

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: P652628

Luminaire Tested: **GALN-SA9B-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34733.3 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

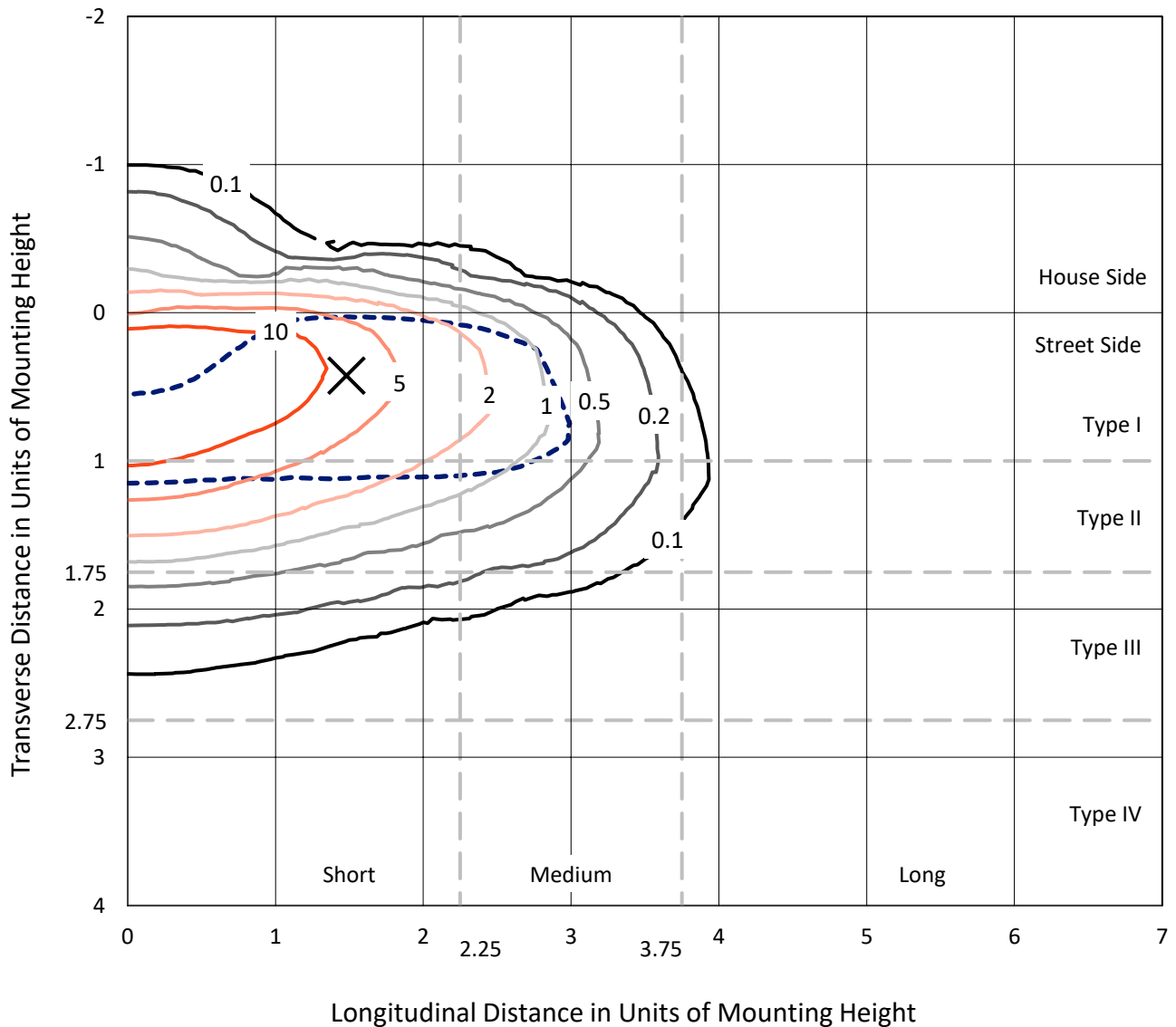
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

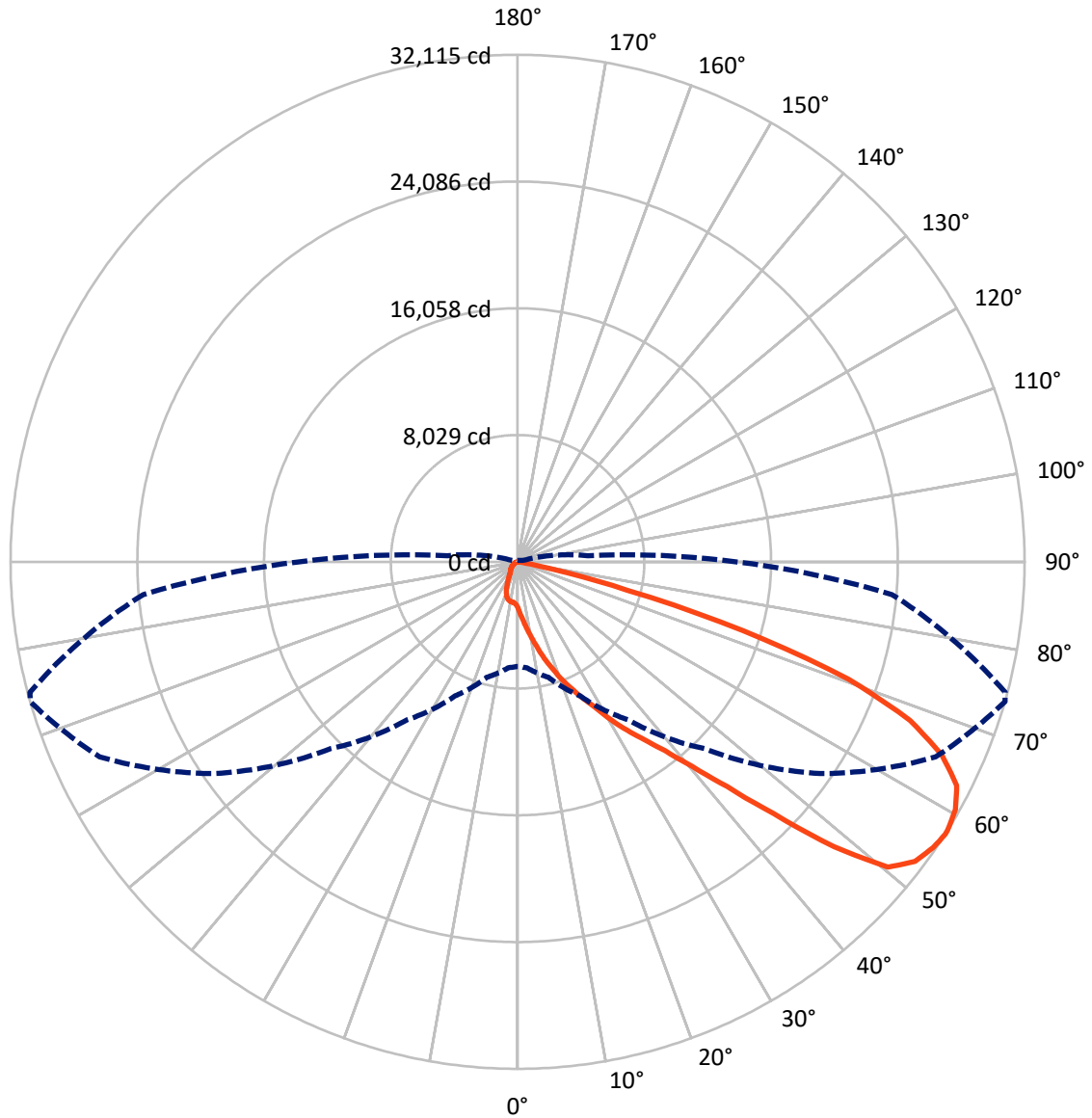
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2003.3	0.0	2003.3
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	32730.0	0.0	32730.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	34733.3	0.0	34733.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.1	1.0
10°-20°	1383.9	4.0
20°-30°	2961.3	8.5
30°-40°	5442.8	15.7
40°-50°	8343.8	24.0
50°-60°	8826.7	25.4
60°-70°	5764.0	16.6
70°-80°	1574.9	4.5
80°-90°	84.8	0.2
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°	34733.3	100.0
0°-180°	34733.3	100.0

Coefficient of Utilization



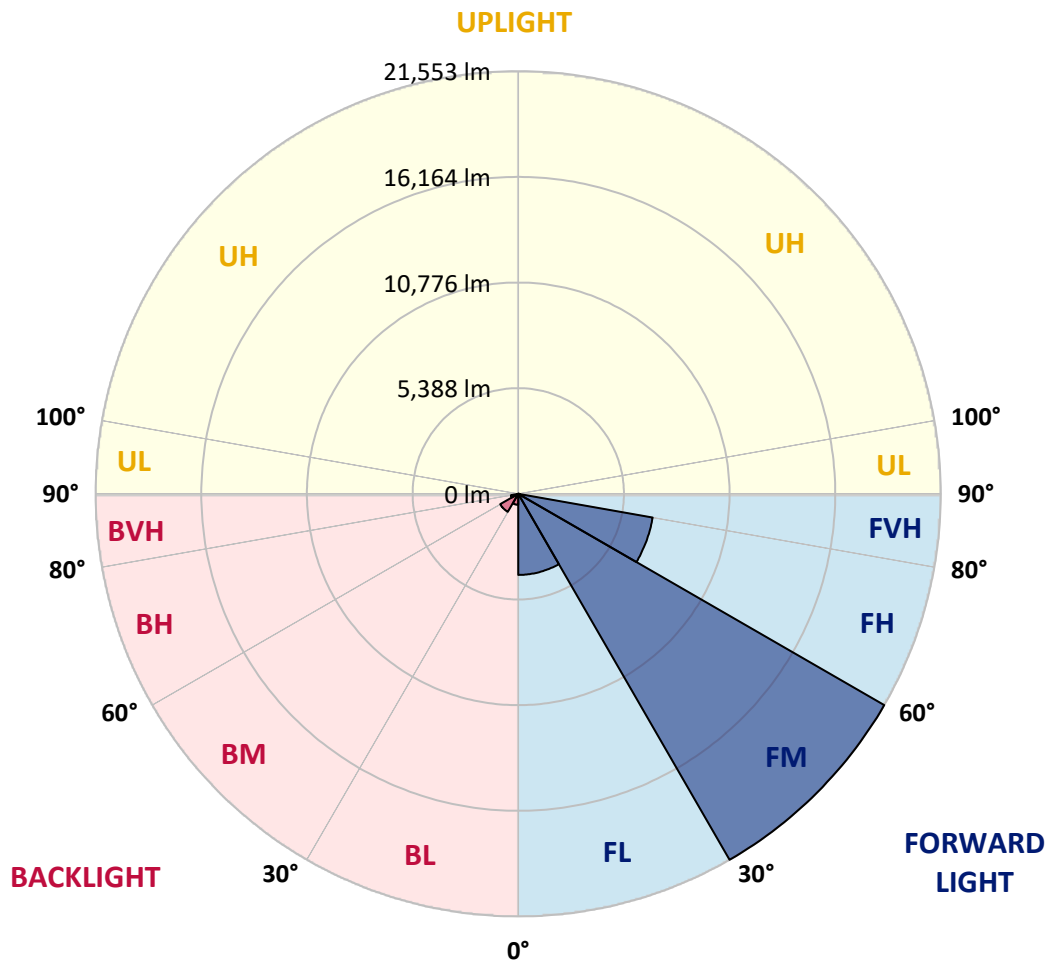
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4136.7	11.9			
FM (30°-60°)	21552.7	62.1			
FH (60°-80°)	6962.9	20.0			G3/7500
FVH (80°-90°)	77.8	0.2			G1/100
BL (0°-30°)	559.6	1.6	B2/1000		
BM (30°-60°)	1060.6	3.1	B2/2500		
BH (60°-80°)	376.1	1.1	B1/500		G1/500
BVH (80°-90°)	7.0	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2908.9	2908.9	2908.9	2908.9	2908.9	2908.9	2908.9	2908.9	2908.9	2908.9	2908.9
2.5°	4256.6	4218.2	4141.5	4115.1	4002.4	3827.3	3673.8	3467.6	3304.5	3287.8	3091.1
