

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: P650905

Luminaire Tested: **GALN-SA5C-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650905
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-SA5C-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1050mA 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: 24493.3 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

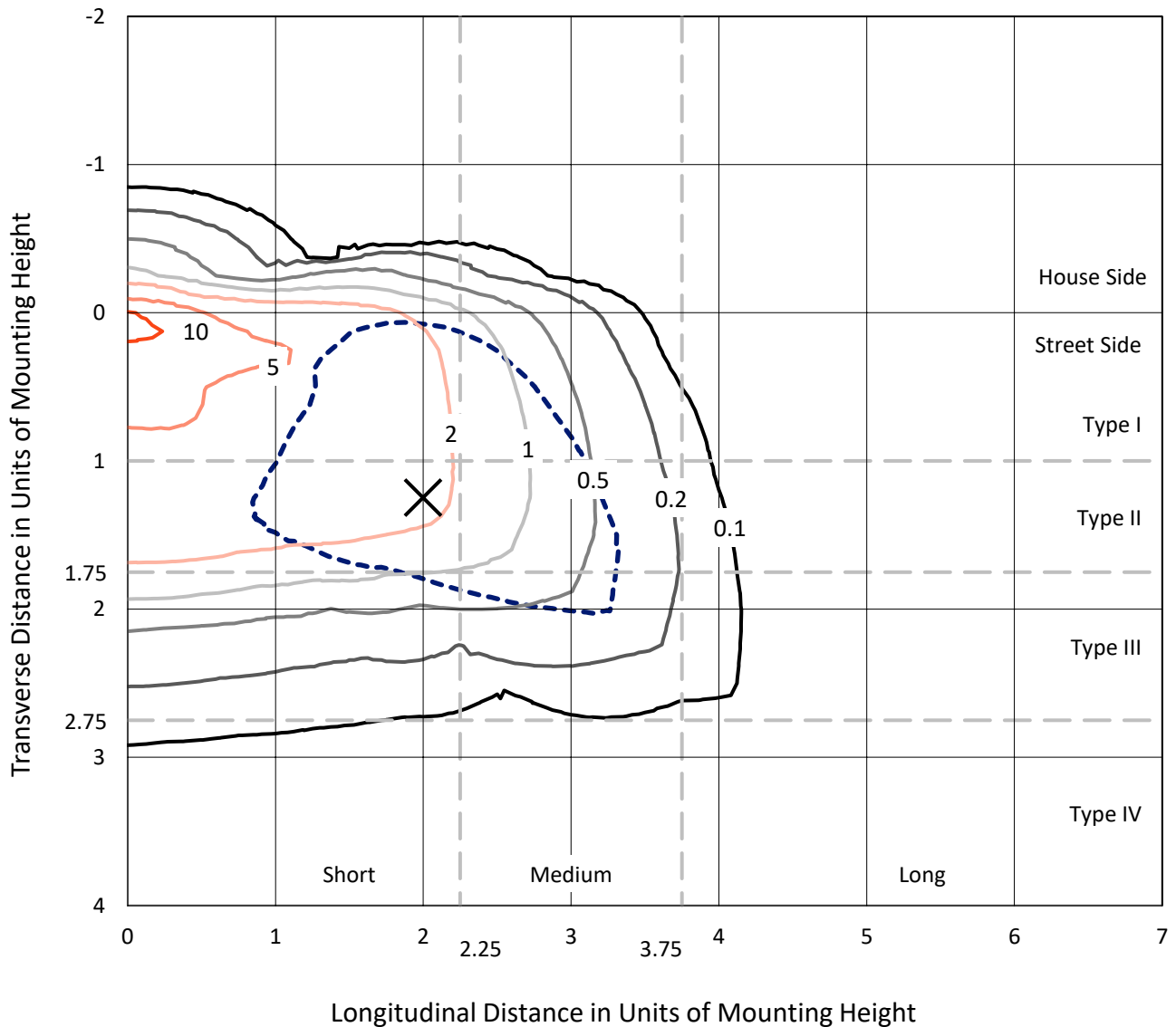
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

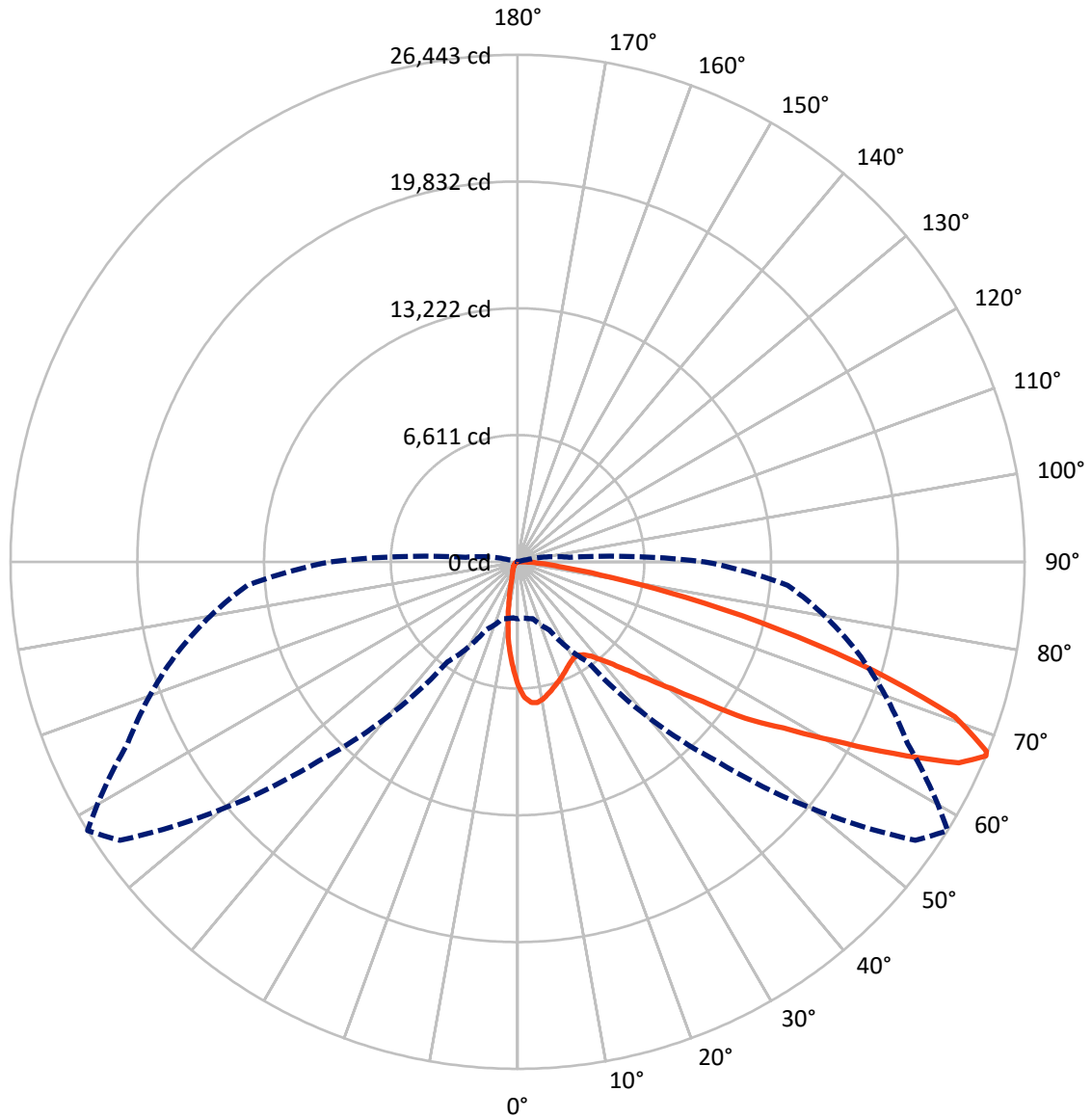
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	1767.6	0.0	1767.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22725.7	0.0	22725.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	24493.3	0.0	24493.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.9	2.2
10°-20°	1137.9	4.6
20°-30°	1542.0	6.3
30°-40°	2138.7	8.7
40°-50°	3410.9	13.9
50°-60°	5896.1	24.1
60°-70°	6735.2	27.5
70°-80°	2807.9	11.5
80°-90°	297.7	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°	24493.3	100.0
0°-180°	24493.3	100.0

Coefficient of Utilization



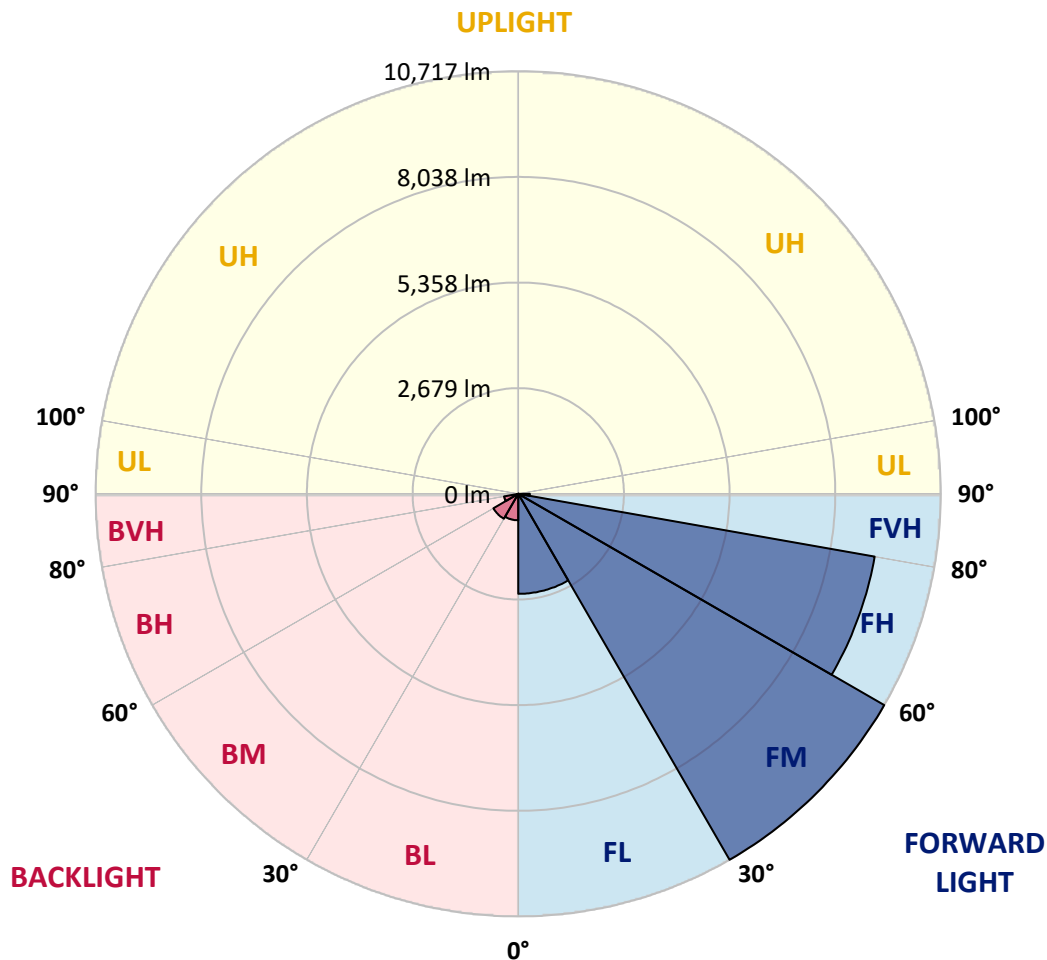
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2535.6	10.4			
FM (30°-60°)	10716.8	43.8			
FH (60°-80°)	9177.7	37.5			G4/12000
FVH (80°-90°)	295.6	1.2			G3/500
BL (0°-30°)	671.2	2.7	B2/1000		
BM (30°-60°)	728.8	3.0	B1/1000		
BH (60°-80°)	365.4	1.5	B1/500		G1/500
