

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: P651362

Luminaire Tested: **GALN-SA4D-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651362
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-SA4D-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1200mA 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: 22616.2 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

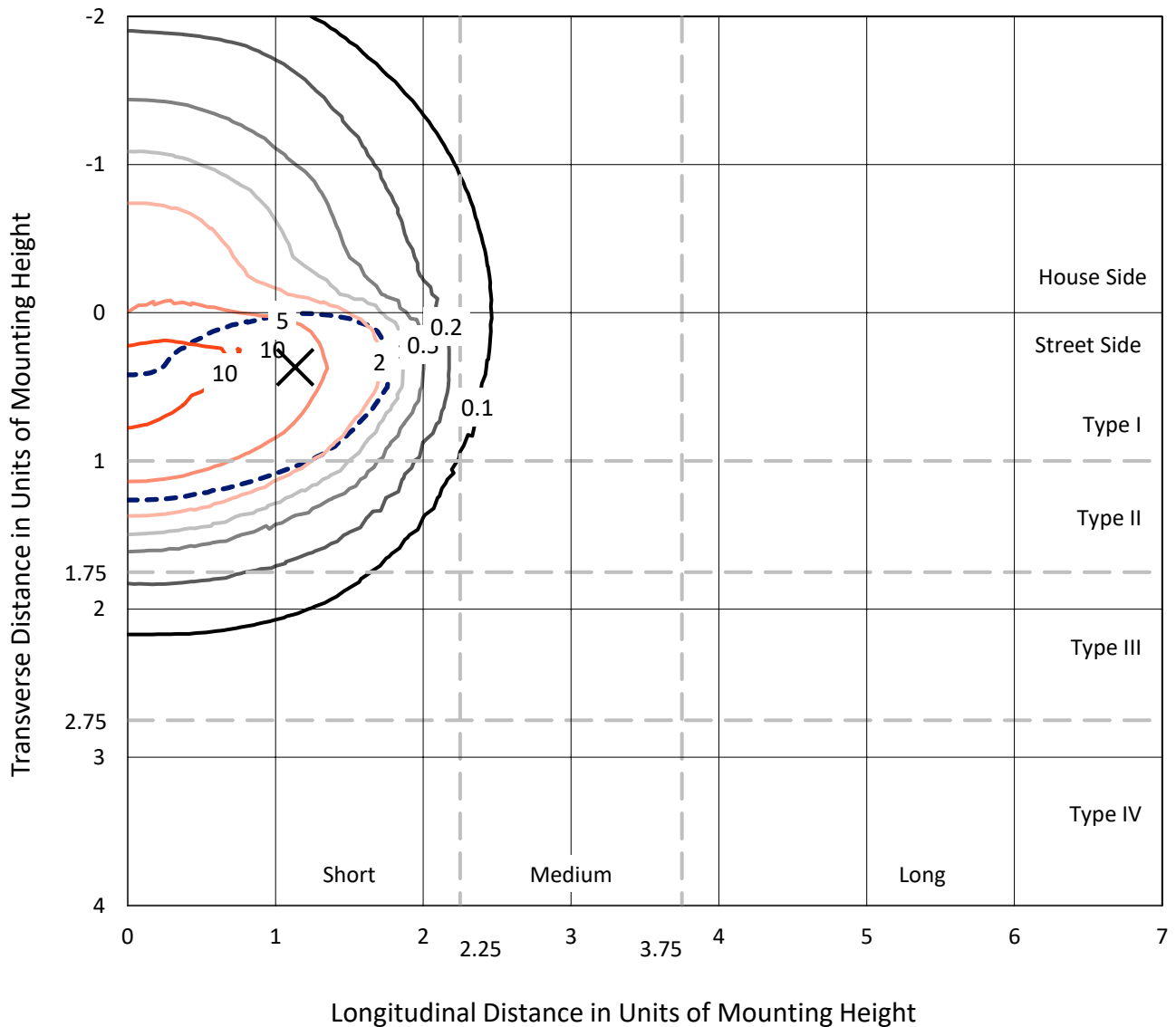
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

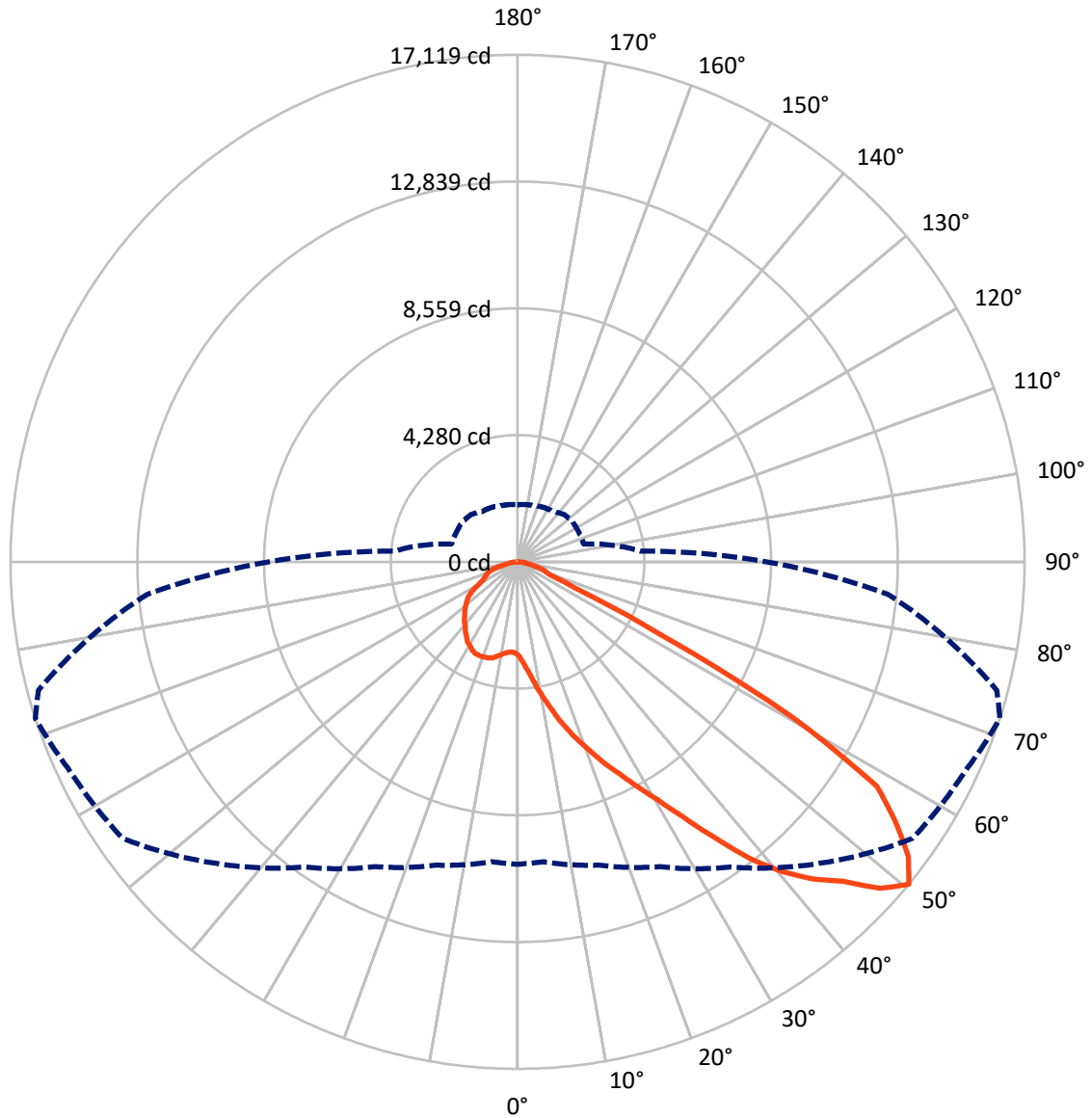
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	5181.5	0.0	5181.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17434.7	0.0	17434.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	22616.2	0.0	22616.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.3	1.6
10°-20°	1384.4	6.1
20°-30°	2684.3	11.9
30°-40°	4446.9	19.7
40°-50°	6222.2	27.5
50°-60°	5249.2	23.2
60°-70°	1599.9	7.1
70°-80°	561.3	2.5
80°-90°	97.6	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°	22616.2	100.0
0°-180°	22616.2	100.0

Coefficient of Utilization



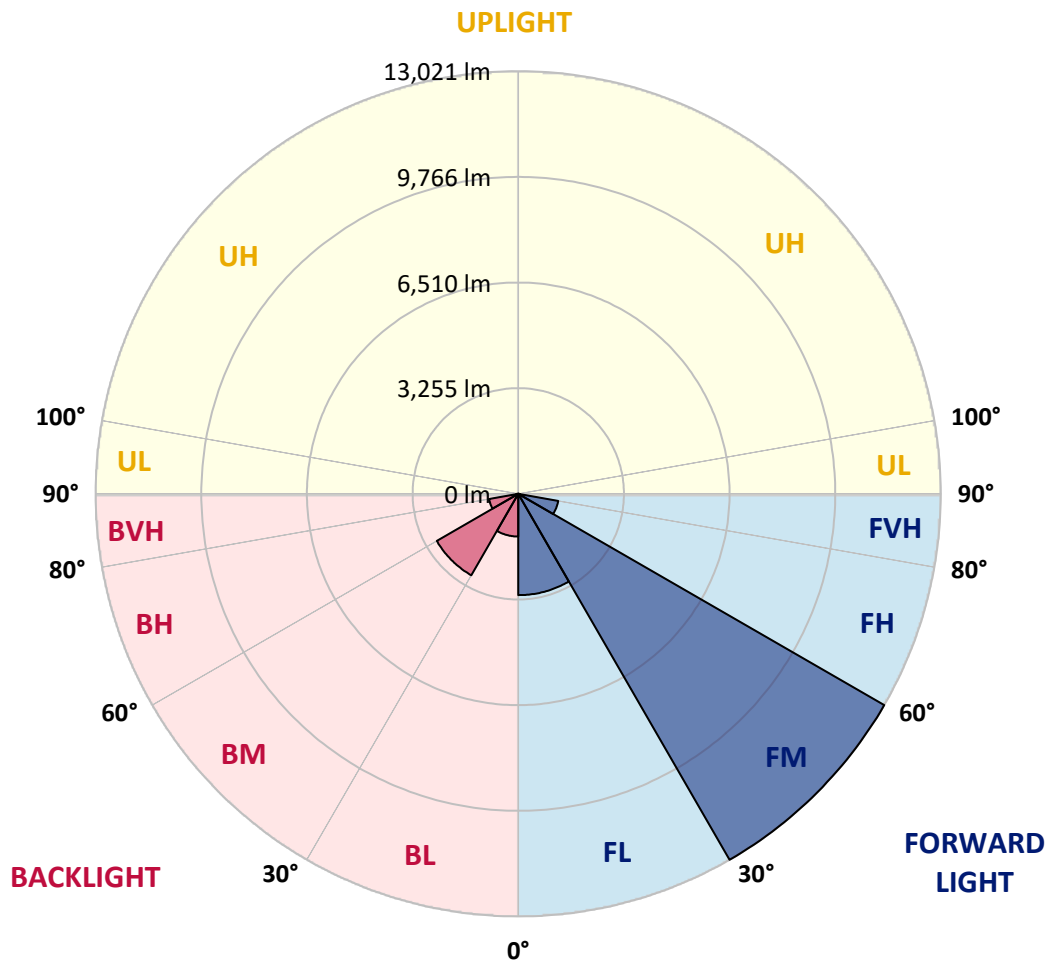
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3121.8	13.8			
FM (30°-60°)	13020.7	57.6			
FH (60°-80°)	1248.4	5.5			G1/1800
FVH (80°-90°)	43.7	0.2			G1/100
BL (0°-30°)	1317.2	5.8	B3/2500		
BM (30°-60°)	2897.6	12.8	B3/5000		
BH (60°-80°)	912.9	4.0	B2/1000		G2/1000
BVH (80°-90°)	53.9	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°	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4
