

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: P533479

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
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-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37030 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

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

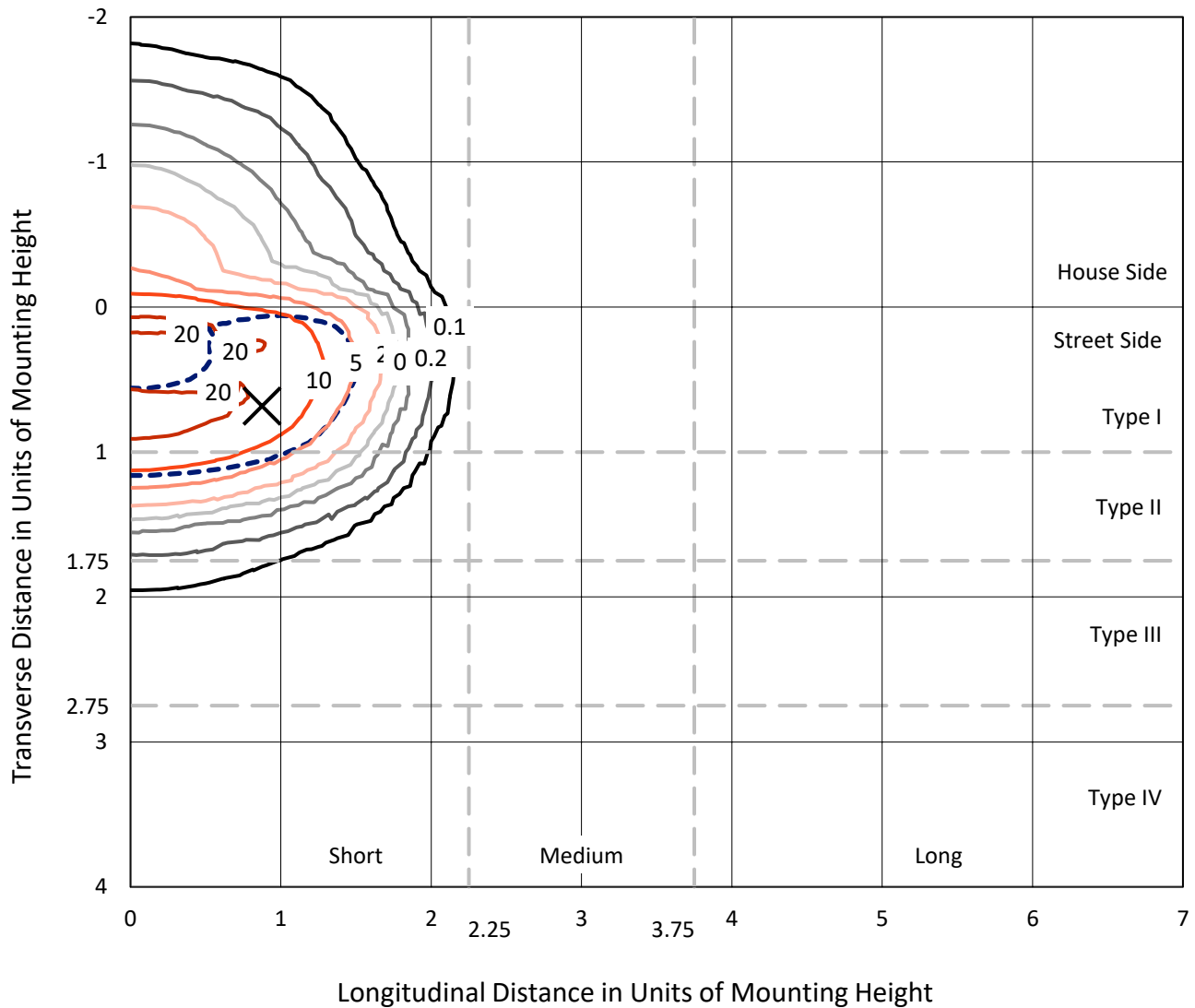


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

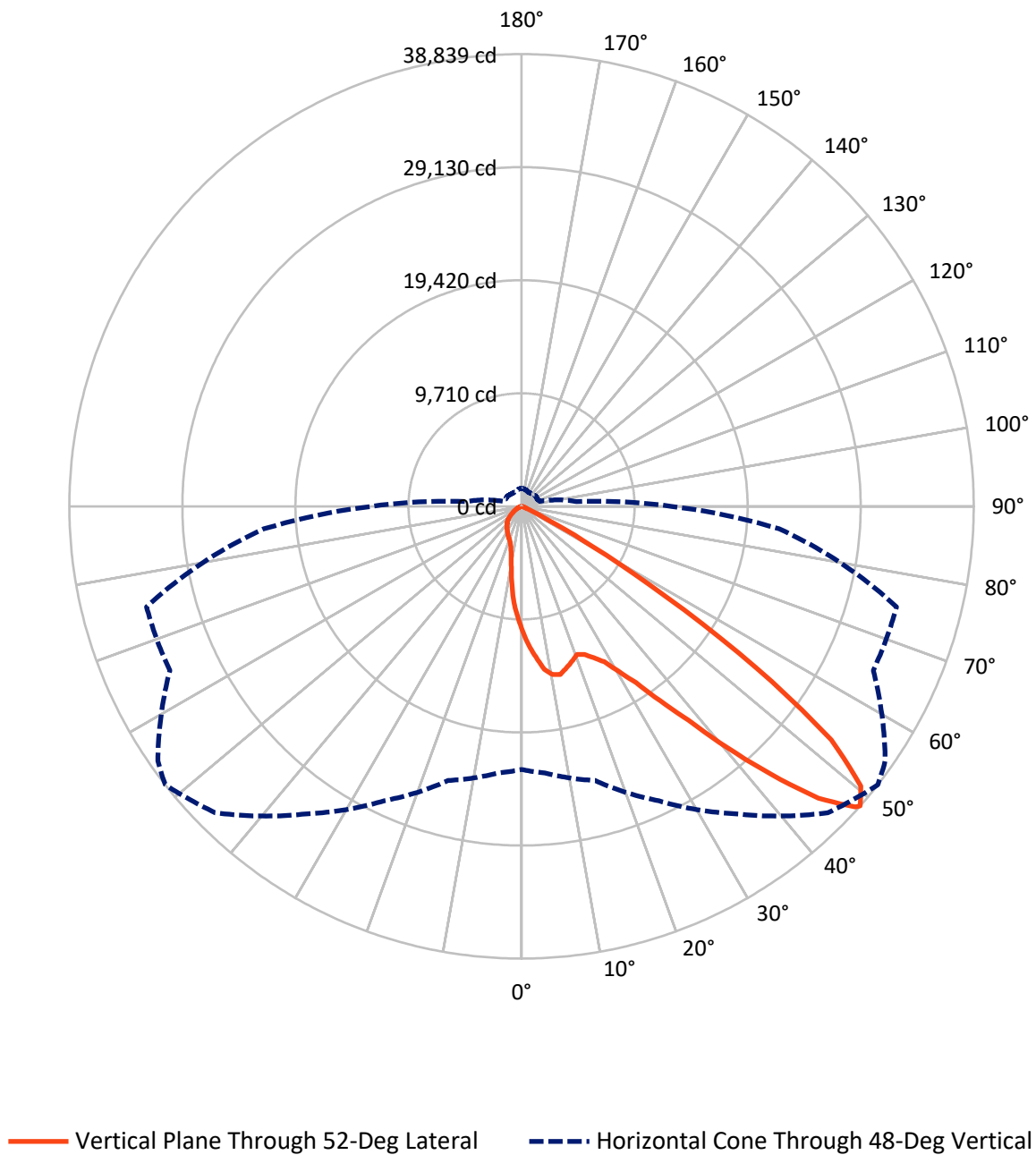


Based on 25 foot mounting height. Maximum calculated value = 23.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4508.7	0.0	4508.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	32521.3	0.0	32521.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	37030.0	0.0	37030.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	978.8	2.6
10°-20°	2557.9	6.9
20°-30°	4367.4	11.8
30°-40°	8042.5	21.7
40°-50°	12490.0	33.7
50°-60°	7516.9	20.3
60°-70°	869.4	2.3
70°-80°	168.3	0.5
80°-90°	38.9	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°	37030.0	100.0
0°-180°	37030.0	100.0

