

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: P646907

Luminaire Tested: **GALN-SA4C-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19136.5 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

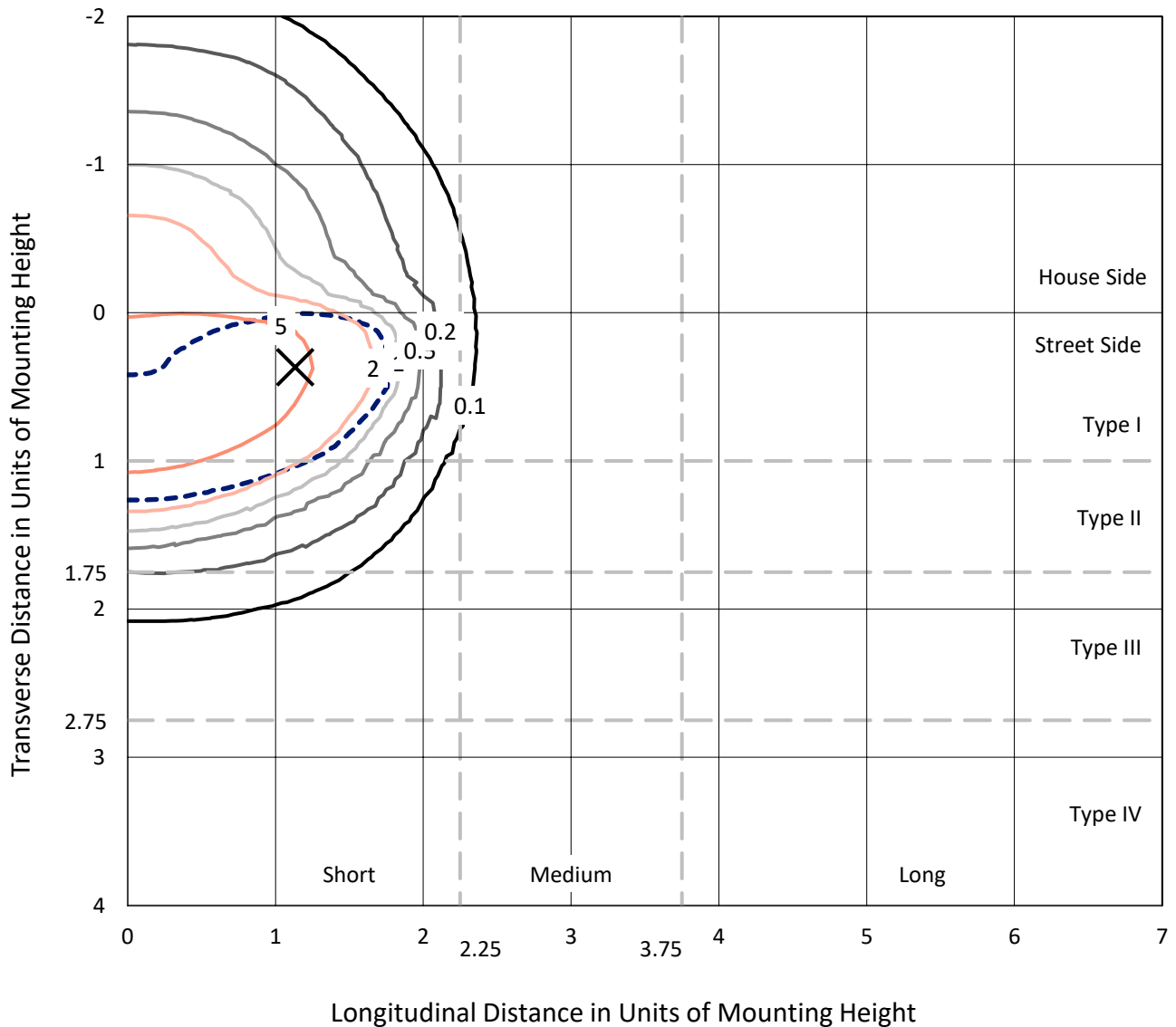
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

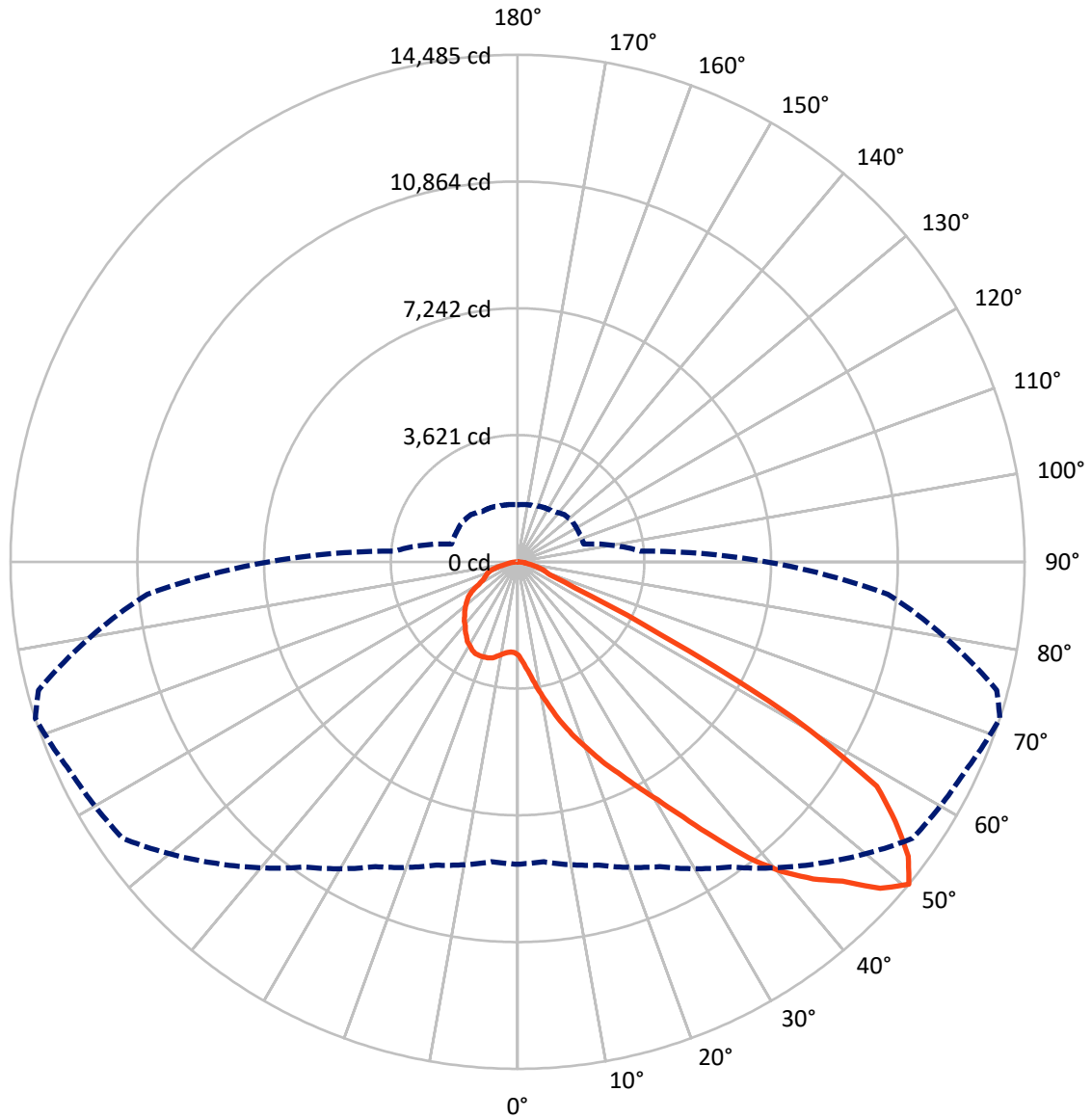
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4384.3	0.0	4384.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14752.2	0.0	14752.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	19136.5	0.0	19136.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.3	1.6
10°-20°	1171.4	6.1
20°-30°	2271.3	11.9
30°-40°	3762.7	19.7
40°-50°	5264.9	27.5
50°-60°	4441.6	23.2
60°-70°	1353.8	7.1
70°-80°	475.0	2.5
80°-90°	82.6	0.4
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°	19136.5	100.0
0°-180°	19136.5	100.0

Coefficient of Utilization

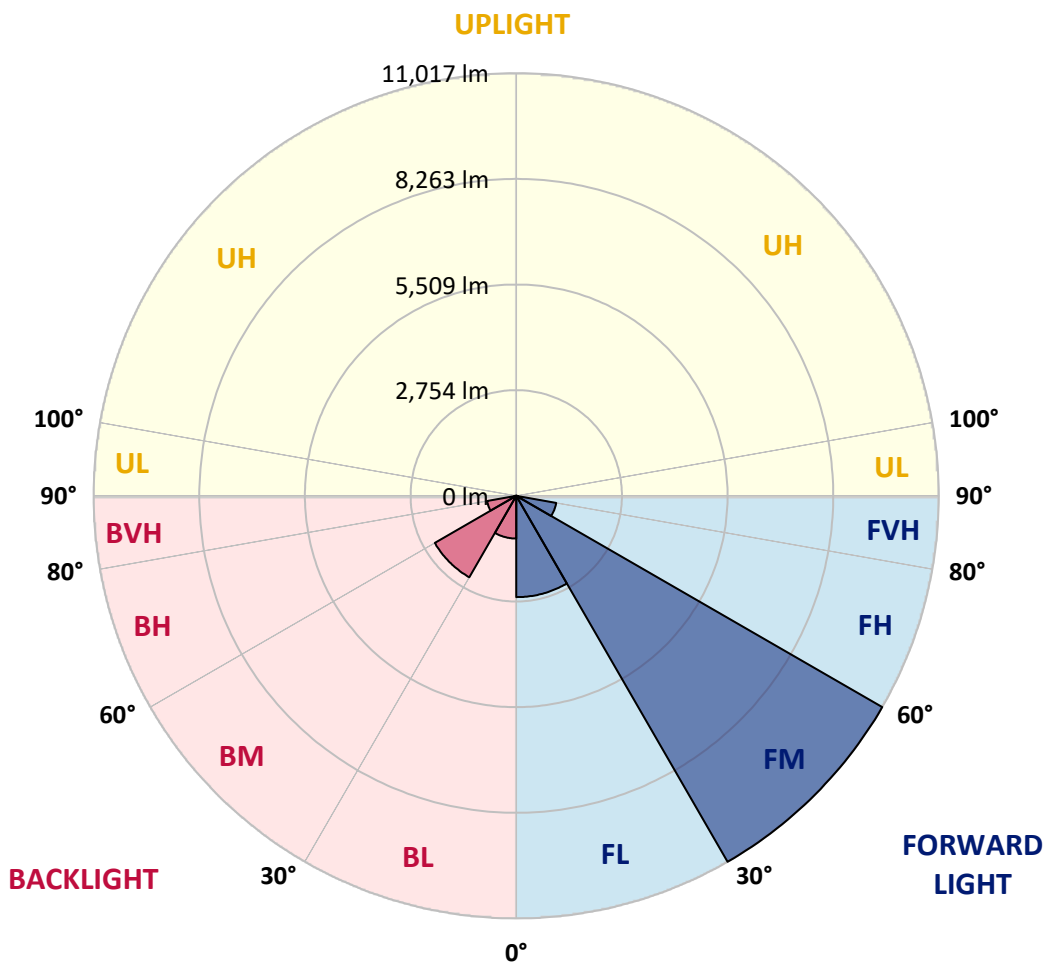


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2641.5	13.8			
FM (30°-60°)	11017.4	57.6			
FH (60°-80°)	1056.3	5.5			G1/1800
FVH (80°-90°)	37.0	0.2			G1/100
BL (0°-30°)	1114.5	5.8	B3/2500		
BM (30°-60°)	2451.8	12.8	B2/2500		
BH (60°-80°)	772.4	4.0	B2/1000		G2/1000
BVH (80°-90°)	45.6	0.2			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°	72°	75°	85°
0°	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0
2.5°	3426.5	3405.1	3341.2	3319.9	3244.1	3106.8	3059.4	2919.7	2860.5	2806.0	2742.1
