

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: P456761

Luminaire Tested: **GALN-SA8A-740-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27606 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

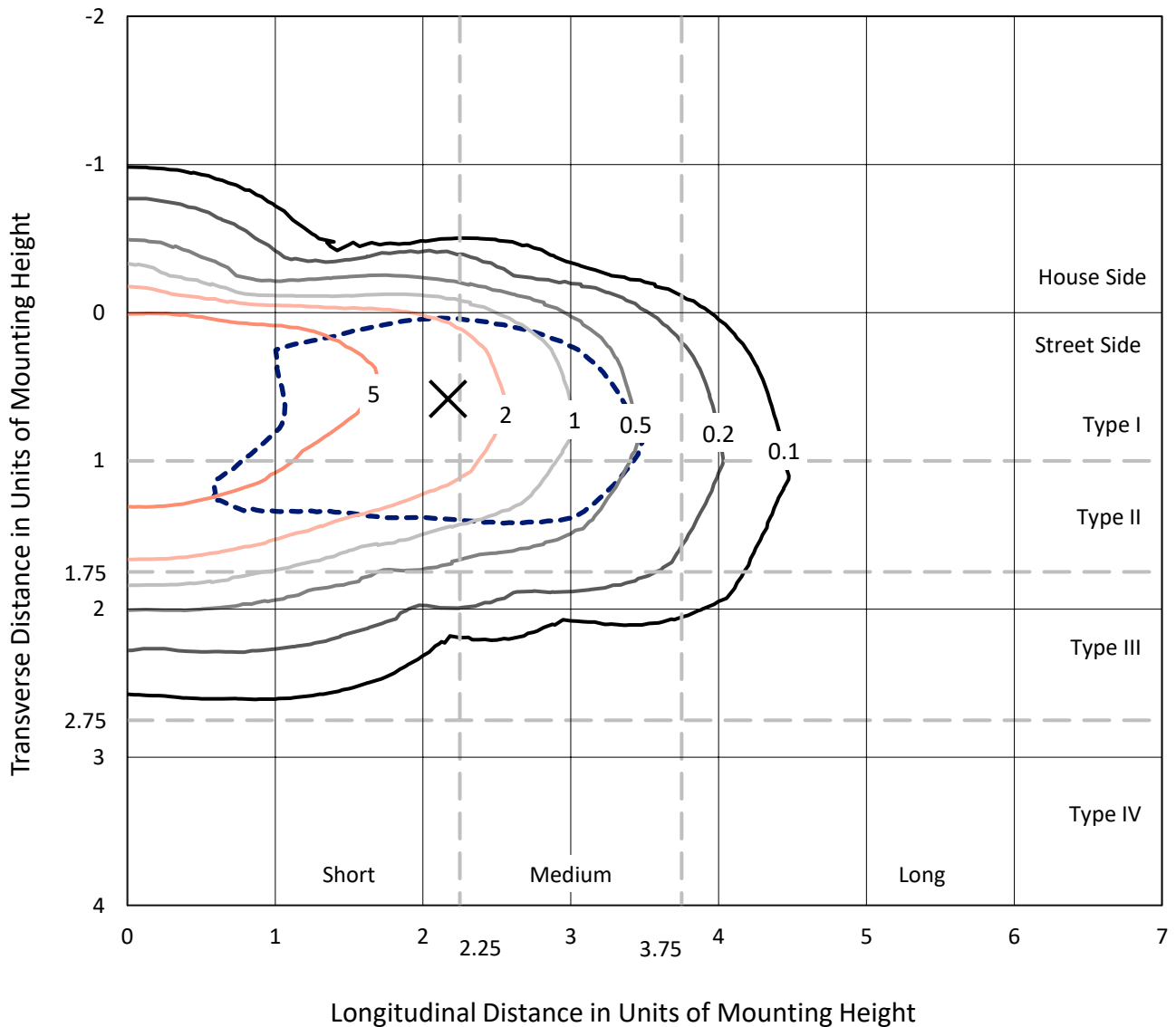
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

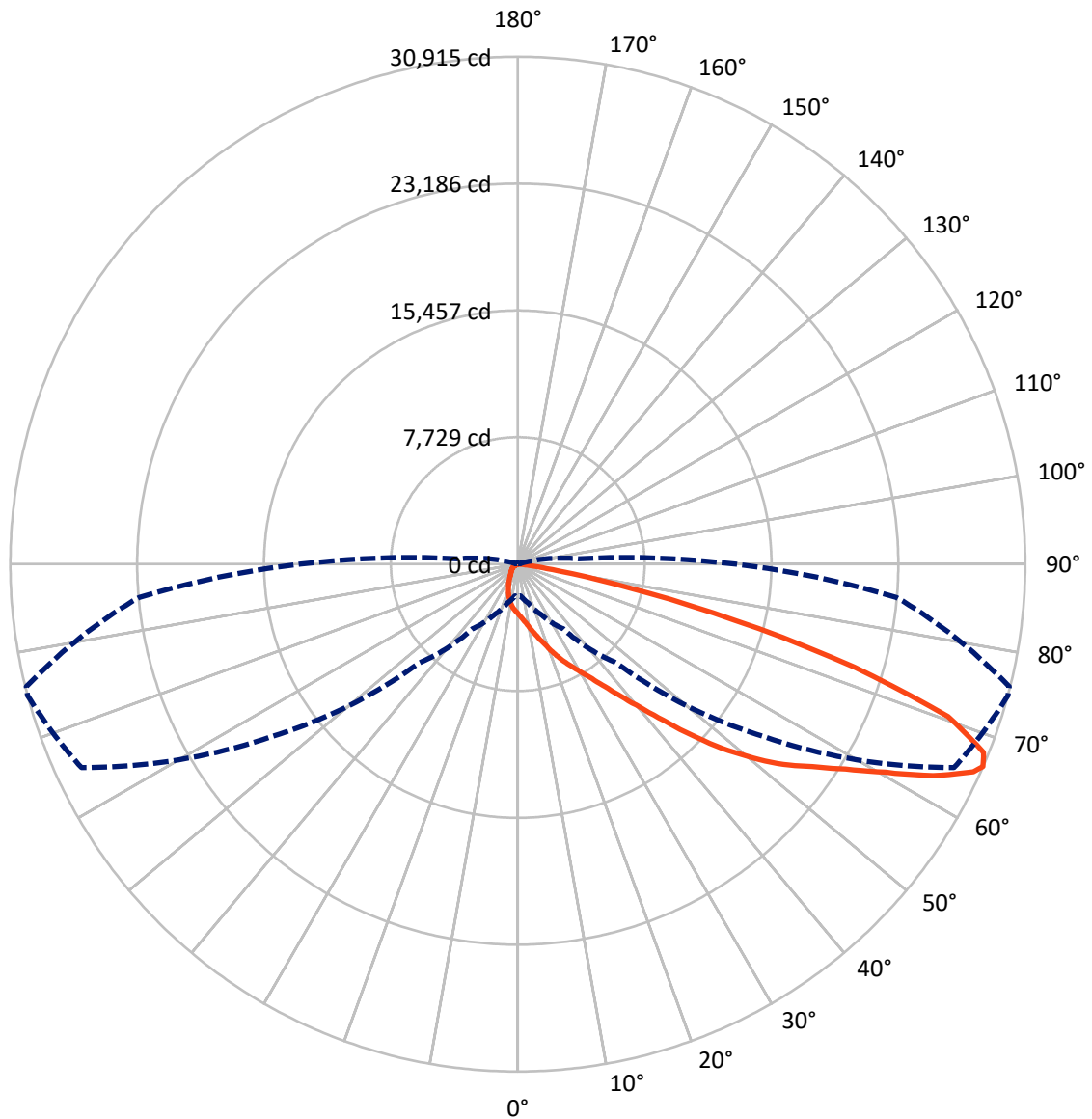
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1704.3	0.0	1704.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	25901.7	0.0	25901.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	27606.0	0.0	27606.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.2	1.1
10°-20°	857.0	3.1
20°-30°	1479.8	5.4
30°-40°	2669.3	9.7
40°-50°	4822.1	17.5
50°-60°	7517.7	27.2
60°-70°	7141.5	25.9
70°-80°	2676.5	9.7
80°-90°	151.0	0.5
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°	27606.0	100.0
0°-180°	27606.0	100.0

Coefficient of Utilization



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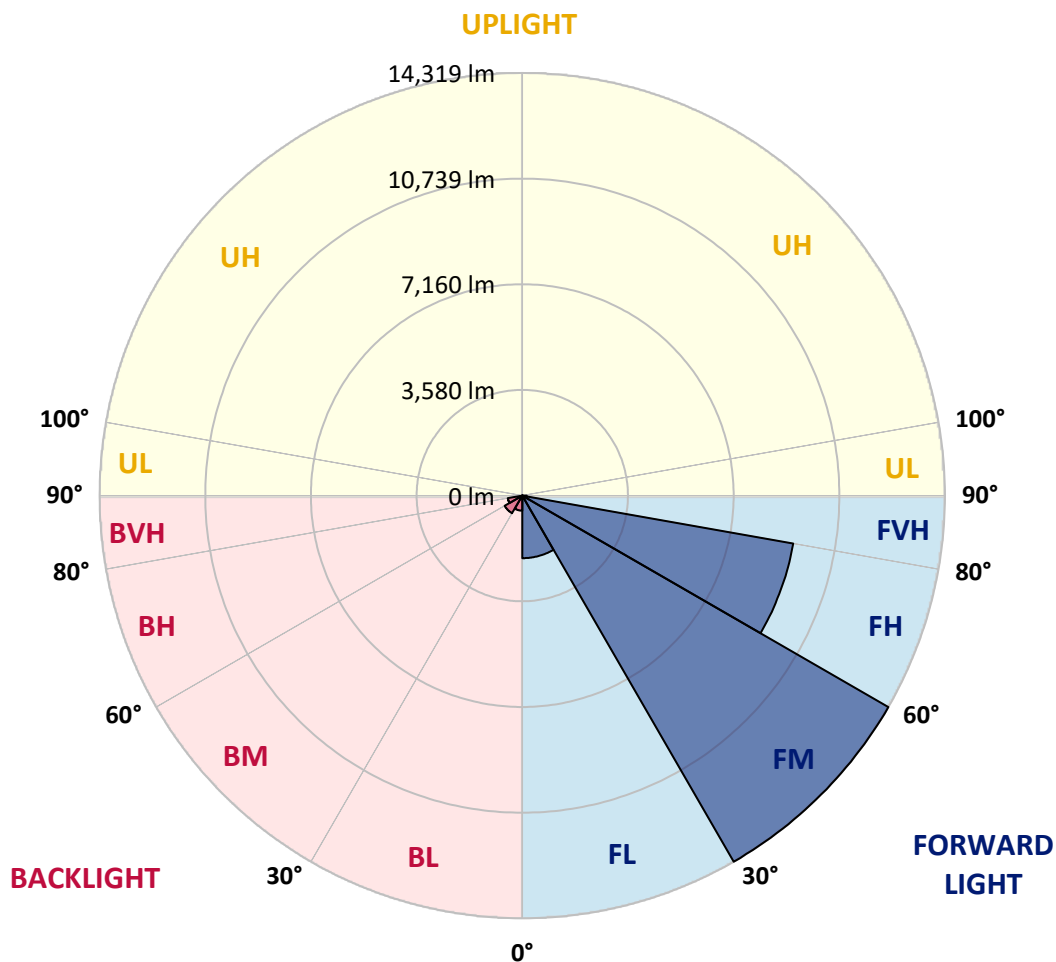
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2119.0	7.7			
FM (30°-60°)	14319.2	51.9			
FH (60°-80°)	9320.3	33.8			G4/12000
FVH (80°-90°)	143.2	0.5			G2/225
BL (0°-30°)	509.0	1.8	B2/1000		
BM (30°-60°)	689.8	2.5	B1/1000		
BH (60°-80°)	497.7	1.8	B1/500		G1/500
BVH (80°-90°)	7.8	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0
2.5°	3606.9	3562.0	3576.2	3555.8	3508.9	3439.5	3378.2	3290.5	3202.7	3188.4	3090.4