Coefficient of Utilization



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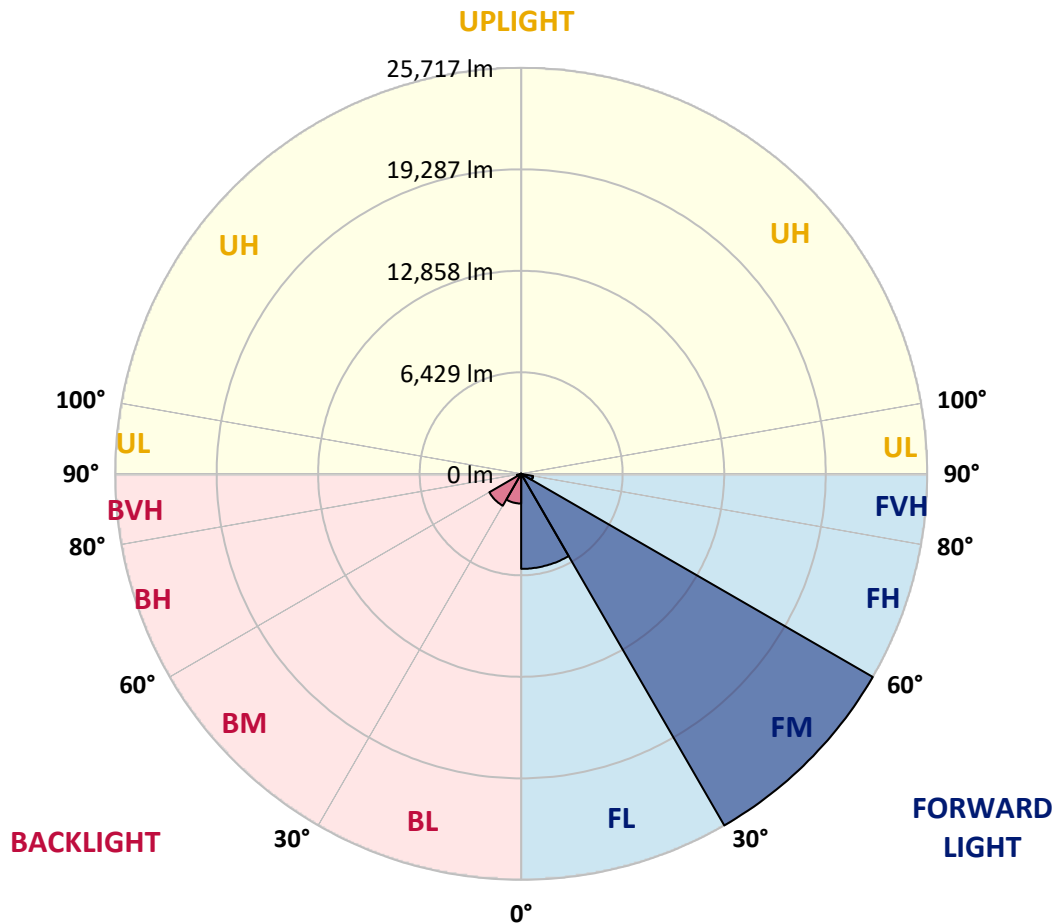
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6020.6	16.3			
FM	(30°-60°)	25716.6	69.4			
FH	(60°-80°)	765.6	2.1			G1/1800
FVH	(80°-90°)	18.5	0.1			G1/100
BL	(0°-30°)	1883.4	5.1	B3/2500		
BM	(30°-60°)	2332.7	6.3	B2/2500		
BH	(60°-80°)	272.1	0.7	B1/500		G1/500
BVH	(80°-90°)	20.4	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10693.6	10693.6	10693.6	10693.6	10693.6	10693.6	10693.6	10693.6	10693.6	10693.6	10693.6
2.5°	12960.9	12664.0	12690.9	12496.6	12383.3	12199.7	11951.4	11902.8	11632.9	11265.8	10893.4
5°	14126.8	14056.7	14148.4	13867.7	13878.5	13576.2	12993.2	13004.0	12383.3	11784.1	11206.5
7.5°	14202.4	14040.5	14132.2	14380.6	14526.3	14472.3	14143.0	13856.9	13268.5	12388.7	11546.5
10°	12717.9	13025.6	13122.8	13533.1	14116.0	14731.4	14693.6	14709.8	14218.6	13068.8	11838.0
12.5°	11827.3	11622.1	11951.4	12199.7	13079.6	14272.6	14817.8	14936.6	14974.3	13727.4	12129.5
15°	11422.4	11422.4	11476.4	11546.5	12183.5	13284.7	14396.8	14742.2	15557.3	14591.1	12588.4
17.5°	11676.1	11665.3	11740.9	11595.1	11832.6	12680.2	14008.1	14402.1	16210.5	15438.6	12950.1
20°	12448.0	12485.8	12437.2	12016.2	12032.4	12669.4	13576.2	14197.0	16653.2	16172.7	13430.5
22.5°	13522.3	13543.8	13268.5	12809.7	12674.8	12987.8	13824.6	14299.6	17009.4	17052.6	13576.2
25°	14763.8	14677.5	14623.5	13975.7	13565.4	13835.3	14386.0	14661.3	17230.8	17808.4	13991.9
27.5°	16485.8	16313.1	15983.8	15406.2	15103.9	14720.6	15114.7	15568.1	17862.3	18866.4	14445.3
30°	19028.3	18877.2	18234.8	17489.9	16696.3	16318.5	16442.6	16690.9	19001.3	20091.8	15044.5
32.5°	22855.6	22537.1	21608.6	20188.9	19109.3	18067.5	18035.1	18299.6	20021.6	21786.8	15757.1
35°	27071.5	26974.3	25608.6	24145.7	22056.7	20448.0	20475.0	20615.4	21975.7	24010.8	16690.9
37.5°	29873.1	30407.5	29538.4	27967.6	26213.2	23913.6	23330.6	23379.2	24658.6	26645.1	18375.2
40°	32037.8	31584.3	31686.9	31319.8	30121.4	28556.0	27265.8	27012.1	27762.5	29560.0	20048.6
42.5°	31093.1	31114.7	31746.3	32615.4	32912.3	32798.9	31481.8	31001.3	30418.3	31946.0	21641.0
45°	28426.4	28982.4	29802.9	32102.5	34121.4	36016.2	35757.1	34958.1	32253.7	33835.3	22558.7