5°	4333.4	4233.9	4226.8	4106.1	3930.8	3829.0	3525.9	3322.3	3135.2	3040.5	2865.2
7.5°	4911.1	4913.6	4913.6	4814.1	4674.4	4416.3	4143.9	3776.9	3495.2	3355.4	3057.1
10°	5460.6	5413.2	5387.1	5377.6	5283.0	5031.9	4740.7	4286.1	3900.0	3736.6	3201.5
12.5°	5848.9	5808.6	5867.8	5837.0	5768.4	5604.9	5330.3	4811.7	4328.7	4108.4	3433.5
15°	6033.6	6062.0	6109.4	6194.6	6163.9	6102.2	5799.1	5351.6	4790.4	4541.8	3639.5
17.5°	6317.7	6239.6	6296.4	6403.0	6488.3	6459.8	6286.9	5742.4	5247.4	4942.0	3916.6
20°	6516.7	6471.7	6500.1	6623.2	6687.1	6848.2	6758.2	6253.8	5685.5	5363.5	4243.4
22.5°	7085.0	7018.7	6926.3	6945.3	6968.9	7082.6	7103.9	6815.0	6194.6	5853.6	4553.6
25°	7785.9	7724.3	7615.4	7504.1	7435.4	7414.1	7487.5	7255.4	6682.4	6329.6	4887.5
27.5°	8557.9	8453.7	8385.0	8155.3	7970.6	7942.2	7906.7	7781.1	7260.2	6879.0	5264.0
30°	9308.5	9225.6	9133.2	8766.2	8574.4	8543.6	8368.4	8403.9	7887.7	7463.9	5690.2
32.5°	9876.8	9883.9	9673.2	9396.1	9216.1	9052.7	8988.8	9090.6	8692.8	8351.9	6166.2
35°	10336.2	10357.5	10156.2	9905.2	9711.1	9824.7	9796.3	9843.6	9654.2	9237.4	6720.3
37.5°	10783.7	10677.1	10461.7	10340.9	10239.1	10426.2	10667.7	10708.0	10743.5	10253.3	7364.3
40°	10857.2	10866.6	10741.1	10826.4	10698.5	10980.2	11541.5	11489.4	11633.8	11205.2	8062.9
42.5°	10752.9	10774.2	10824.0	10944.8	11252.6	11591.2	12424.7	12211.6	12386.8	12005.6	8742.5