5°	4082.5	4070.2	4053.9	3994.7	3962.0	3855.9	3729.3	3578.3	3396.6	3364.0	3186.4
7.5°	4407.0	4400.9	4409.1	4378.5	4349.9	4253.9	4119.2	3913.1	3631.4	3613.0	3317.0
10°	4513.2	4529.5	4560.1	4609.1	4654.0	4623.4	4521.3	4264.1	3935.5	3882.4	3466.0
12.5°	4451.9	4470.3	4543.8	4674.4	4819.4	4903.1	4862.2	4674.4	4258.0	4215.2	3633.4
15°	4294.8	4317.2	4421.3	4623.4	4882.6	5119.4	5221.5	5086.8	4633.6	4564.2	3835.5
17.5°	4062.1	4094.7	4243.7	4511.1	4866.3	5274.6	5562.4	5517.5	5033.7	4968.4	4055.9
20°	3886.5	3911.0	4037.6	4343.8	4796.9	5360.3	5886.9	6013.5	5527.7	5415.4	4315.2
22.5°	4002.9	4011.0	4053.9	4237.6	4672.4	5382.7	6172.7	6529.9	6052.3	5952.2	4584.6
25°	4572.4	4490.7	4447.9	4407.0	4645.9	5362.3	6431.9	7068.8	6574.8	6468.7	4852.0
27.5°	5470.5	5433.8	5217.4	4927.5	4872.4	5388.9	6603.4	7579.1	7066.8	6952.5	5113.3
30°	6448.3	6385.0	6252.3	5827.7	5401.1	5576.7	6727.9	8075.1	7648.5	7497.5	5352.1
32.5°	7346.4	7387.2	7189.2	6752.4	6258.4	5976.7	6889.2	8616.1	8316.0	8128.2	5629.7
35°	8393.6	8475.2	8171.1	7752.6	7174.9	6699.3	7203.5	9226.4	9163.1	8926.3	6058.4
37.5°	9457.0	9506.0	9320.3	8732.4	8211.9	7617.9	7795.5	9979.6	10206.2	10004.1	6570.7
40°	10351.1	10418.5	10281.7	9759.2	9203.9	8681.4	8654.8	10800.2	11447.3	11239.0	7334.2
42.5°	11034.9	11086.0	11090.0	10720.6	10220.5	9983.7	9751.0	11847.3	13002.7	12761.8	8220.1
45°	11898.4	11971.9	11929.0	11677.9	11304.4	11261.5	11141.1	13112.9	14864.3	14560.1	9369.3
