

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: P651057

Luminaire Tested: **GALN-SA8C-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651057
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-SA8C-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA 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: 35616.4 lumens
Efficiency: N/A
Efficacy: 83.0 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

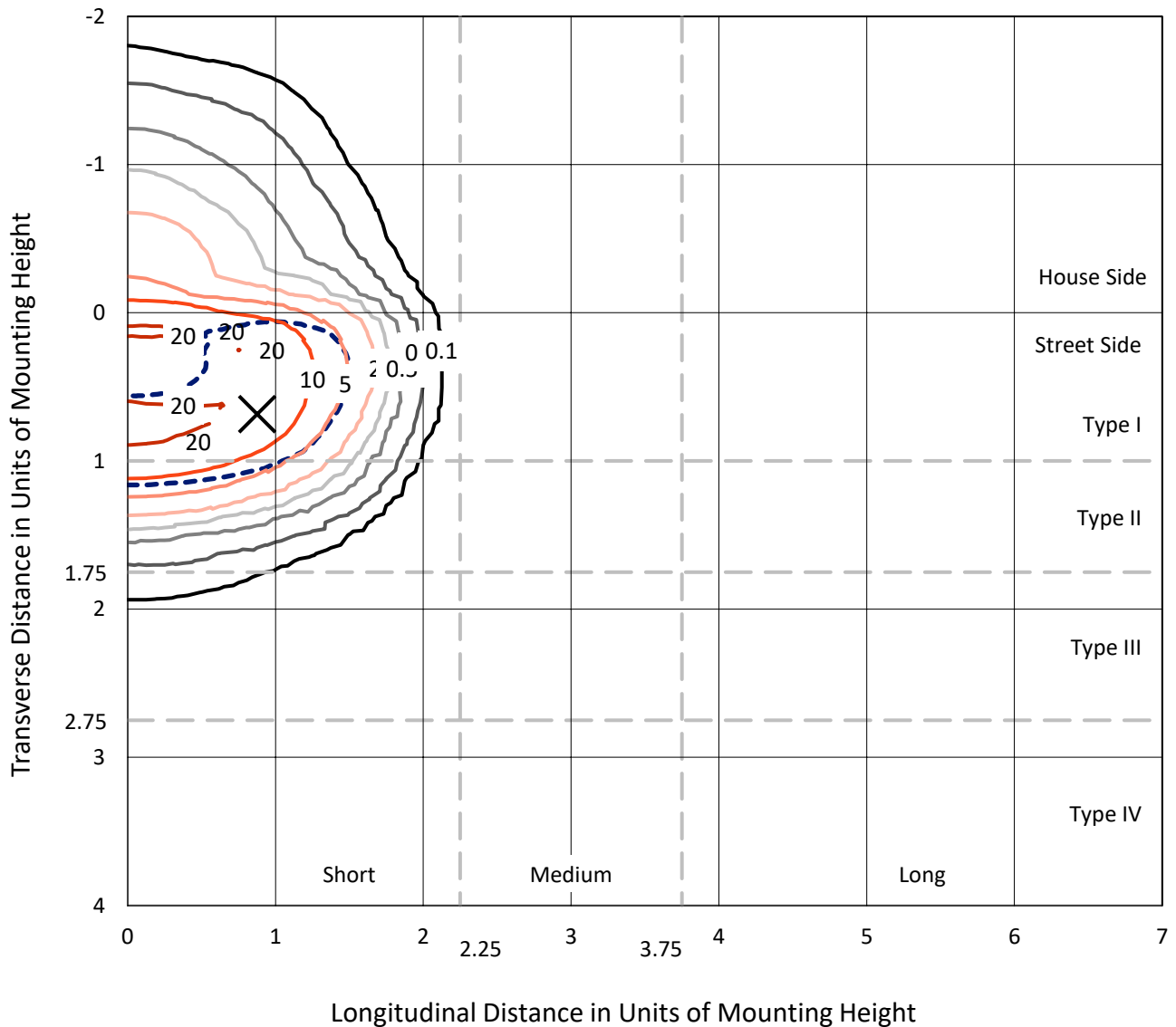
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

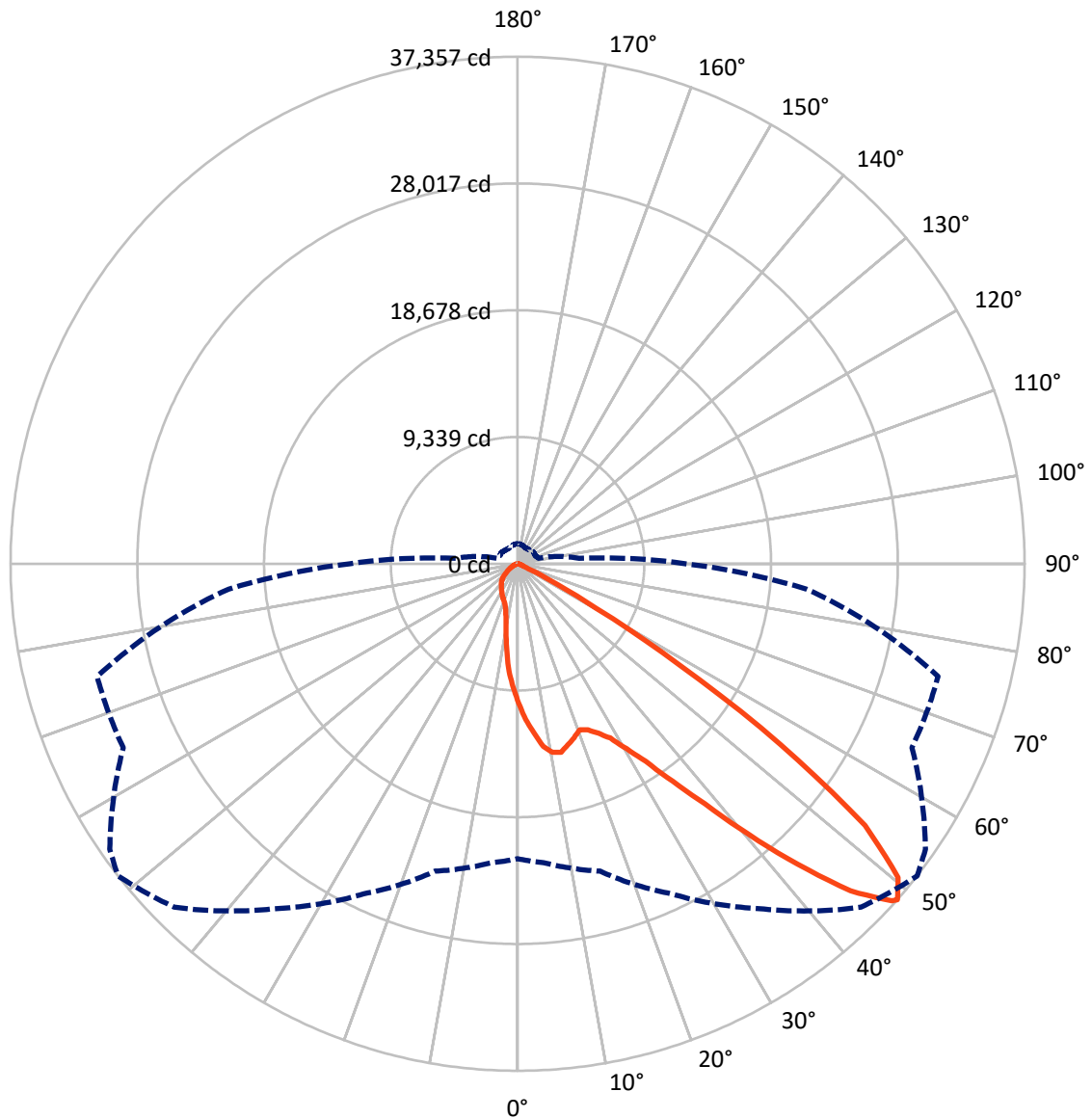
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4336.6	0.0	4336.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	31279.8	0.0	31279.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	35616.4	0.0	35616.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	941.4	2.6
10°-20°	2460.2	6.9
20°-30°	4200.6	11.8
30°-40°	7735.5	21.7
40°-50°	12013.2	33.7
50°-60°	7229.9	20.3
60°-70°	836.2	2.3
70°-80°	161.9	0.5
80°-90°	37.4	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°	35616.4	100.0
0°-180°	35616.4	100.0

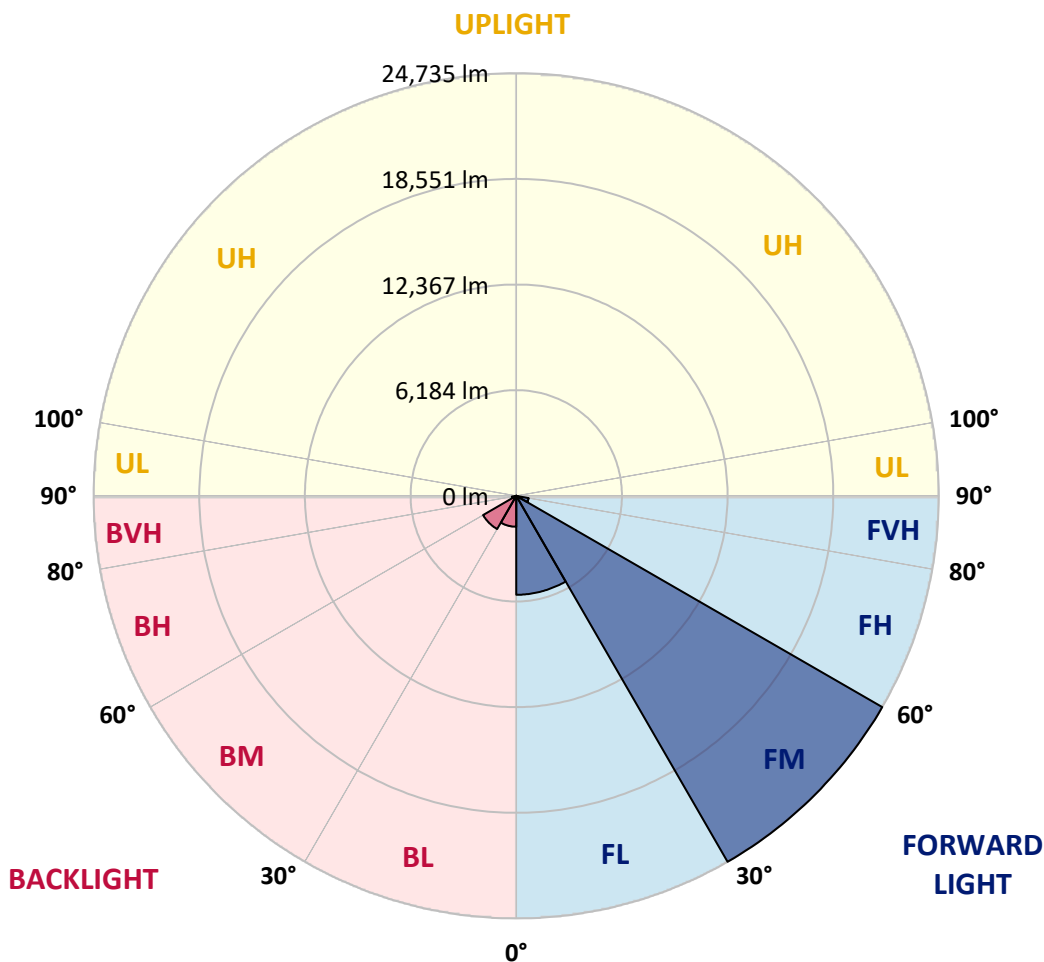


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5790.8	16.3			
FM (30°-60°)	24734.9	69.4			
FH (60°-80°)	736.4	2.1			G1/1800
FVH (80°-90°)	17.8	0.1			G1/100
BL (0°-30°)	1811.5	5.1	B3/2500		
BM (30°-60°)	2243.7	6.3	B2/2500		
BH (60°-80°)	261.7	0.7	B1/500		G1/500
BVH (80°-90°)	19.6	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°	10285.4	10285.4	10285.4	10285.4	10285.4	10285.4	10285.4	10285.4	10285.4	10285.4	10285.4