BVH (80°-90°)	2.2	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°	6492.9	6492.9	6492.9	6492.9	6492.9	6492.9	6492.9	6492.9	6492.9	6492.9	6492.9
2.5°	7535.5	7547.0	7504.4	7470.1	7381.7	7286.8	7160.7	7093.7	6979.0	6781.0	6561.7
5°	7712.3	7727.0	7720.5	7712.3	7677.9	7586.3	7425.9	7367.0	7198.4	6875.9	6479.8
7.5°	7319.5	7373.6	7380.0	7443.9	7504.4	7512.7	7452.1	7407.9	7252.4	6874.3	6334.2
10°	6799.0	6835.1	6887.4	6961.0	7106.7	7227.8	7286.8	7280.2	7190.2	6823.5	6163.9
12.5°	6273.6	6293.3	6373.4	6499.5	6677.9	6884.1	7041.3	7072.4	7074.0	6763.0	6021.6
15°	5821.9	5813.7	5875.9	6021.6	6272.0	6530.6	6812.1	6861.2	6939.8	6704.1	5889.0
17.5°	5435.6	5478.2	5487.9	5648.4	5879.2	6214.7	6573.2	6659.9	6817.0	6653.3	5779.4
20°	5196.6	5219.6	5240.9	5330.8	5538.7	5892.3	6348.9	6468.4	6702.4	6607.5	5656.6
22.5°	5126.2	5141.0	5123.0	5150.8	5298.1	5612.4	6105.1	6263.8	6592.8	6564.9	5556.7
25°	5180.3	5195.0	5152.5	5119.8	5170.5	5384.8	5869.3	6062.5	6504.4	6556.8	5481.5
27.5°	5311.3	5339.0	5280.1	5221.2	5191.7	5262.1	5684.4	5908.6	6443.8	6596.0	5447.1
30°	5515.8	5532.2	5487.9	5416.0	5348.8	5278.5	5587.9	5802.2	6427.5	6687.7	5443.8
32.5°	5738.4	5772.8	5748.2	5700.8	5614.0	5447.1	5615.7	5805.5	6466.8	6820.3	5484.7
35°	6013.4	6052.7	6075.6	6065.8	5954.4	5746.6	5792.4	5952.9	6571.5	7064.1	5596.0
37.5°	6283.4	6317.8	6447.1	6491.3	6393.1	6196.7	6136.1	6242.5	6802.3	7383.3	5797.3
40°	6592.8	6638.6	6820.3	6988.9	6941.4	6735.1	6623.9	6712.3	7155.8	7864.5	6178.7