45°	10582.5	10494.9	10556.4	11015.8	11548.6	12301.6	13232.2	13066.5	13009.6	12689.9	9552.4
47.5°	9767.8	9857.9	10049.6	10615.6	11416.0	12424.7	13805.2	13767.4	13937.9	13712.9	10288.9
50°	8638.4	8602.8	8972.2	9609.2	10641.7	12183.2	13774.5	14117.8	14484.9	14172.3	10617.9
52.5°	6469.3	6658.7	6976.1	7767.0	9239.8	10866.6	13102.0	13675.0	13973.4	13907.1	10352.7
55°	4089.5	4146.3	4338.1	5278.2	6604.3	8721.2	11231.3	12559.7	13092.5	13341.1	10108.8
57.5°	1986.7	1880.1	2114.6	2870.0	3814.8	5865.5	8662.0	10940.0	12098.0	12547.9	9578.4
60°	1037.2	1077.4	1169.8	1439.7	1972.5	3045.2	5398.9	7291.0	9059.9	9751.3	7260.2
62.5°	859.6	873.7	935.4	1070.4	1311.8	1752.3	2756.3	3554.4	4619.9	5242.7	4129.8
65°	729.4	736.4	802.7	892.7	1046.6	1233.7	1418.4	1484.7	1797.3	1844.7	1468.1
67.5°	608.5	615.7	686.7	772.0	871.4	921.1	968.5	963.8	999.3	985.1	982.7
70°	468.9	476.0	549.4	639.3	689.1	660.7	807.5	840.6	854.8	866.7	885.7
72.5°	338.6	352.8	409.7	473.6	447.6	513.9	665.4	715.1	734.1	741.2	764.8
75°	246.3	251.0	265.2	246.3	284.2	357.6	468.9	530.4	554.1	561.2	596.7
77.5°	108.9	111.3	113.7	142.1	182.4	222.6	279.5	329.2	362.3	371.8	381.2
80°	56.8	59.2	73.4	97.1	130.2	163.4	203.7	232.1	253.4	255.7	265.2
82.5°	35.5	37.9	52.1	68.7	92.3	120.7	149.2	172.9	189.4	191.8	194.2
85°	16.6	21.3	30.8	42.6	61.5	78.1	80.5	68.7	73.4	75.8	71.0
87.5°	4.7	7.1	9.5	7.1	9.5	9.5	11.8	14.2	14.2	14.2	16.6
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°	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0	2664.0