2.5°	12466.1	12180.5	12206.4	12019.6	11910.5	11734.0	11495.1	11448.4	11188.8	10835.8	10477.5
5°	13587.5	13520.1	13608.3	13338.3	13348.7	13058.0	12497.2	12507.6	11910.5	11334.2	10778.7
7.5°	13660.2	13504.4	13592.7	13831.6	13971.8	13919.8	13603.1	13327.9	12762.0	11915.7	11105.7
10°	12232.4	12528.4	12621.8	13016.4	13577.2	14169.1	14132.7	14148.3	13675.8	12569.9	11386.1
12.5°	11375.7	11178.4	11495.1	11734.0	12580.3	13727.7	14252.1	14366.4	14402.7	13203.4	11666.5
15°	10986.3	10986.3	11038.3	11105.7	11718.4	12777.6	13847.1	14179.4	14963.4	14034.0	12107.8
17.5°	11230.4	11219.9	11292.7	11152.5	11380.9	12196.1	13473.3	13852.4	15591.6	14849.2	12455.7
20°	11972.8	12009.1	11962.5	11557.4	11573.0	12185.7	13058.0	13655.1	16017.4	15555.3	12917.8
22.5°	13006.1	13026.8	12762.0	12320.6	12190.9	12492.0	13296.8	13753.7	16360.1	16401.6	13058.0
25°	14200.2	14117.1	14065.2	13442.1	13047.6	13307.1	13836.7	14101.6	16573.0	17128.5	13457.8
27.5°	15856.5	15690.3	15373.6	14818.1	14527.3	14158.7	14537.7	14973.8	17180.5	18146.2	13893.9
30°	18301.9	18156.5	17538.6	16822.2	16059.0	15695.5	15814.9	16053.8	18275.9	19324.8	14470.2
32.5°	21983.1	21676.7	20783.7	19418.2	18379.8	17377.8	17346.6	17601.0	19257.2	20955.0	15155.5
35°	26038.0	25944.6	24631.0	23224.0	21214.6	19667.4	19693.4	19828.3	21136.8	23094.1	16053.8
37.5°	28732.7	29246.7	28410.7	26899.9	25212.5	23000.7	22440.0	22486.7	23717.2	25627.9	17673.7
40°	30814.7	30378.6	30477.3	30124.1	28971.5	27465.8	26224.9	25980.9	26702.6	28431.5	19283.2