42.5°	6889.1	6970.9	7247.5	7545.4	7589.5	7358.8	7285.2	7314.6	7679.6	8556.8	6710.6
45°	7309.6	7386.6	7743.4	8147.7	8355.6	8175.5	8100.3	8095.3	8398.1	9530.7	7573.2
47.5°	7916.9	7985.6	8406.3	8805.7	9175.6	9200.1	9057.7	9106.9	9301.6	10669.9	8630.5
50°	8661.6	8823.7	9100.3	9516.0	10010.3	10409.6	10453.9	10388.4	10555.3	11989.1	9900.7
52.5°	9743.5	9805.7	10059.4	10401.5	10980.9	11658.5	12183.9	12093.8	12041.5	13246.2	11183.9
55°	10550.4	10633.9	11028.4	11498.1	12347.6	13241.2	14380.4	14411.5	13750.3	14454.0	12439.2
57.5°	10306.5	10434.2	11031.6	11976.0	13843.5	15477.0	16324.8	16346.1	15331.3	15627.5	13856.7
60°	9054.5	9115.0	9971.0	11231.3	13971.2	17899.3	19082.7	18910.9	16940.3	16940.3	15108.7
62.5°	6421.0	6515.9	7209.8	9064.3	12617.6	18740.7	22385.7	22030.5	19156.4	18195.6	15855.1
65°	4103.3	4011.7	4471.6	5722.1	9399.8	17498.4	25261.5	25282.7	21241.6	18698.1	15447.6
67°	2972.3	2936.4	3068.9	3911.8	6373.4	14709.3	25322.0	26443.1	22439.7	18380.6	14144.7
67.5°	2718.6	2746.5	2843.0	3528.8	5790.8	13385.3	25047.0	26374.4	22709.8	18189.1	13673.3
70°	2060.6	2013.2	2118.0	2496.0	3471.6	8444.0	21546.0	24189.3	22374.2	16288.8	10925.3
72.5°	1515.7	1510.7	1656.3	2041.0	2672.8	4497.8	16174.3	19395.4	18279.1	12403.2	6879.2
75°	1023.0	1068.8	1301.2	1705.5	2422.3	2916.7	11026.7	14071.0	12689.7	7042.9	2811.9
77.5°	582.6	585.9	838.0	1370.0	2175.2	2347.1	6533.9	8964.4	6717.2	2342.2	834.8
80°	252.0	276.6	415.7	995.2	1803.7	2078.7	3746.5	4926.6	2717.0	495.9	270.0