47.5°	13233.3	13282.3	13176.2	12880.2	12500.5	12567.9	12496.5	14531.6	16762.6	16501.4	10559.3
50°	14160.1	14241.7	14392.8	14511.2	14235.6	13986.6	13774.3	15856.3	18565.0	18330.3	11775.9
52.5°	14149.9	14284.6	14762.2	15358.3	15960.4	15884.9	15274.6	17319.9	20285.8	19996.0	12919.0
55°	13196.6	13457.9	14160.1	15217.4	16885.1	17715.9	17438.3	19014.1	21771.8	21575.9	14243.7
57.5°	11228.8	11388.1	12363.8	13841.6	16368.7	18577.3	19944.9	21310.5	23553.8	23462.0	16301.3
60°	7552.6	7624.0	8879.4	10706.3	13935.5	17717.9	21782.0	24088.6	25748.2	25703.3	18703.9
62.5°	4327.4	4358.0	5268.4	6809.6	9916.3	15015.3	21937.2	27515.9	28379.3	28403.8	21484.0
65°	2329.1	2345.4	3080.2	3996.7	6033.9	10702.2	19726.5	29393.8	30506.3	30553.2	23206.8
66°	2010.6	1933.1	2451.5	3406.8	4801.0	8518.1	18328.3	29326.4	30914.5	30863.5	23145.6
67.5°	1528.9	1598.3	1957.5	2618.9	3557.9	6056.3	15131.7	28022.1	30604.3	30445.0	22204.6
70°	1094.1	1122.7	1394.2	1867.7	2422.9	3323.1	9669.3	23274.2	27815.9	27601.6	19344.8
72.5°	706.3	736.9	988.0	1351.3	1751.4	1814.7	5413.4	16815.7	21445.2	21414.6	14568.3
75°	504.2	532.8	653.2	967.5	1316.6	1122.7	2606.7	11332.9	13633.4	13541.6	9012.1
77.5°	365.4	379.7	436.8	632.8	941.0	804.2	1208.4	6052.3	6787.1	7107.6	3982.5
80°	210.2	222.5	304.1	385.8	636.9	549.1	577.7	2429.1	2504.6	2384.2	1245.2
82.5°	104.1	118.4	181.7	263.3	398.0	369.5	265.4	730.8	771.6	751.2	314.4