2.5°	4049.5	4024.3	3948.7	3923.6	3834.0	3671.7	3615.7	3450.6	3380.7	3316.3	3240.7
5°	5121.4	5003.8	4995.4	4852.7	4645.6	4525.3	4167.1	3926.4	3705.3	3593.3	3386.2
7.5°	5804.2	5807.0	5807.0	5689.4	5524.4	5219.2	4897.5	4463.7	4130.7	3965.6	3612.9
10°	6453.4	6397.5	6366.7	6355.5	6243.6	5946.9	5602.7	5065.3	4609.2	4416.1	3783.7
12.5°	6912.4	6864.8	6934.8	6898.4	6817.2	6624.1	6299.5	5686.7	5115.7	4855.5	4057.9
15°	7130.7	7164.3	7220.2	7321.0	7284.6	7211.8	6853.6	6324.7	5661.4	5367.6	4301.4
17.5°	7466.5	7374.1	7441.3	7567.2	7668.0	7634.4	7430.2	6786.4	6201.6	5840.6	4628.8
20°	7701.6	7648.4	7682.0	7827.5	7903.1	8093.4	7987.1	7391.0	6719.3	6338.7	5015.0
22.5°	8373.2	8294.9	8185.7	8208.2	8236.1	8370.5	8395.6	8054.2	7321.0	6918.0	5381.6
25°	9201.6	9128.9	9000.1	8868.6	8787.4	8762.2	8849.0	8574.8	7897.5	7480.5	5776.2
27.5°	10114.0	9990.8	9909.7	9638.2	9419.9	9386.3	9344.4	9196.0	8580.3	8129.8	6221.1
30°	11001.1	10903.1	10794.0	10360.2	10133.5	10097.1	9890.1	9932.0	9322.0	8821.0	6724.9
32.5°	11672.7	11681.2	11432.0	11104.6	10892.0	10698.9	10623.3	10743.6	10273.5	9870.5	7287.4
35°	12215.7	12240.8	12003.0	11706.3	11476.9	11611.2	11577.5	11633.6	11409.7	10917.1	7942.2
37.5°	12744.6	12618.6	12364.0	12221.2	12100.9	12322.0	12607.4	12655.0	12697.0	12117.7	8703.5
40°	12831.3	12842.5	12694.2	12795.0	12643.8	12976.9	13640.1	13578.5	13749.3	13242.7	9529.0
42.5°	12708.2	12733.4	12792.1	12934.9	13298.6	13698.9	14683.9	14432.1	14639.2	14188.6	10332.2
