

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: P648396

Luminaire Tested: **GALN-SA4B-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10525.1 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

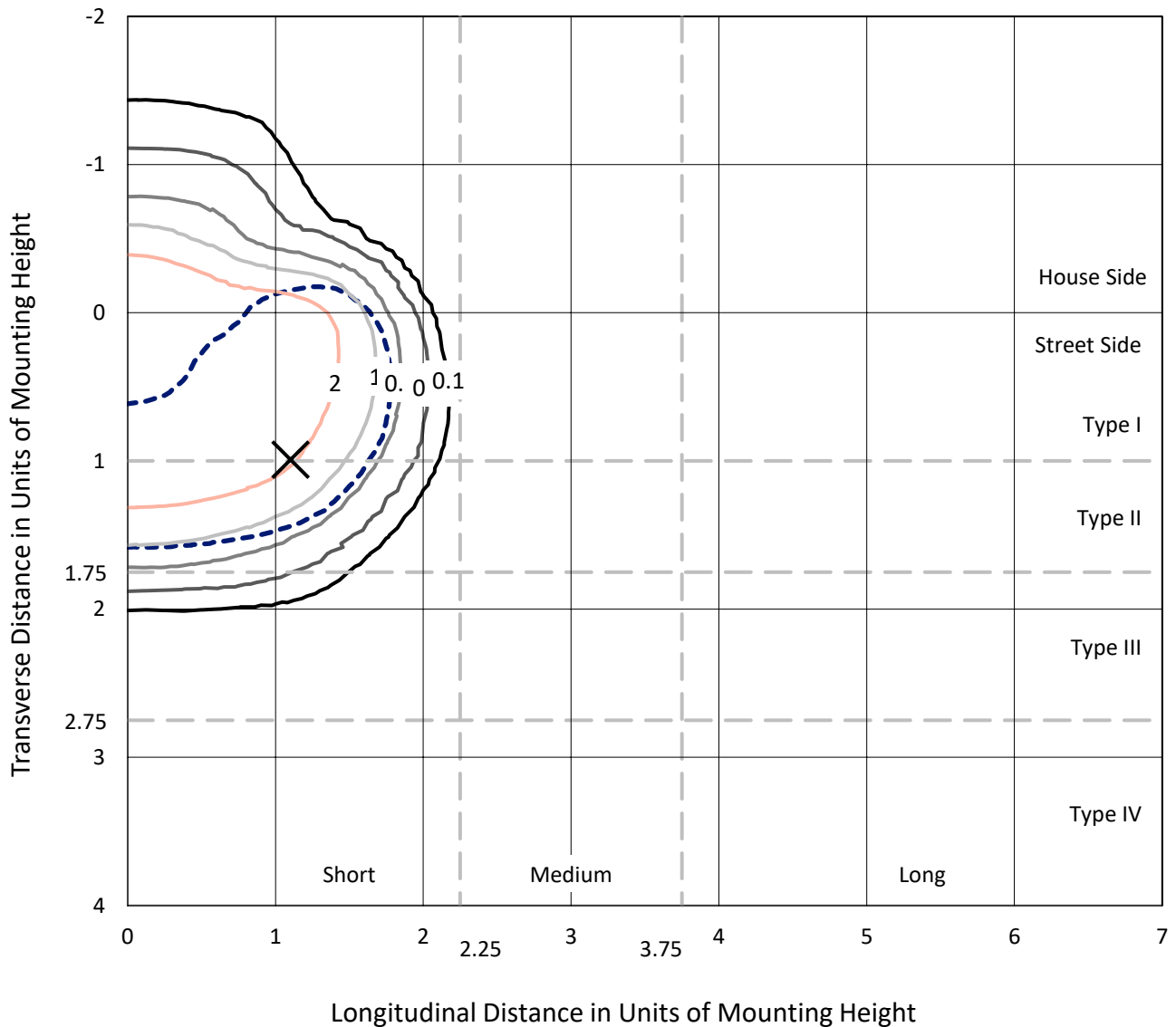
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

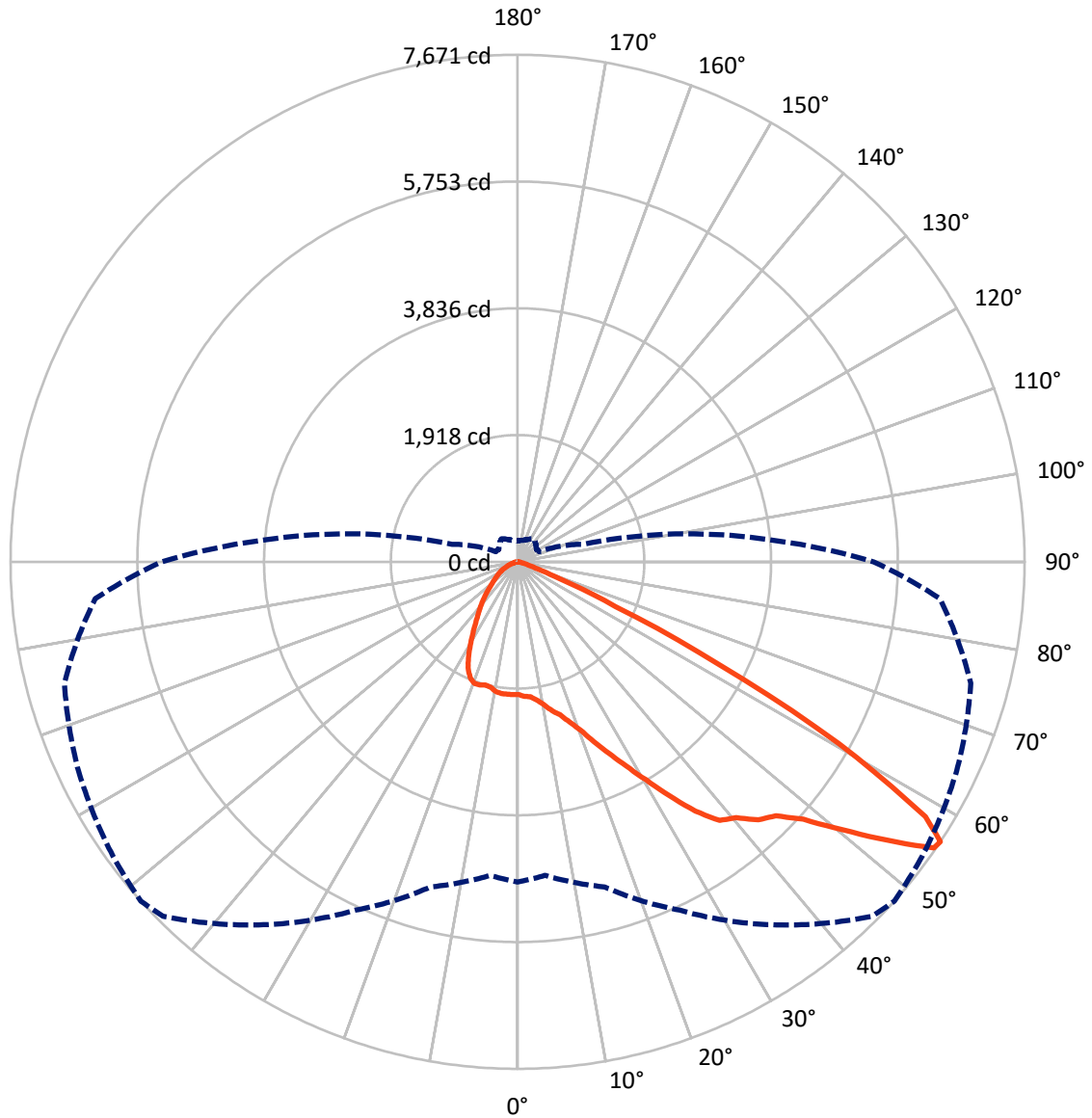
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2289.0	0.0	2289.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8236.1	0.0	8236.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	10525.1	0.0	10525.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	1.9
10°-20°	625.8	5.9
20°-30°	1135.1	10.8
30°-40°	1783.0	16.9
40°-50°	2601.1	24.7
50°-60°	3133.9	29.8
60°-70°	917.6	8.7
70°-80°	116.4	1.1
80°-90°	16.3	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°	10525.1	100.0
0°-180°	10525.1	100.0

Coefficient of Utilization



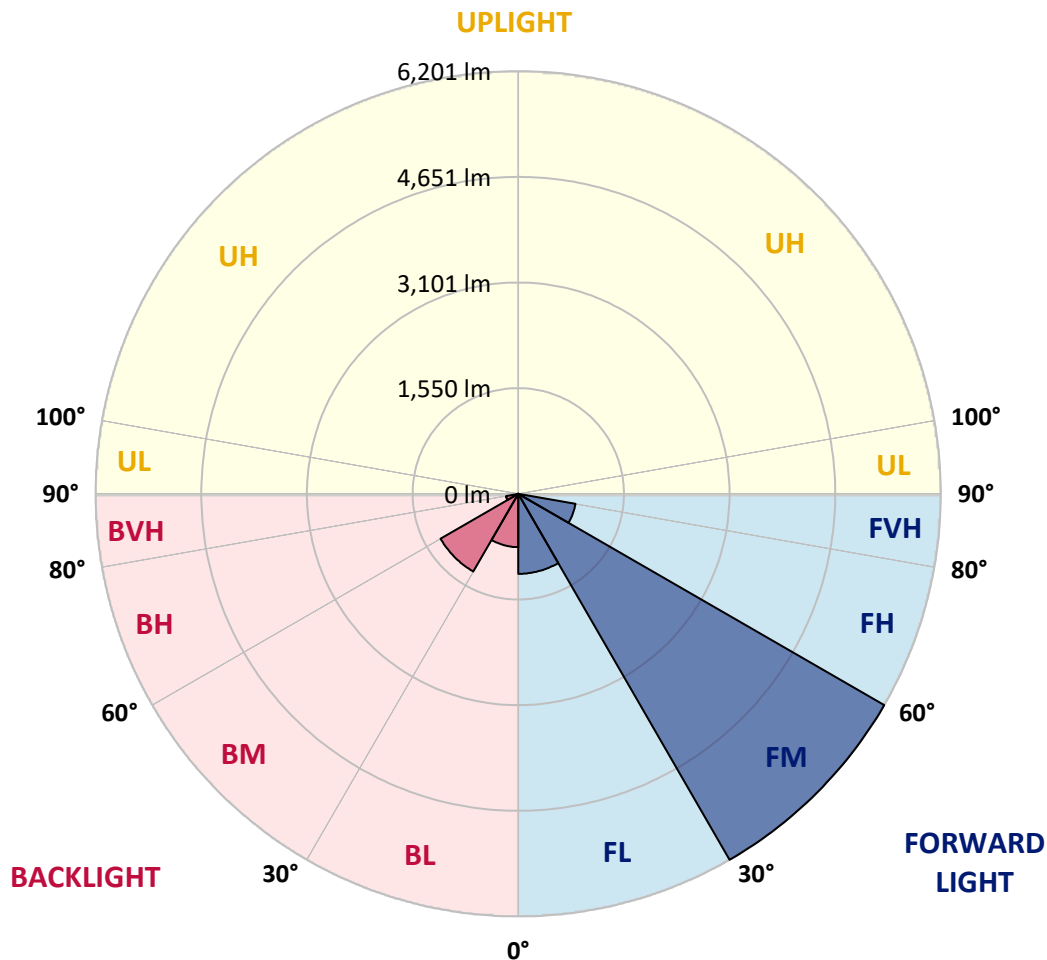
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1174.4	11.2			
FM (30°-60°)	6201.4	58.9			
FH (60°-80°)	852.1	8.1			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	782.4	7.4	B2/1000		
BM (30°-60°)	1316.6	12.5	B2/2500		
BH (60°-80°)	181.9	1.7	B1/500		G1/500
BVH (80°-90°)	8.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3
2.5°	2046.7	2037.1	2037.1	2021.8	2039.0	2031.4	2037.1	2017.9	2037.1	2008.4	2031.4