85°	24.5	30.6	102.1	173.5	193.9	165.3	128.6	214.3	265.4	259.2	120.4
87.5°	2.0	4.1	36.7	30.6	32.7	55.1	44.9	55.1	85.7	79.6	42.9
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°	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0	3019.0
2.5°	3045.5	3006.7	2894.5	2784.2	2692.4	2596.5	2508.7	2457.6	2437.2	2414.8	2425.0
5°	3088.4	2994.5	2767.9	2572.0	2380.1	2216.8	2086.1	2002.5	1961.6	1955.5	1945.3
7.5°	3145.5	2984.3	2633.2	2327.0	2075.9	1894.3	1745.3	1624.8	1588.1	1555.4	1528.9
10°	3214.9	2965.9	2465.8	2069.8	1802.4	1573.8	1377.8	1234.9	1161.5	1141.1	1155.3
12.5°	3288.4	2931.2	2290.3	1833.0	1524.8	1232.9	1051.2	979.8	959.4	951.2	953.3
15°	3361.9	2888.3	2106.6	1604.4	1214.5	983.9	900.2	881.8	873.6	869.6	865.5
17.5°	3429.3	2818.9	1900.4	1381.9	983.9	841.0	810.4	794.0	777.7	771.6	761.4
20°	3508.9	2739.3	1714.6	1132.9	832.8	761.4	724.6	694.0	669.5	653.2	651.2
22.5°	3584.4	2637.3	1520.7	939.0	759.3	683.8	624.6	592.0	563.4	543.0	549.1
25°	3625.2	2512.8	1347.2	818.5	692.0	606.2	540.9	500.1	469.5	459.3	457.2
27.5°	3625.2	2359.7	1177.8	749.1	630.7	536.8	469.5	430.7	410.3	396.0	398.0
30°	3596.7	2190.2	1020.6	696.1	577.7	475.6	412.3	377.6	361.3	351.1	349.1
32.5°	3574.2	2029.0	885.9	645.0	522.6	422.5	367.4	340.9	324.6	314.4	314.4
35°	3608.9	1890.2	781.8	594.0	471.5	381.7	332.7	308.2	291.9	283.7	281.7
37.5°	3700.8	1763.6	702.2	538.9	424.6	347.0	308.2	279.6	263.3	253.1	249.0