47.5°	24172.7	24151.1	25495.3	28485.8	32971.6	37408.9	38585.7	38024.3	33554.6	33624.8	22369.8
48°	22601.9	22990.5	24377.8	27897.4	32242.9	37203.7	38839.4	38132.2	33333.3	33344.1	22207.8
50°	16707.1	16637.0	18364.4	22682.8	28798.9	34958.1	37770.6	38321.2	33327.9	31924.4	21074.2
52.5°	8825.9	9128.2	10386.0	14261.8	20361.7	28610.0	33317.1	34175.4	32151.1	29603.2	19444.0
55°	3751.7	3390.0	4356.3	6439.9	11454.8	19114.7	24442.6	26353.6	27184.9	26197.0	17009.4
57.5°	1338.7	1462.9	1684.2	2423.7	4815.1	10461.5	14574.9	16059.4	18834.0	19222.7	11589.7
60°	858.3	874.5	944.7	1112.0	1808.4	4032.4	6915.0	8097.2	9354.9	9657.2	5408.9
62.5°	664.0	669.4	701.8	728.7	858.3	1565.5	2596.5	3076.9	3195.7	2747.6	1419.7
65°	556.0	561.4	572.2	572.2	610.0	734.1	906.9	998.6	971.7	960.9	804.3
67.5°	426.5	437.2	458.8	458.8	480.4	448.0	502.0	534.4	604.6	734.1	685.6
70°	334.7	340.1	356.3	367.1	367.1	323.9	361.7	394.1	442.6	545.2	539.8
72.5°	259.1	269.9	280.7	280.7	264.5	221.3	259.1	286.1	318.5	377.9	367.1
75°	199.7	199.7	205.1	167.3	129.6	113.4	156.5	188.9	237.5	248.3	205.1
77.5°	54.0	59.4	54.0	48.6	54.0	81.0	102.6	118.8	151.1	151.1	135.0
80°	0.0	5.4	16.2	32.4	54.0	75.6	91.8	102.6	118.8	129.6	124.2
82.5°	0.0	5.4	16.2	32.4	48.6	59.4	81.0	86.4	97.2	113.4	113.4
85°	0.0	5.4	10.8	21.6	32.4	37.8	37.8	32.4	32.4	27.0	21.6
87.5°	0.0	0.0	5.4	10.8	10.8	16.2	16.2	16.2	16.2	16.2	16.2
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°	10693.6	10693.6	10693.6	10693.6	10693.6	10693.6	10693.6	10693.6	10693.6	10693.6	10693.6
2.5°	10747.6	10580.3	10326.6	9927.1	9543.9	9295.5	9058.0	8793.5	8647.8	8637.0	8556.0
5°	10877.2	10499.3	9894.7	9209.2	8475.0	7843.4	7206.5	6790.8	6418.3	6213.2	6175.4
7.5°	10947.4	10456.1	9479.1	8329.3	7076.9	6045.9	5333.3	4809.7	4604.6	4453.4	4448.0
10°	11093.1	10380.6	8858.3	7163.3	5614.0	4572.2	4081.0	3843.5	3730.1	3686.9	3622.1
12.5°	11201.1	10240.2	8221.3	5964.9	4437.2	3789.5	3573.5	3519.6	3525.0	3546.6	3519.6
15°	11352.2	10116.1	7363.0	4896.1	3724.7	3411.6	3411.6	3422.4	3498.0	3508.8	3503.4
17.5°	11341.4	9873.1	6477.7	4032.4	3292.8	3249.7	3265.9	3368.4	3417.0	3433.2	3395.4
20°	11471.0	9646.4	5565.4	3444.0	3049.9	3114.7	3222.7	3249.7	3309.0	3319.8	3276.7