5°	2056.3	2058.2	2050.5	2060.2	2060.2	2071.6	2052.5	2069.7	2079.3	2058.2	2048.6
7.5°	2106.1	2110.0	2108.1	2100.4	2115.7	2113.8	2111.8	2098.4	2102.3	2094.6	2083.1
10°	2203.8	2202.0	2211.5	2192.3	2180.9	2194.3	2198.1	2177.1	2161.7	2155.9	2119.5
12.5°	2345.6	2322.7	2309.2	2290.1	2295.8	2276.7	2311.2	2274.8	2267.1	2232.6	2196.2
15°	2460.7	2456.8	2458.7	2428.1	2393.6	2401.2	2401.2	2382.0	2370.6	2328.4	2276.7
17.5°	2696.3	2615.8	2633.2	2594.8	2566.0	2564.2	2546.9	2550.7	2520.1	2431.9	2353.3
20°	2880.3	2845.8	2819.0	2753.9	2709.8	2723.2	2715.5	2696.3	2686.8	2571.8	2460.7
22.5°	3045.2	3056.7	3012.6	2995.3	2934.0	2939.8	2955.0	2937.8	2865.0	2746.2	2581.4
25°	3277.0	3263.6	3204.2	3183.1	3125.7	3146.7	3206.2	3192.7	3146.7	2932.1	2675.3
27.5°	3551.1	3505.1	3516.6	3420.8	3365.2	3424.6	3495.5	3562.6	3432.3	3150.6	2786.5
30°	3744.6	3696.7	3692.9	3689.0	3675.6	3744.6	3827.1	3888.4	3783.0	3369.0	2970.4
32.5°	3840.5	3852.0	3884.5	3873.0	3989.9	4131.7	4217.9	4306.1	4173.9	3725.4	3213.8
35°	4095.3	4022.5	4095.3	4103.0	4223.7	4524.6	4633.9	4844.7	4812.1	4229.5	3510.8
37.5°	4244.8	4239.1	4248.6	4321.5	4438.4	4810.1	4965.4	5128.3	5066.9	4532.2	3880.7
40°	4492.0	4507.3	4505.5	4561.1	4689.4	5024.7	5088.0	5220.3	5226.0	4951.9	4425.0
42.5°	4888.7	4827.4	4787.2	4844.7	5024.7	5210.7	5337.2	5310.3	5500.0	5461.7	5124.4
45°	5245.2	5281.6	5222.1	5318.0	5383.1	5482.8	5479.0	5536.4	5777.9	5960.0	5651.5