40°	3927.3	1692.2	643.0	487.9	379.7	318.4	279.6	253.1	232.7	222.5	220.5
42.5°	4290.7	1694.2	585.8	440.9	345.0	293.9	255.2	224.5	202.1	191.9	189.8
45°	4837.7	1771.8	540.9	396.0	314.4	267.4	228.6	196.0	175.5	165.3	165.3
47.5°	5493.0	1922.8	502.1	357.2	285.8	242.9	202.1	169.4	149.0	140.8	140.8
50°	6203.3	2118.8	463.4	316.4	261.3	216.4	173.5	147.0	130.6	124.5	124.5
52.5°	6928.0	2355.6	424.6	283.7	234.7	187.8	149.0	130.6	116.4	112.3	110.2
55°	7879.2	2657.7	383.8	249.0	206.2	161.3	132.7	114.3	98.0	91.9	89.8
57.5°	9342.7	3112.9	338.8	218.4	169.4	134.7	114.3	95.9	77.6	67.4	65.3
60°	11108.4	3668.1	291.9	191.9	136.8	110.2	91.9	73.5	57.2	44.9	42.9
62.5°	12761.8	4021.2	247.0	161.3	108.2	83.7	65.3	55.1	40.8	28.6	26.5
65°	13492.6	3902.8	204.1	130.6	85.7	59.2	42.9	38.8	24.5	12.2	10.2
66°	13249.7	3727.3	187.8	118.4	77.6	51.0	36.7	32.7	18.4	6.1	6.1
67.5°	12533.2	3312.9	163.3	102.1	67.4	40.8	28.6	24.5	10.2	2.0	0.0
70°	10738.9	2680.1	128.6	75.5	49.0	28.6	16.3	12.2	6.1	0.0	0.0
72.5°	8248.6	1996.3	102.1	57.2	34.7	16.3	8.2	4.1	6.1	0.0	0.0
75°	5054.1	1141.1	79.6	42.9	22.5	10.2	6.1	0.0	6.1	2.0	0.0
77.5°	2243.3	512.4	53.1	28.6	16.3	8.2	4.1	0.0	4.1	2.0	0.0
80°	567.5	167.4	30.6	20.4	12.2	6.1	2.0	0.0	4.1	4.1	2.0
82.5°	155.1	61.2	22.5	16.3	10.2	6.1	2.0	0.0	4.1	4.1	4.1
85°	61.2	28.6	20.4	16.3	12.2	6.1	2.0	0.0	4.1	4.1	4.1
87.5°	28.6	20.4	20.4	18.4	14.3	6.1	2.0	0.0	4.1	2.0	4.1
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)