2.5°	2706.6	2685.3	2602.4	2571.6	2491.1	2505.3	2462.7	2460.3	2450.9	2448.5	2446.1
5°	2772.9	2706.6	2607.2	2531.4	2486.3	2481.6	2450.9	2450.9	2460.3	2467.4	2450.9
7.5°	2881.8	2806.0	2637.9	2566.9	2526.7	2519.5	2498.2	2481.6	2502.9	2495.8	2476.9
10°	3007.3	2874.7	2697.1	2635.6	2569.3	2552.7	2552.7	2559.8	2524.2	2536.1	2517.2
12.5°	3147.0	2969.4	2772.9	2701.8	2623.7	2614.2	2609.5	2557.4	2576.4	2566.9	2519.5
15°	3324.6	3078.4	2870.0	2749.2	2682.9	2640.3	2578.7	2569.3	2557.4	2533.7	2512.4
17.5°	3516.5	3196.8	2915.0	2763.4	2664.0	2633.2	2585.9	2536.1	2500.6	2505.3	2488.8
20°	3679.9	3305.7	2931.6	2777.6	2649.8	2590.6	2517.2	2486.3	2448.5	2446.1	2443.7
22.5°	3874.0	3452.5	2955.2	2739.7	2607.2	2545.5	2495.8	2441.4	2415.3	2382.2	2398.7
25°	4106.1	3509.3	2960.0	2718.4	2576.4	2467.4	2441.4	2382.2	2372.7	2325.4	2334.8
27.5°	4274.2	3540.1	2922.1	2652.1	2505.3	2422.4	2375.1	2332.5	2315.9	2280.3	2270.9
30°	4499.1	3587.5	2841.6	2569.3	2434.3	2342.0	2313.5	2304.1	2256.7	2218.8	2214.1
32.5°	4754.8	3618.2	2789.4	2484.0	2360.9	2289.8	2304.1	2259.0	2199.8	2166.7	2157.2
35°	4958.5	3630.1	2659.2	2386.9	2311.1	2266.2	2249.6	2240.1	2154.8	2124.0	2100.4
37.5°	5268.7	3604.1	2550.3	2318.2	2256.7	2240.1	2225.9	2161.9	2064.8	2019.9	1986.7
40°	5631.0	3596.9	2410.6	2221.1	2204.6	2223.6	2180.9	2081.4	1946.5	1896.7	1873.1
42.5°	5979.1	3646.7	2323.0	2169.1	2147.8	2154.8	2095.6	1946.5	1880.1	1851.7	1813.9