47.5°	5578.6	5601.6	5630.4	5695.5	5837.3	5852.7	5820.1	5795.1	6128.6	6316.5	6059.6
50°	5777.9	5799.0	5933.2	6050.1	6314.5	6349.0	6368.1	6305.0	6531.1	6552.1	6444.8
52.5°	5724.3	5747.3	5935.1	6320.3	6741.9	7058.0	7000.6	6893.3	6879.8	6962.3	6801.3
55°	5249.0	5227.9	5486.6	6086.5	6876.0	7634.9	7642.5	7529.5	7313.0	7257.4	6747.6
56°	4844.7	4762.2	5091.8	5816.3	6703.6	7585.1	7671.3	7550.6	7347.4	7098.3	6416.1
57.5°	3968.9	4047.4	4375.1	4974.9	6107.6	7226.7	7276.6	7247.8	7094.4	6676.7	5645.7
60°	2188.5	2326.5	2615.8	3349.8	4348.3	5546.1	5586.3	5820.1	5848.9	5112.9	3884.5
62.5°	929.4	914.2	1215.0	1755.4	2476.0	3348.0	3422.6	3662.2	3706.3	2947.4	1949.0
65°	377.6	398.6	550.0	883.5	1308.9	1525.4	1630.8	1709.4	1855.1	1216.9	718.6
67.5°	249.2	247.2	323.8	504.0	705.2	680.3	680.3	718.6	665.0	496.3	310.5
70°	178.2	184.0	231.8	348.7	438.9	325.8	312.3	298.9	339.2	327.7	251.0
72.5°	116.9	124.6	155.2	208.9	228.1	178.2	178.2	214.6	279.8	264.5	205.1
75°	76.7	78.5	95.8	120.7	113.1	92.0	101.6	143.8	203.1	195.4	145.6
77.5°	51.8	53.6	65.1	78.5	63.3	51.8	55.6	72.8	99.7	99.7	76.7
80°	19.2	21.1	26.9	24.9	28.7	36.4	40.2	49.8	59.4	59.4	51.8
82.5°	0.0	1.9	5.7	13.4	21.1	28.7	32.6	38.4	44.1	49.8	47.9
85°	0.0	1.9	5.7	9.6	15.3	17.2	19.2	13.4	11.5	11.5	9.6
87.5°	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	3.8	1.9	1.9
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°	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3	2010.3