5°	5700.2	5613.9	5577.9	5405.3	5134.3	4880.1	4443.7	4112.7	3731.4	3702.7	3307.0
7.5°	7091.1	6971.2	6935.2	6772.2	6455.6	6055.1	5489.2	4887.3	4283.0	4227.8	3597.1
10°	8098.3	8115.1	8050.4	7942.4	7685.8	7278.2	6580.3	5757.8	4896.9	4827.3	3923.3
12.5°	8820.2	8817.7	8829.7	8827.3	8690.6	8381.3	7647.5	6700.2	5573.1	5436.5	4297.3
15°	9290.2	9297.3	9333.3	9458.1	9472.4	9280.6	8669.0	7601.9	6357.3	6187.1	4702.6
17.5°	9764.9	9815.3	9872.9	9990.4	10095.9	10019.2	9587.5	8542.0	7067.2	6940.0	5136.7
20°	10549.2	10618.7	10585.1	10657.1	10712.2	10719.4	10386.1	9410.0	7928.0	7714.6	5633.1
22.5°	11803.4	11800.9	11714.6	11585.1	11477.2	11472.4	11170.2	10302.2	8709.8	8503.6	6131.9
25°	13388.5	13395.7	13227.8	12858.5	12589.9	12261.4	11913.7	11083.9	9546.8	9292.5	6657.1
27.5°	15206.2	15160.6	14906.5	14398.1	13865.7	13304.5	12803.3	11992.8	10434.0	10223.0	7259.0
30°	16839.3	16822.5	16525.1	15904.1	15203.9	14640.3	13913.7	13131.9	11582.8	11323.7	7932.8
32.5°	18359.7	18383.7	17971.2	17328.6	16652.2	16002.4	15235.0	14220.6	12709.8	12342.9	8666.7
35°	19546.8	19570.7	19143.9	18609.1	17913.6	17374.1	16642.6	15381.3	13822.5	13513.2	9510.8
37.5°	20179.8	20211.0	19964.0	19561.2	19127.0	18856.1	18175.0	16875.3	15175.0	14988.0	10508.4
40°	20299.7	20335.7	20227.8	20119.9	20095.9	20290.1	20091.1	18635.5	17050.3	16757.8	11995.2
42.5°	19940.0	19988.0	20035.9	20275.8	20765.0	21477.2	22170.2	21024.0	19465.2	19071.9	13812.9