42.5°	29906.1	29926.8	30534.4	31370.2	31655.8	31546.8	30280.0	29817.8	29257.0	30726.4	20814.8
45°	27341.2	27876.0	28665.2	30877.0	32818.8	34641.2	34392.0	33623.6	31022.4	32543.7	21697.5
47.5°	23249.9	23229.2	24522.0	27398.4	31712.9	35980.8	37112.7	36572.7	32273.6	32341.2	21515.8
48°	21739.0	22112.8	23447.2	26832.4	31012.0	35783.5	37356.6	36676.5	32060.8	32071.2	21360.0
50°	16069.3	16001.9	17663.3	21816.9	27699.5	33623.6	36328.6	36858.3	32055.6	30705.7	20269.7
52.5°	8489.0	8779.7	9989.5	13717.4	19584.4	27517.8	32045.2	32870.7	30923.7	28473.1	18701.7
55°	3608.5	3260.6	4189.9	6194.0	11017.5	18385.0	23509.5	25347.5	26147.0	25196.9	16360.1
57.5°	1287.7	1407.1	1619.9	2331.3	4631.3	10062.1	14018.5	15446.3	18115.0	18488.8	11147.3
60°	825.5	841.1	908.6	1069.6	1739.4	3878.4	6651.0	7788.1	8997.8	9288.5	5202.4
62.5°	638.7	643.8	675.0	700.9	825.5	1505.7	2497.3	2959.5	3073.7	2642.8	1365.5
65°	534.8	540.0	550.4	550.4	586.7	706.1	872.3	960.5	934.6	924.2	773.6
67.5°	410.2	420.6	441.4	441.4	462.1	430.9	482.8	514.0	581.5	706.1	659.4
70°	321.9	327.1	342.7	353.1	353.1	311.5	347.8	379.0	425.7	524.4	519.2
72.5°	249.2	259.6	270.0	270.0	254.4	212.9	249.2	275.2	306.3	363.5	353.1
75°	192.1	192.1	197.3	161.0	124.6	109.0	150.5	181.7	228.4	238.8	197.3
77.5°	51.9	57.1	51.9	46.8	51.9	77.9	98.6	114.2	145.4	145.4	129.8
80°	0.0	5.2	15.6	31.1	51.9	72.7	88.3	98.6	114.2	124.6	119.4
82.5°	0.0	5.2	15.6	31.1	46.8	57.1	77.9	83.1	93.4	109.0	109.0
85°	0.0	5.2	10.3	20.8	31.1	36.3	36.3	31.1	31.1	26.0	20.8