2.5°	2010.3	2008.4	2008.4	2002.6	2014.1	2008.4	2012.2	2010.3	1985.4	2004.6	1991.2
5°	2031.4	2044.8	2023.7	2019.9	2004.6	2010.3	2010.3	1991.2	2008.4	2006.4	2002.6
7.5°	2085.1	2062.0	2039.0	2016.1	2012.2	2006.4	1985.4	1977.7	1991.2	1975.8	1998.8
10°	2108.1	2111.8	2077.4	2046.7	2017.9	1977.7	1949.0	1931.7	1910.7	1933.6	1947.1
12.5°	2213.5	2175.1	2115.7	2067.8	1970.0	1929.8	1901.0	1893.4	1929.8	1937.5	1924.1
15°	2249.9	2244.1	2167.4	2060.2	1958.5	1910.7	1916.4	1901.0	1904.9	1885.7	1889.5
17.5°	2324.6	2259.4	2169.4	2035.2	1956.6	1945.1	1910.7	1849.3	1814.8	1799.5	1812.9
20°	2407.0	2343.8	2213.5	2044.8	1973.9	1943.2	1830.2	1755.4	1684.5	1646.2	1648.1
22.5°	2479.8	2401.2	2194.3	2048.6	1989.2	1862.8	1726.7	1579.1	1491.0	1431.6	1433.4
25°	2568.0	2456.8	2202.0	2056.3	1949.0	1734.3	1538.8	1395.1	1289.8	1249.5	1262.9
27.5°	2617.8	2491.3	2244.1	2073.5	1843.6	1552.3	1341.5	1207.3	1146.0	1126.8	1124.9
30°	2767.3	2568.0	2295.8	2039.0	1667.2	1356.8	1161.3	1078.9	1019.5	1002.2	1006.1
32.5°	2989.6	2707.8	2362.9	1949.0	1487.2	1182.4	1044.4	983.1	927.5	895.0	891.1
35°	3175.5	2947.4	2433.8	1809.0	1278.2	1048.3	962.0	885.3	801.1	764.7	755.0
37.5°	3530.0	3217.7	2418.5	1598.3	1078.9	948.6	873.9	779.9	707.1	657.3	651.6
40°	4001.4	3533.8	2343.8	1341.5	931.4	860.4	779.9	689.9	599.9	557.7	553.8
42.5°	4574.4	3921.0	2207.7	1080.9	783.8	772.3	699.5	596.0	515.5	484.8	486.8