22.5°	11433.2	9079.6	4717.9	2979.8	2866.4	2990.6	3098.5	3130.9	3114.7	3082.3	3076.9
25°	11363.0	8593.8	3940.6	2672.1	2731.4	2866.4	2969.0	2909.6	2877.2	2882.6	2888.0
27.5°	11238.9	7978.4	3298.2	2456.1	2547.9	2747.6	2742.2	2720.6	2753.0	2726.0	2753.0
30°	11217.3	7363.0	2769.2	2261.8	2413.0	2558.7	2569.5	2607.3	2645.1	2596.5	2645.1
32.5°	11249.7	6688.3	2391.4	2143.0	2332.0	2337.4	2456.1	2493.9	2466.9	2359.0	2369.8
35°	11498.0	6170.0	2116.1	2078.3	2202.4	2207.8	2321.2	2272.6	2153.8	2089.1	2126.9
37.5°	12021.6	5738.2	1986.5	2018.9	2029.7	2099.9	2105.3	2008.1	2018.9	2013.5	2035.1
40°	12690.9	5408.9	1894.7	1964.9	1954.1	2002.7	1808.4	1862.3	1910.9	1927.1	1937.9
42.5°	13149.8	5171.4	1835.4	1878.5	1856.9	1770.6	1662.6	1716.6	1754.4	1813.8	1824.6
45°	13354.9	4982.5	1765.2	1727.4	1727.4	1570.8	1527.7	1538.5	1624.8	1689.6	1678.8
47.5°	13020.2	4798.9	1641.0	1527.7	1565.5	1435.9	1387.3	1387.3	1479.1	1560.1	1543.9
48°	12890.7	4723.3	1646.4	1484.5	1511.5	1414.3	1365.7	1354.9	1457.5	1533.1	1533.1
50°	12248.3	4442.6	1506.1	1365.7	1311.7	1300.9	1268.6	1279.4	1344.1	1414.3	1414.3
52.5°	10995.9	3838.1	1274.0	1171.4	1074.2	1139.0	1155.2	1133.6	1166.0	1230.8	1225.4
55°	9176.8	2947.4	1020.2	971.7	896.1	966.3	998.6	971.7	939.3	987.9	987.9
57.5°	5878.5	1587.0	815.1	825.9	750.3	820.5	847.5	782.7	723.3	761.1	755.7
60°	2650.5	950.1	669.4	653.2	604.6	685.6	728.7	653.2	572.2	599.2	626.2
62.5°	993.3	674.8	507.4	496.6	485.8	561.4	583.0	523.6	442.6	458.8	464.2
65°	728.7	593.8	404.9	367.1	388.7	442.6	431.8	372.5	318.5	318.5	329.3
67.5°	620.8	518.2	329.3	286.1	286.1	291.5	269.9	237.5	221.3	232.1	242.9
70°	485.8	410.3	259.1	221.3	199.7	178.1	156.5	151.1	135.0	151.1	145.7
72.5°	313.1	275.3	199.7	167.3	151.1	124.2	102.6	97.2	81.0	75.6	75.6
75°	167.3	167.3	156.5	135.0	118.8	97.2	81.0	64.8	43.2	32.4	32.4
77.5°	118.8	129.6	140.4	129.6	108.0	81.0	64.8	43.2	21.6	10.8	10.8
80°	113.4	129.6	140.4	124.2	108.0	81.0	59.4	32.4	16.2	5.4	5.4
82.5°	102.6	118.8	129.6	113.4	97.2	70.2	54.0	32.4	16.2	5.4	5.4
85°	21.6	27.0	32.4	32.4	37.8	48.6	37.8	27.0	10.8	5.4	5.4
87.5°	16.2	16.2	16.2	16.2	16.2	16.2	10.8	10.8	5.4	5.4	5.4
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)