

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: P533497

Luminaire Tested: **GALN-SA8D-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8D-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30189 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 493
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

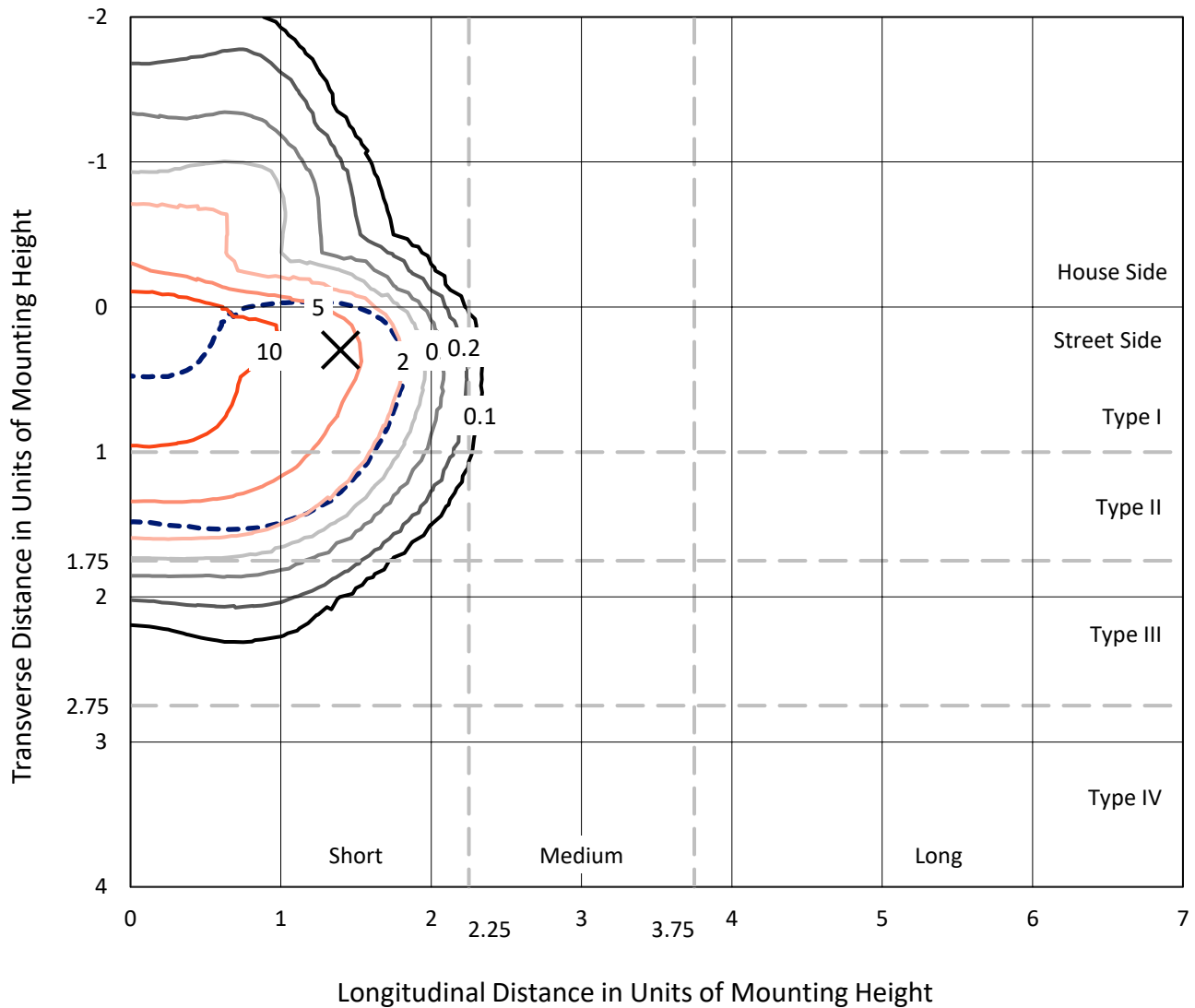


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

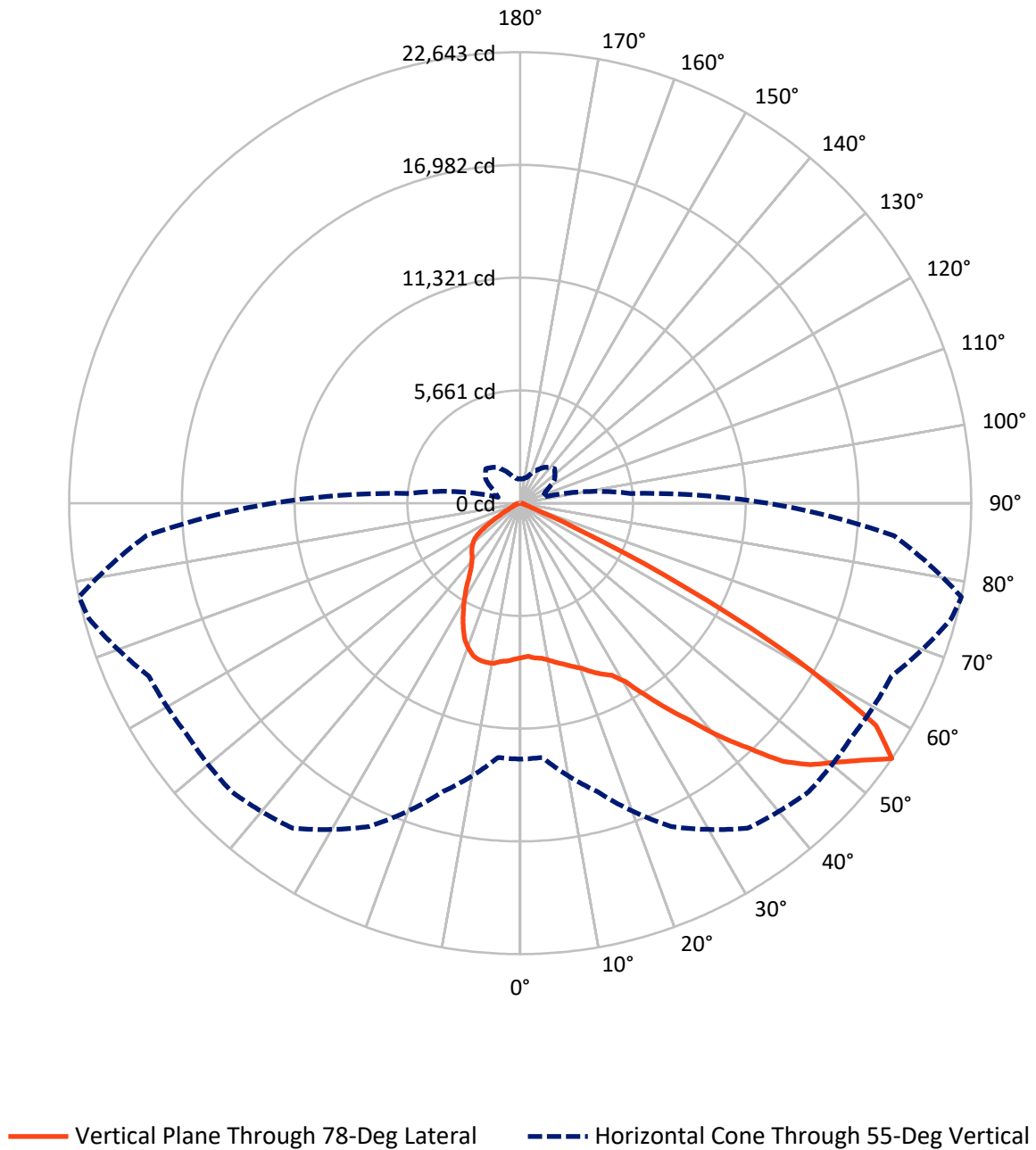


Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5607.3	0.0	5607.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24581.7	0.0	24581.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	30189.0	0.0	30189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	692.1	2.3
10°-20°	1831.6	6.1
20°-30°	3210.5	10.6
30°-40°	5293.7	17.5
40°-50°	7703.0	25.5
50°-60°	8728.3	28.9
60°-70°	2495.6	8.3
70°-80°	193.8	0.6
80°-90°	40.3	0.1
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°	30189.0	100.0
0°-180°	30189.0	100.0

Coefficient of Utilization



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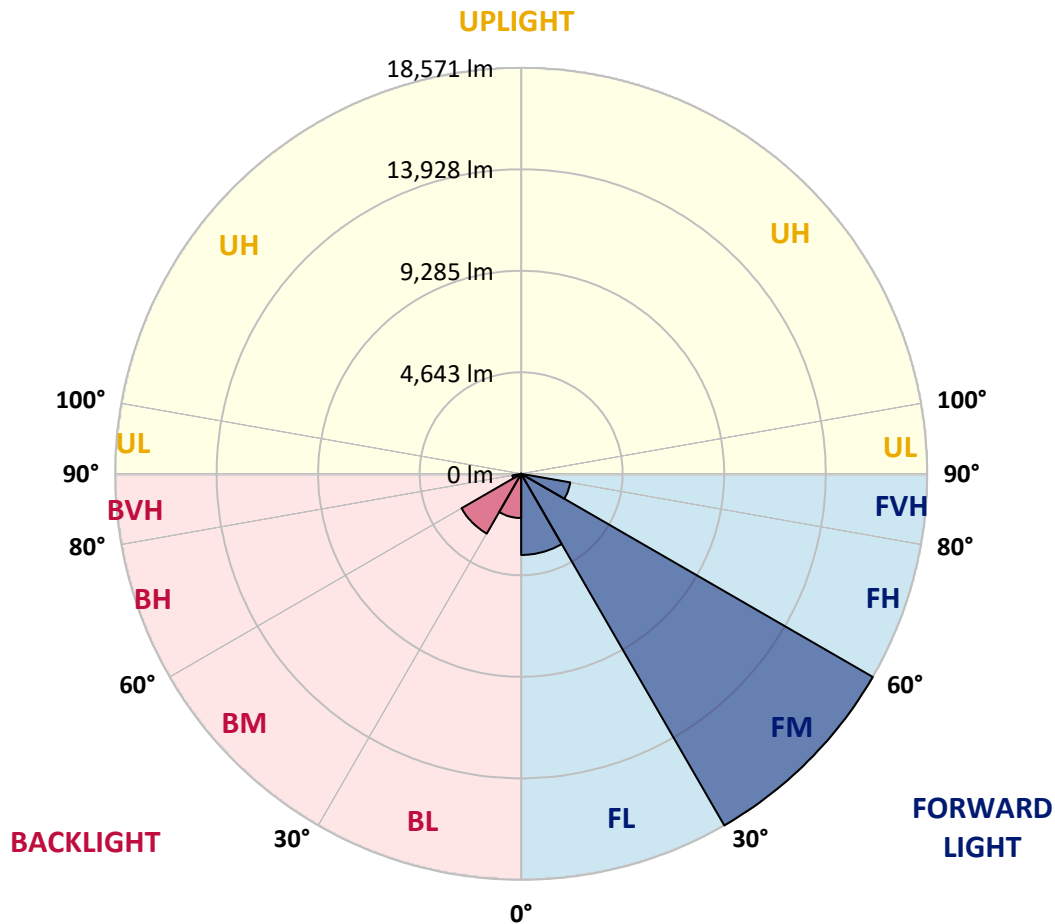
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3711.1	12.3			
FM	(30°-60°)	18570.9	61.5			
FH	(60°-80°)	2280.1	7.6			G2/5000
FVH	(80°-90°)	19.6	0.1			G1/100
BL	(0°-30°)	2023.1	6.7	B3/2500		
BM	(30°-60°)	3154.2	10.4	B3/5000		
BH	(60°-80°)	409.3	1.4	B1/500		G1/500
BVH	(80°-90°)	20.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7761.6	7761.6	7761.6	7761.6	7761.6	7761.6	7761.6	7761.6	7761.6	7761.6	7761.6