45°	6561.6	3750.9	2178.5	2088.6	2079.1	2074.3	2003.3	1847.0	1809.1	1773.6	1766.5
47.5°	7087.3	3682.2	2086.1	2005.7	2015.1	1989.1	1837.5	1787.8	1745.2	1709.7	1697.9
50°	7118.1	3518.8	1955.9	1941.8	1944.1	1899.1	1754.7	1721.5	1667.1	1643.4	1626.8
52.5°	6957.1	3251.3	1835.2	1839.9	1847.0	1773.6	1652.8	1629.2	1584.2	1551.0	1541.6
55°	6504.9	2834.5	1716.8	1735.8	1754.7	1614.9	1577.0	1517.8	1482.4	1435.0	1437.4
57.5°	5730.5	2282.8	1551.0	1581.8	1622.1	1468.1	1439.7	1366.3	1314.2	1276.4	1271.6
60°	3840.8	1624.4	1302.4	1314.2	1404.2	1342.6	1340.3	1266.9	1195.8	1162.7	1143.7
62.5°	2266.2	1240.8	1124.8	1113.0	1110.6	1146.1	1205.3	1179.3	1086.9	1023.0	1041.9
65°	1186.3	1072.7	1046.6	1006.4	982.7	973.3	1018.2	1030.0	968.5	899.8	895.1
67.5°	996.9	996.9	975.6	961.4	928.2	888.0	859.6	821.7	812.2	793.3	769.6
70°	906.9	930.6	923.5	890.3	861.9	817.0	743.5	682.0	622.8	601.5	615.7
72.5°	790.9	814.6	814.6	798.0	760.1	691.5	620.4	549.4	499.6	461.7	457.0
75°	608.5	620.4	648.8	629.8	580.1	537.5	464.1	390.7	343.3	307.8	300.8
77.5°	388.4	407.3	407.3	404.9	369.4	329.2	281.8	229.7	194.2	168.1	161.0
80°	258.1	270.0	279.5	270.0	246.3	215.5	179.9	144.5	118.4	97.1	92.3
82.5°	189.4	203.7	210.8	201.3	177.6	153.9	127.9	101.8	75.8	59.2	54.5
85°	73.4	75.8	85.3	101.8	99.4	97.1	78.1	56.8	42.6	30.8	28.4
87.5°	18.9	16.6	18.9	18.9	16.6	14.2	14.2	14.2	14.2	7.1	9.5
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)