45°	12506.7	12403.2	12475.9	13018.8	13648.5	14538.5	15638.3	15442.4	15375.2	14997.4	11289.3
47.5°	11544.0	11650.4	11877.0	12545.9	13491.8	14683.9	16315.5	16270.7	16472.2	16206.4	12159.7
50°	10209.1	10167.1	10603.7	11356.5	12576.7	14398.5	16279.2	16684.9	17118.7	16749.3	12548.6
52.5°	7645.6	7869.5	8244.5	9179.3	10920.0	12842.5	15484.3	16161.6	16514.2	16435.8	12235.2
55°	4833.1	4900.3	5126.9	6237.9	7805.2	10307.0	13273.5	14843.5	15473.1	15767.0	11947.0
57.5°	2348.0	2222.0	2499.1	3391.8	4508.4	6932.0	10237.1	12929.3	14297.8	14829.5	11320.1
60°	1225.8	1273.4	1382.5	1701.5	2331.2	3598.9	6380.7	8616.7	10707.3	11524.4	8580.3
62.5°	1015.8	1032.7	1105.4	1264.9	1550.4	2071.0	3257.5	4200.6	5459.9	6196.0	4880.7
65°	861.9	870.4	948.7	1055.0	1236.9	1458.0	1676.4	1754.7	2124.1	2180.0	1735.1
67.5°	719.2	727.6	811.6	912.3	1029.9	1088.7	1144.6	1139.0	1181.0	1164.2	1161.4
70°	554.1	562.5	649.3	755.6	814.3	780.8	954.3	993.5	1010.3	1024.3	1046.6
72.5°	400.2	417.0	484.2	559.7	528.9	607.3	786.4	845.1	867.6	876.0	903.9
75°	291.1	296.6	313.4	291.1	335.8	422.6	554.1	626.9	654.9	663.3	705.3
77.5°	128.8	131.5	134.3	167.9	215.5	263.1	330.3	389.0	428.2	439.3	450.6
80°	67.2	70.0	86.8	114.7	153.9	193.1	240.7	274.3	299.5	302.3	313.4
82.5°	42.0	44.7	61.6	81.2	109.2	142.7	176.3	204.3	223.9	226.6	229.5
85°	19.6	25.1	36.4	50.4	72.7	92.3	95.1	81.2	86.8	89.6	83.9
87.5°	5.6	8.4	11.2	8.4	11.2	11.2	14.0	16.8	16.8	16.8	19.6