82.5°	93.3	109.7	183.3	612.2	1315.9	1712.0	2263.6	2352.0	921.5	175.1	168.6
85°	0.0	3.3	67.1	286.4	685.8	764.4	1512.4	1394.5	407.5	83.5	109.7
87.5°	0.0	0.0	0.0	29.4	90.0	284.8	469.8	523.8	98.2	29.4	26.2
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°	6492.9	6492.9	6492.9	6492.9	6492.9	6492.9	6492.9	6492.9	6492.9	6492.9	6492.9
2.5°	6443.8	6337.4	6070.7	5803.9	5605.9	5440.5	5191.7	5055.9	4983.9	4877.5	4884.0
5°	6281.8	6065.8	5596.0	5109.9	4717.1	4334.1	3875.8	3690.8	3535.4	3447.0	3388.1
7.5°	6041.2	5722.1	5026.4	4378.2	3774.3	3104.9	2602.4	2266.9	2041.0	1957.5	1877.4
10°	5777.7	5353.8	4448.6	3550.1	2712.1	2021.3	1595.8	1288.1	1178.5	1077.0	1086.8
12.5°	5533.8	5018.2	3918.4	2802.1	1900.2	1284.9	1001.7	875.6	839.7	828.2	828.2
15°	5334.1	4697.4	3348.8	2106.5	1302.9	923.1	802.0	767.7	754.5	751.3	751.3
17.5°	5121.4	4393.0	2834.8	1556.5	947.6	772.5	731.6	708.7	703.8	700.6	700.6
20°	4931.5	4086.9	2347.1	1158.8	766.0	695.6	669.4	654.7	649.8	646.5	648.2
22.5°	4751.5	3815.3	1888.8	875.6	674.3	633.4	607.2	592.5	582.6	574.5	576.2
25°	4591.0	3553.4	1518.9	716.9	607.2	571.2	545.1	523.8	502.5	492.7	491.1
27.5°	4478.2	3324.2	1183.4	613.8	546.6	507.4	474.7	448.5	420.7	406.0	402.7
30°	4384.8	3091.8	936.2	541.8	486.1	448.5	407.5	369.9	340.4	325.7	319.2
32.5°	4324.3	2870.8	738.1	482.8	435.4	389.6	343.7	306.0	273.3	258.6	255.3
35°	4314.4	2685.9	603.9	433.7	389.6	340.4	293.0	252.0	224.2	209.5	206.2