45°	18995.2	18990.4	19179.8	19800.9	20896.8	22417.2	24342.9	24014.3	22755.4	22287.8	16381.3
47.5°	17378.8	17354.9	17764.9	18649.8	20357.2	22589.9	26115.1	27645.0	26954.4	26522.7	19141.5
50°	14916.1	15033.5	15678.6	16913.6	19016.8	22067.1	26661.8	30026.3	30400.5	29942.4	21371.7
52.5°	12031.2	12026.4	13038.4	14714.6	17031.2	20916.0	26280.6	30458.0	31520.3	31170.2	22470.0
55°	8904.1	8966.4	10019.2	11709.8	14453.3	18815.4	25035.9	30014.4	31947.2	31700.2	23194.2
57°	6623.5	6733.8	7577.9	9366.9	12208.6	16736.2	23378.9	29220.5	32115.1	31980.8	23796.1
57.5°	6182.3	6187.1	7009.6	8635.5	11551.6	15937.6	22904.0	28889.6	32110.3	32036.0	23894.4
60°	3805.8	3925.6	4494.0	5837.0	8455.6	12438.8	19721.8	26987.9	31860.9	31968.8	24314.2
62.5°	2278.2	2328.6	2697.8	3518.0	5450.9	9079.1	16139.0	24553.9	31211.0	31539.5	24285.3
65°	1465.2	1477.2	1645.1	2129.5	3407.6	6136.7	12436.5	21338.1	29529.9	30134.2	23335.7
67.5°	1131.9	1151.1	1218.2	1398.1	1976.0	3822.5	8796.2	17906.5	26810.5	27589.8	21033.6
70°	1004.8	1014.4	1038.4	1095.9	1306.9	2158.3	5472.4	13988.0	22232.6	22453.2	16460.4
72.5°	820.1	846.6	920.9	940.1	1035.9	1347.7	3045.6	9388.5	14937.6	14992.8	9208.6
75°	635.5	640.3	750.6	805.8	872.9	928.0	1359.7	4733.8	7175.1	6791.3	3549.2
77.5°	474.8	496.4	546.7	616.3	712.2	664.3	609.1	1784.2	2227.8	2187.0	1031.2
80°	304.5	316.6	381.3	462.8	554.0	434.0	343.0	522.8	489.2	503.6	247.0
82.5°	153.5	155.8	244.6	376.5	352.5	218.2	215.8	213.4	182.2	179.9	115.1
