.6	1364.2	830.6	677.1	641.2	621.1	616.8	614.0	614.0
20°	4322.2	3582.0	2057.1	1015.6	671.4	609.7	586.7	573.8	569.5	566.6	568.1
22.5°	4164.4	3343.8	1655.4	767.5	591.0	555.2	532.2	519.3	510.7	503.5	504.9
25°	4023.8	3114.3	1331.2	628.3	532.2	500.6	477.7	459.0	440.4	431.8	430.4
27.5°	3924.8	2913.5	1037.2	537.9	479.1	444.7	416.0	393.1	368.7	355.8	352.9
30°	3843.1	2709.8	820.5	474.8	426.0	393.1	357.2	324.2	298.4	285.5	279.7
32.5°	3790.0	2516.1	647.0	423.2	381.6	341.4	301.2	268.3	239.6	226.7	223.8
35°	3781.4	2354.0	529.3	380.1	341.4	298.4	256.8	220.9	196.5	183.6	180.7
37.5°	3843.1	2229.2	443.3	345.7	308.4	261.1	215.2	182.2	160.7	150.6	149.2
40°	4008.0	2150.3	384.4	317.0	278.3	226.7	183.6	154.9	133.4	123.4	123.4
42.5°	4322.2	2153.2	345.7	289.8	248.2	193.7	156.4	129.1	110.5	101.9	99.0
45°	4812.8	2250.7	312.7	262.5	219.5	167.8	133.4	106.2	87.5	80.3	80.3
47.5°	5469.8	2444.4	284.0	235.3	193.7	143.5	113.3	86.1	70.3	63.1	63.1
50°	6329.1	2755.7	259.6	212.3	172.1	123.4	91.8	70.3	54.5	48.8	47.3
52.5°	7227.1	3140.1	231.0	192.2	147.8	104.7	74.6	54.5	41.6	37.3	35.9
55°	8218.3	3516.0	203.7	172.1	120.5	87.5	58.8	43.0	30.1	25.8	25.8
57.5°	9218.2	3884.7	170.7	143.5	94.7	64.6	45.9	31.6	20.1	15.8	15.8
60°	10064.5	4003.7	144.9	116.2	71.7	45.9	33.0	20.1	11.5	7.2	7.2
62.5°	10180.7	3602.1	121.9	88.9	51.6	31.6	17.2	11.5	4.3	2.9	2.9
65°	9549.5	2926.4	101.9	67.4	34.4	15.8	7.2	4.3	1.4	0.0	0.0
67°	8556.9	2372.7	83.2	50.2	24.4	10.0	4.3	1.4	0.0	0.0	0.0
67.5°	8302.9	2262.2	80.3	47.3	21.5	8.6	2.9	1.4	0.0	0.0	0.0
70°	6515.5	1694.2	57.4	28.7	12.9	5.7	0.0	0.0	0.0	0.0	0.0
72.5°	4049.6	958.3	41.6	17.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0
75°	1530.6	335.7	28.7	11.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	476.3	127.7	17.2	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	160.7	48.8	11.5	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	99.0	20.1	7.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	61.7	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	2.9	1.4	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)