2.5°	7297.4	7367.6	7378.4	7464.7	7459.3	7605.1	7648.3	7653.7	7750.8	7702.2	7826.4
5°	7092.3	7054.5	7038.3	7189.5	7232.7	7362.2	7470.1	7534.9	7734.6	7804.8	7934.3
7.5°	6908.8	6908.8	6919.6	7054.5	7038.3	7205.7	7319.0	7518.7	7810.2	7869.6	8026.1
10°	6730.7	6665.9	6746.9	6887.2	7006.0	7081.5	7319.0	7507.9	7848.0	8020.7	8236.6
12.5°	6638.9	6671.3	6682.1	6784.7	6914.2	7140.9	7270.4	7583.5	8117.8	8220.4	8452.5
15°	7216.5	7151.7	6995.2	6903.4	7011.4	7119.3	7443.2	7761.6	8258.2	8403.9	8663.0
17.5°	7885.8	7831.8	7702.2	7454.0	7211.1	7410.8	7664.5	7955.9	8409.3	8625.2	9008.4
20°	8760.1	8673.8	8544.2	8058.5	7848.0	7632.1	7901.9	8247.4	8657.6	8851.9	9245.9
22.5°	9801.9	9801.9	9510.4	8922.1	8484.9	8279.8	8393.1	8592.8	8932.9	9197.3	9586.0
25°	10886.8	10854.4	10589.9	9980.0	9240.5	8997.6	9127.2	9267.5	9359.3	9505.0	9764.1
27.5°	12128.2	11939.3	11604.6	10929.9	10276.8	9807.3	9947.6	9823.5	9710.1	9785.7	10158.1
30°	12970.2	13088.9	12662.5	12014.8	11399.5	10876.0	10903.0	10795.0	10276.8	10384.8	10606.1
32.5°	13844.6	13920.2	13682.7	13326.4	12711.1	12101.2	11879.9	11788.1	11399.5	11448.1	11232.2
35°	14573.3	14719.0	14508.5	14352.0	14173.8	13682.7	13072.8	13369.6	12743.5	12624.8	12063.4
37.5°	15242.5	15199.4	15447.7	15285.7	15247.9	14902.5	14233.2	14292.6	13871.6	13844.6	13196.9
40°	15841.7	15852.5	16192.5	16268.1	16116.9	15501.6	14530.1	14999.7	15339.7	15372.1	14540.9