85°	16.8	36.0	158.3	215.8	158.3	71.9	100.8	98.3	96.0	98.3	67.1
87.5°	2.4	2.4	26.4	31.2	21.6	24.0	28.8	31.2	38.3	36.0	28.8
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°	2908.9	2908.9	2908.9	2908.9	2908.9	2908.9	2908.9	2908.9	2908.9	2908.9	2908.9
2.5°	2995.2	2899.3	2721.8	2551.6	2424.4	2342.9	2237.4	2199.0	2143.9	2136.7	2110.3
5°	3124.7	2942.4	2633.1	2388.5	2191.8	2043.1	1913.7	1805.7	1719.4	1700.2	1709.8
7.5°	3309.3	3038.4	2606.7	2273.4	2000.0	1745.8	1539.5	1412.5	1321.4	1287.7	1292.5
10°	3518.0	3165.4	2601.9	2151.1	1733.8	1422.0	1196.7	1084.0	1031.2	1012.0	990.4
12.5°	3765.0	3311.8	2589.9	1961.6	1441.2	1134.3	973.6	906.5	856.1	841.8	841.8
15°	4043.2	3467.6	2532.3	1726.7	1170.3	937.6	829.7	777.0	760.2	745.8	745.8
17.5°	4333.3	3621.1	2412.5	1436.4	971.2	803.3	736.2	705.0	681.0	664.3	664.3
20°	4664.3	3772.1	2220.7	1179.8	820.1	717.0	664.3	628.3	609.1	594.8	590.0
22.5°	4978.4	3894.5	1976.0	968.8	714.6	645.0	597.1	558.8	539.6	532.4	532.4
25°	5304.5	3968.8	1681.1	801.0	652.3	585.2	532.4	501.2	484.4	479.6	477.2
27.5°	5621.1	4012.0	1422.0	700.2	594.8	530.0	479.6	455.7	438.8	434.0	436.5
30°	6004.8	4019.1	1170.3	628.3	544.4	477.2	431.7	410.1	400.5	395.7	393.3
32.5°	6393.3	4009.6	983.2	585.2	496.4	431.7	393.3	376.5	369.3	362.1	362.1
35°	6829.8	3959.3	837.0	541.9	450.9	393.3	359.7	345.3	335.7	328.6	326.1
37.5°	7371.7	3932.9	753.0	494.0	410.1	357.3	326.1	311.8	304.5	294.9	292.6