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°	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4	3148.4
2.5°	3198.7	3173.5	3075.6	3039.2	2944.1	2960.8	2910.4	2907.7	2896.5	2893.7	2890.9
5°	3277.1	3198.7	3081.2	2991.6	2938.5	2932.9	2896.5	2896.5	2907.7	2916.1	2896.5
7.5°	3405.8	3316.3	3117.6	3033.7	2986.1	2977.6	2952.5	2932.9	2958.0	2949.6	2927.3
10°	3554.2	3397.5	3187.6	3114.8	3036.4	3016.8	3016.8	3025.2	2983.3	2997.2	2974.9
12.5°	3719.2	3509.4	3277.1	3193.1	3100.8	3089.6	3084.0	3022.5	3044.8	3033.7	2977.6
15°	3929.2	3638.1	3391.8	3249.1	3170.7	3120.4	3047.6	3036.4	3022.5	2994.5	2969.2
17.5°	4155.8	3778.0	3445.0	3265.9	3148.4	3112.0	3056.0	2997.2	2955.3	2960.8	2941.3
20°	4349.0	3906.8	3464.6	3282.7	3131.5	3061.6	2974.9	2938.5	2893.7	2890.9	2888.1
22.5°	4578.4	4080.3	3492.6	3237.9	3081.2	3008.4	2949.6	2885.3	2854.5	2815.3	2834.9
25°	4852.7	4147.5	3498.2	3212.7	3044.8	2916.1	2885.3	2815.3	2804.1	2748.1	2759.4
27.5°	5051.4	4183.8	3453.4	3134.4	2960.8	2862.9	2806.9	2756.5	2737.0	2695.0	2683.8
30°	5317.2	4239.8	3358.3	3036.4	2876.9	2767.7	2734.2	2723.0	2667.0	2622.2	2616.6
32.5°	5619.5	4276.1	3296.7	2935.7	2790.2	2706.2	2723.0	2669.8	2599.9	2560.7	2549.5
35°	5860.2	4290.2	3142.7	2821.0	2731.4	2678.2	2658.7	2647.4	2546.7	2510.3	2482.3
37.5°	6226.8	4259.4	3014.1	2739.8	2667.0	2647.4	2630.6	2555.0	2440.3	2387.2	2348.0
40°	6654.9	4251.0	2848.9	2625.0	2605.4	2627.9	2577.5	2459.9	2300.4	2241.6	2213.7
42.5°	7066.3	4309.8	2745.4	2563.5	2538.3	2546.7	2476.7	2300.4	2222.0	2188.5	2143.7