87.5°	0.0	0.0	5.2	10.3	10.3	15.6	15.6	15.6	15.6	15.6	15.6
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°	10285.4	10285.4	10285.4	10285.4	10285.4	10285.4	10285.4	10285.4	10285.4	10285.4	10285.4
2.5°	10337.3	10176.4	9932.4	9548.1	9179.5	8940.7	8712.3	8457.9	8317.7	8307.2	8229.4
5°	10462.0	10098.5	9517.0	8857.6	8151.5	7544.0	6931.4	6531.5	6173.4	5976.1	5939.6
7.5°	10529.4	10056.9	9117.2	8011.3	6806.7	5815.1	5129.8	4626.1	4428.8	4283.5	4278.3
10°	10669.6	9984.3	8520.1	6889.8	5399.7	4397.7	3925.2	3696.7	3587.7	3546.2	3483.8
12.5°	10773.5	9849.3	7907.5	5737.2	4267.8	3644.8	3437.1	3385.2	3390.4	3411.2	3385.2
15°	10918.9	9729.9	7081.9	4709.2	3582.5	3281.3	3281.3	3291.8	3364.4	3374.8	3369.6
17.5°	10908.4	9496.2	6230.5	3878.4	3167.1	3125.6	3141.2	3239.9	3286.5	3302.1	3265.8
20°	11033.1	9278.2	5353.0	3312.5	2933.5	2995.8	3099.7	3125.6	3182.7	3193.1	3151.6
22.5°	10996.7	8733.0	4537.9	2866.0	2757.0	2876.4	2980.3	3011.4	2995.8	2964.6	2959.5
25°	10929.2	8265.7	3790.2	2570.1	2627.2	2757.0	2855.6	2798.5	2767.3	2772.5	2777.7
27.5°	10809.8	7673.8	3172.3	2362.4	2450.7	2642.8	2637.5	2616.8	2648.0	2622.0	2648.0
30°	10789.0	7081.9	2663.5	2175.5	2320.8	2461.0	2471.4	2507.8	2544.1	2497.3	2544.1
32.5°	10820.2	6432.9	2300.1	2061.2	2242.9	2248.2	2362.4	2398.7	2372.8	2268.9	2279.3
35°	11059.0	5934.5	2035.3	1999.0	2118.3	2123.5	2232.6	2185.8	2071.6	2009.3	2045.6
37.5°	11562.7	5519.1	1910.7	1941.8	1952.2	2019.7	2024.9	1931.4	1941.8	1936.7	1957.4
40°	12206.4	5202.4	1822.4	1889.9	1879.6	1926.2	1739.4	1791.2	1838.0	1853.6	1863.9