40°	8225.4	4050.3	726.6	450.9	369.3	323.7	294.9	278.2	268.6	259.0	256.6
42.5°	9290.2	4256.6	683.5	407.6	333.4	292.6	263.8	244.6	227.8	215.8	211.0
45°	10669.0	4527.6	616.3	362.1	302.2	259.0	232.6	208.7	187.0	177.5	175.1
47.5°	12115.1	4789.0	556.3	326.1	268.6	230.2	201.4	175.1	155.8	148.7	146.2
50°	13002.4	4841.7	518.0	285.4	235.0	199.1	170.3	146.2	134.3	127.1	127.1
52.5°	13407.6	4757.8	465.2	249.4	203.9	175.1	146.2	127.1	119.9	115.1	112.7
55°	13690.6	4628.3	395.7	215.8	175.1	148.7	129.5	115.1	105.5	100.8	98.3
57°	13856.1	4453.3	343.0	189.5	151.0	129.5	115.1	103.1	93.5	83.9	83.9
57.5°	13863.3	4386.1	328.6	187.0	143.9	124.7	112.7	100.8	88.7	79.1	76.7
60°	13649.9	3925.6	263.8	158.3	115.1	105.5	93.5	79.1	62.3	52.7	50.4
62.5°	12964.0	3340.5	218.2	134.3	93.5	81.5	67.1	60.0	43.1	31.2	31.2
65°	11925.6	2709.9	187.0	107.9	76.7	60.0	45.6	43.1	26.4	14.4	12.0
67.5°	10424.4	2110.3	158.3	88.7	64.8	43.1	31.2	28.8	14.4	4.8	0.0
70°	7942.4	1438.9	131.9	71.9	47.9	31.2	21.6	16.8	9.6	2.4	0.0
72.5°	4577.9	791.4	110.3	55.2	36.0	24.0	16.8	9.6	9.6	0.0	0.0
75°	1635.5	340.5	83.9	40.8	28.8	19.2	12.0	4.8	7.2	2.4	0.0
77.5°	520.4	182.2	55.2	31.2	24.0	14.4	9.6	4.8	4.8	2.4	0.0
80°	153.5	96.0	33.6	26.4	16.8	12.0	7.2	2.4	4.8	2.4	0.0
82.5°	83.9	47.9	26.4	19.2	16.8	9.6	7.2	2.4	2.4	2.4	0.0
85°	43.1	28.8	21.6	19.2	16.8	9.6	7.2	2.4	0.0	2.4	2.4
87.5°	24.0	21.6	21.6	19.2	16.8	12.0	7.2	2.4	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)