42.5°	16338.2	16484.0	16775.4	17385.4	17158.7	16133.1	14837.7	15350.5	16613.5	16813.2	15814.7
45°	16770.0	17066.9	17428.5	17973.7	17844.1	17029.1	15604.2	16073.8	17973.7	18497.2	17012.9
47.5°	16797.0	17185.7	17579.7	18389.3	18551.2	17509.5	16397.6	17218.0	19053.2	19619.9	17887.3
50°	16689.1	16894.2	17682.2	18562.0	18929.0	18292.1	17509.5	18178.8	20100.3	20456.5	18329.9
52.5°	15409.9	15566.4	17147.9	18723.9	19609.1	19177.3	18983.0	19517.4	21169.0	21433.5	18745.5
55°	12846.1	12819.1	14994.3	17908.9	19922.2	20488.9	20370.2	20559.1	22405.0	22642.5	18848.1
57.5°	8787.1	9278.3	11156.6	14913.3	18006.1	20181.3	20305.4	19992.4	20963.9	21055.7	16430.0
60°	4739.0	4944.1	6455.4	9953.0	13709.7	16446.2	16770.0	16203.3	16127.7	15868.7	11728.8
62.5°	1883.7	1986.3	2844.5	4927.9	7470.1	9996.2	10692.5	10460.4	9963.8	9283.7	6072.2
65°	896.0	960.8	1414.1	2304.7	3314.1	4166.9	4863.2	5079.1	3745.9	3373.4	2002.5
67.5°	609.9	658.5	1030.9	1317.0	1182.1	1236.0	1608.5	1495.1	879.8	750.3	555.9
70°	464.2	496.6	825.8	896.0	529.0	372.4	415.6	388.6	361.6	367.0	361.6
72.5°	329.2	356.2	604.5	529.0	232.1	172.7	221.3	264.5	264.5	264.5	259.1
75°	199.7	226.7	350.8	205.1	91.8	91.8	140.3	178.1	188.9	194.3	183.5
77.5°	102.6	129.5	118.7	59.4	59.4	70.2	102.6	124.1	134.9	134.9	129.5
80°	21.6	21.6	21.6	32.4	59.4	75.6	102.6	113.3	129.5	129.5	118.7
82.5°	0.0	5.4	16.2	32.4	54.0	70.2	97.2	113.3	129.5	134.9	124.1
85°	0.0	5.4	10.8	21.6	37.8	43.2	37.8	32.4	32.4	32.4	32.4