42.5°	12647.8	4973.9	1765.3	1806.8	1786.0	1703.0	1599.2	1651.1	1687.4	1744.5	1754.9
45°	12845.1	4792.3	1697.8	1661.5	1661.5	1510.9	1469.3	1479.7	1562.8	1625.1	1614.7
47.5°	12523.2	4615.7	1578.4	1469.3	1505.7	1381.1	1334.3	1334.3	1422.6	1500.5	1485.0
48°	12398.5	4543.0	1583.6	1427.8	1453.8	1360.3	1313.6	1303.2	1401.9	1474.5	1474.5
50°	11780.7	4273.0	1448.5	1313.6	1261.7	1251.2	1220.1	1230.6	1292.8	1360.3	1360.3
52.5°	10576.2	3691.6	1225.3	1126.7	1033.3	1095.5	1111.1	1090.4	1121.5	1183.8	1178.6
55°	8826.5	2834.8	981.3	934.6	861.9	929.4	960.5	934.6	903.4	950.2	950.2
57.5°	5654.1	1526.4	784.0	794.4	721.7	789.2	815.2	752.9	695.8	732.1	726.9
60°	2549.3	913.8	643.8	628.2	581.5	659.4	700.9	628.2	550.4	576.3	602.2
62.5°	955.3	649.0	488.0	477.7	467.3	540.0	560.8	503.6	425.7	441.4	446.5
65°	700.9	571.1	389.4	353.1	373.8	425.7	415.4	358.3	306.3	306.3	316.7
67.5°	597.1	498.5	316.7	275.2	275.2	280.4	259.6	228.4	212.9	223.3	233.6
70°	467.3	394.6	249.2	212.9	192.1	171.3	150.5	145.4	129.8	145.4	140.2
72.5°	301.2	264.8	192.1	161.0	145.4	119.4	98.6	93.4	77.9	72.7	72.7
75°	161.0	161.0	150.5	129.8	114.2	93.4	77.9	62.3	41.5	31.1	31.1
77.5°	114.2	124.6	135.0	124.6	103.9	77.9	62.3	41.5	20.8	10.3	10.3
80°	109.0	124.6	135.0	119.4	103.9	77.9	57.1	31.1	15.6	5.2	5.2
82.5°	98.6	114.2	124.6	109.0	93.4	67.5	51.9	31.1	15.6	5.2	5.2
85°	20.8	26.0	31.1	31.1	36.3	46.8	36.3	26.0	10.3	5.2	5.2
87.5°	15.6	15.6	15.6	15.6	15.6	15.6	10.3	10.3	5.2	5.2	5.2
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)