37.5°	4384.8	2543.5	505.8	394.4	351.9	297.9	245.5	207.9	183.3	171.8	170.2
40°	4573.0	2453.4	438.7	361.7	317.6	258.6	209.5	176.8	152.2	140.8	140.8
42.5°	4931.5	2456.7	394.4	330.6	283.2	220.9	178.4	147.3	126.1	116.2	112.9
45°	5491.2	2568.1	356.8	299.6	250.4	191.5	152.2	121.1	99.8	91.7	91.7
47.5°	6240.9	2789.0	324.0	268.4	220.9	163.7	129.3	98.2	80.2	72.0	72.0
50°	7221.3	3144.2	296.3	242.2	196.4	140.8	104.8	80.2	62.2	55.7	54.0
52.5°	8245.9	3582.8	263.5	219.3	168.6	119.5	85.1	62.2	47.4	42.6	41.0
55°	9376.9	4011.7	232.5	196.4	137.5	99.8	67.1	49.1	34.4	29.4	29.4
57.5°	10517.7	4432.3	194.8	163.7	108.0	73.7	52.4	36.0	22.9	18.0	18.0
60°	11483.4	4568.1	165.3	132.5	81.8	52.4	37.7	22.9	13.1	8.2	8.2
62.5°	11616.0	4109.9	139.1	101.5	59.0	36.0	19.7	13.1	4.9	3.3	3.3
65°	10895.7	3338.9	116.2	77.0	39.3	18.0	8.2	4.9	1.6	0.0	0.0
67°	9763.2	2707.2	94.9	57.3	27.8	11.4	4.9	1.6	0.0	0.0	0.0
67.5°	9473.4	2581.1	91.7	54.0	24.6	9.8	3.3	1.6	0.0	0.0	0.0
70°	7434.1	1933.0	65.4	32.7	14.7	6.6	0.0	0.0	0.0	0.0	0.0
72.5°	4620.5	1093.3	47.4	19.7	9.8	3.3	0.0	0.0	0.0	0.0	0.0
75°	1746.4	383.0	32.7	13.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	543.4	145.7	19.7	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	183.3	55.7	13.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	112.9	22.9	8.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	70.4	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	3.3	1.6	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)