87.5°	0.0	0.0	5.4	5.4	5.4	10.8	10.8	10.8	10.8	10.8	10.8
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°	7761.6	7761.6	7761.6	7761.6	7761.6	7761.6	7761.6	7761.6	7761.6	7761.6	7761.6
2.5°	7837.2	7853.4	7826.4	7821.0	7799.4	7864.2	7707.6	7669.9	7767.0	7675.2	7696.8
5°	7939.7	7977.5	7928.9	7848.0	7729.2	7545.7	7389.2	7184.1	7086.9	7016.8	7006.0
7.5°	8015.3	8042.3	7993.7	7734.6	7378.4	6914.2	6568.8	6315.1	6115.4	6056.0	5958.8
10°	8322.9	8328.3	8085.5	7513.3	6817.0	6207.1	5678.2	5289.6	5089.8	4965.7	4911.7
12.5°	8528.1	8517.3	8026.1	7076.1	6147.8	5338.1	4733.6	4264.0	4080.5	4021.1	3983.4
15°	8787.1	8727.8	7885.8	6628.1	5284.2	4409.8	3864.6	3540.8	3524.6	3486.8	3524.6
17.5°	8992.2	8824.9	7680.6	5813.1	4458.3	3632.5	3276.3	3297.9	3341.1	3378.8	3384.2
20°	9326.9	8981.4	7211.1	5100.6	3691.9	3114.4	3109.0	3206.1	3314.1	3357.2	3400.4
22.5°	9580.6	9046.2	6709.1	4339.6	3065.8	2903.9	2995.6	3141.3	3222.3	3265.5	3330.3
25°	9672.3	8868.1	6039.8	3578.5	2763.5	2806.7	2947.0	3044.2	3146.7	3195.3	3168.3
27.5°	9764.1	8776.3	5241.0	2947.0	2601.6	2741.9	2860.7	2957.8	2990.2	3055.0	3098.2
30°	9985.4	8457.9	4523.1	2547.6	2520.6	2698.8	2785.1	2817.5	2903.9	2941.6	2941.6
32.5°	10163.5	8333.7	3762.1	2358.7	2509.8	2720.3	2731.1	2731.1	2741.9	2714.9	2704.1
35°	10530.5	7907.3	3082.0	2245.4	2504.4	2725.7	2752.7	2661.0	2412.7	2315.5	2288.5
37.5°	10983.9	7632.1	2580.0	2218.4	2542.2	2790.5	2833.7	2488.2	2164.4	2007.9	1980.9
40°	11534.5	7437.8	2250.8	2207.6	2628.6	2941.6	2812.1	2353.3	1932.3	1705.6	1694.8