45°	5040.1	4252.5	2069.7	868.1	674.6	686.1	622.8	525.1	469.5	444.6	444.6
47.5°	5454.1	4476.7	1920.2	716.8	573.0	599.9	544.3	486.8	438.9	419.7	415.9
50°	5852.7	4704.7	1770.8	580.7	488.7	515.5	509.7	463.8	425.4	402.5	404.3
52.5°	6101.8	4741.1	1581.0	475.3	427.4	458.1	477.2	435.0	392.8	379.4	375.6
55°	5797.1	4271.7	1226.5	391.0	362.2	402.5	438.9	391.0	358.4	335.4	333.5
56°	5387.0	3819.4	1025.3	360.3	343.0	387.1	425.4	373.7	337.3	323.8	314.3
57.5°	4561.1	3125.7	757.0	320.0	318.1	360.3	404.3	356.4	314.3	302.8	302.8
60°	2843.9	1759.2	458.1	268.3	275.9	320.0	364.1	318.1	279.8	279.8	285.6
62.5°	1295.5	732.0	277.9	228.1	237.6	275.9	323.8	287.4	266.4	287.4	291.3
65°	440.8	316.2	201.2	182.0	187.8	228.1	277.9	291.3	289.4	302.8	310.5
67.5°	247.2	203.1	168.7	151.4	147.6	168.7	228.1	291.3	279.8	274.0	277.9
70°	208.9	172.5	149.5	134.1	128.4	136.1	176.3	220.4	197.4	191.7	187.8
72.5°	168.7	143.8	130.3	120.7	103.5	88.2	80.5	84.3	93.9	99.7	109.2
75°	118.8	109.2	109.2	97.7	74.8	55.6	44.1	36.4	24.9	17.2	19.2
77.5°	67.1	67.1	69.0	59.4	47.9	36.4	26.9	19.2	9.6	3.8	1.9
80°	46.0	49.8	53.6	47.9	40.2	32.6	23.0	13.4	5.7	0.0	0.0
82.5°	46.0	51.8	55.6	47.9	40.2	30.7	23.0	13.4	5.7	1.9	0.0
85°	9.6	11.5	13.4	15.3	23.0	23.0	17.2	11.5	5.7	1.9	0.0
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	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)