45°	7754.8	4432.9	2574.6	2468.3	2457.1	2451.5	2367.6	2182.9	2138.1	2096.1	2087.7
47.5°	8376.0	4351.8	2465.6	2370.4	2381.5	2350.8	2171.6	2112.9	2062.6	2020.6	2006.5
50°	8412.4	4158.7	2311.6	2294.8	2297.6	2244.5	2073.7	2034.5	1970.2	1942.2	1922.6
52.5°	8222.1	3842.4	2168.9	2174.5	2182.9	2096.1	1953.4	1925.4	1872.2	1833.0	1821.9
55°	7687.6	3349.9	2028.9	2051.4	2073.7	1908.6	1863.8	1793.9	1751.9	1696.0	1698.7
57.5°	6772.5	2697.8	1833.0	1869.5	1917.0	1735.1	1701.5	1614.7	1553.2	1508.4	1502.8
60°	4539.2	1919.8	1539.2	1553.2	1659.5	1586.8	1583.9	1497.2	1413.3	1374.1	1351.7
62.5°	2678.2	1466.5	1329.3	1315.3	1312.5	1354.5	1424.5	1393.7	1284.5	1208.9	1231.4
65°	1402.0	1267.7	1236.9	1189.3	1161.4	1150.2	1203.4	1217.3	1144.6	1063.4	1057.8
67.5°	1178.2	1178.2	1153.0	1136.2	1097.0	1049.5	1015.8	971.1	959.9	937.5	909.5
70°	1071.9	1099.9	1091.4	1052.3	1018.7	965.5	878.8	806.0	736.0	710.8	727.6
72.5°	934.7	962.7	962.7	943.1	898.4	817.2	733.2	649.3	590.5	545.7	540.1
75°	719.2	733.2	766.8	744.5	685.7	635.3	548.5	461.8	405.8	363.8	355.4
77.5°	458.9	481.4	481.4	478.5	436.6	389.0	333.0	271.5	229.5	198.7	190.3
80°	305.0	319.1	330.3	319.1	291.1	254.7	212.7	170.7	139.9	114.7	109.2
82.5°	223.9	240.7	249.1	237.8	209.9	181.9	151.1	120.3	89.6	70.0	64.3
85°	86.8	89.6	100.8	120.3	117.6	114.7	92.3	67.2	50.4	36.4	33.6
87.5°	22.4	19.6	22.4	22.4	19.6	16.8	16.8	16.8	16.8	8.4	11.2
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)