42.5°	12176.8	7259.6	2029.5	2202.2	2736.5	3098.2	2790.5	2240.0	1694.8	1543.7	1565.3
45°	12689.5	7162.5	1878.3	2164.4	2774.3	3189.9	2806.7	2040.3	1597.7	1500.5	1511.3
47.5°	13088.9	6957.4	1754.2	2099.6	2768.9	3222.3	2661.0	1959.3	1549.1	1576.1	1603.1
50°	13099.7	6682.1	1597.7	1959.3	2688.0	3162.9	2493.6	1883.7	1538.3	1651.6	1705.6
52.5°	12954.0	6293.5	1430.3	1759.6	2499.0	2957.8	2342.5	1851.3	1489.7	1478.9	1543.7
55°	12435.8	5564.8	1149.7	1424.9	2110.4	2439.7	2207.6	1792.0	1344.0	1219.8	1230.6
57.5°	10050.2	3988.8	847.4	1020.1	1495.1	1786.6	1991.7	1765.0	1209.0	1036.3	1041.7
60°	6223.3	2261.6	620.7	696.3	923.0	1084.9	1613.9	1640.8	1079.5	874.4	863.6
62.5°	3195.3	1117.3	480.4	491.2	566.7	636.9	1106.5	1376.4	976.9	831.2	831.2
65°	1068.7	550.5	421.0	377.8	377.8	394.0	669.3	955.4	825.8	696.3	696.3
67.5°	458.8	410.2	367.0	329.2	302.3	286.1	377.8	555.9	615.3	529.0	507.4
70°	356.2	345.4	318.5	275.3	237.5	215.9	221.3	286.1	350.8	340.0	329.2
72.5°	264.5	264.5	253.7	215.9	183.5	156.5	145.7	151.1	167.3	172.7	178.1
75°	183.5	188.9	188.9	167.3	134.9	113.3	97.2	81.0	64.8	54.0	48.6
77.5°	124.1	129.5	140.3	124.1	102.6	75.6	59.4	43.2	27.0	10.8	10.8
80°	108.0	124.1	134.9	124.1	108.0	81.0	59.4	32.4	16.2	0.0	0.0
82.5°	113.3	124.1	140.3	118.7	102.6	75.6	59.4	37.8	16.2	5.4	0.0
85°	27.0	27.0	32.4	37.8	48.6	54.0	43.2	27.0	16.2	5.4	0.0
87.5°	10.8	10.8	10.8	10.8	10.8	5.4	5.4	5.4	5.4	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)