

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: P459055

Luminaire Tested: **GALN-SA5C-735-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33425 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

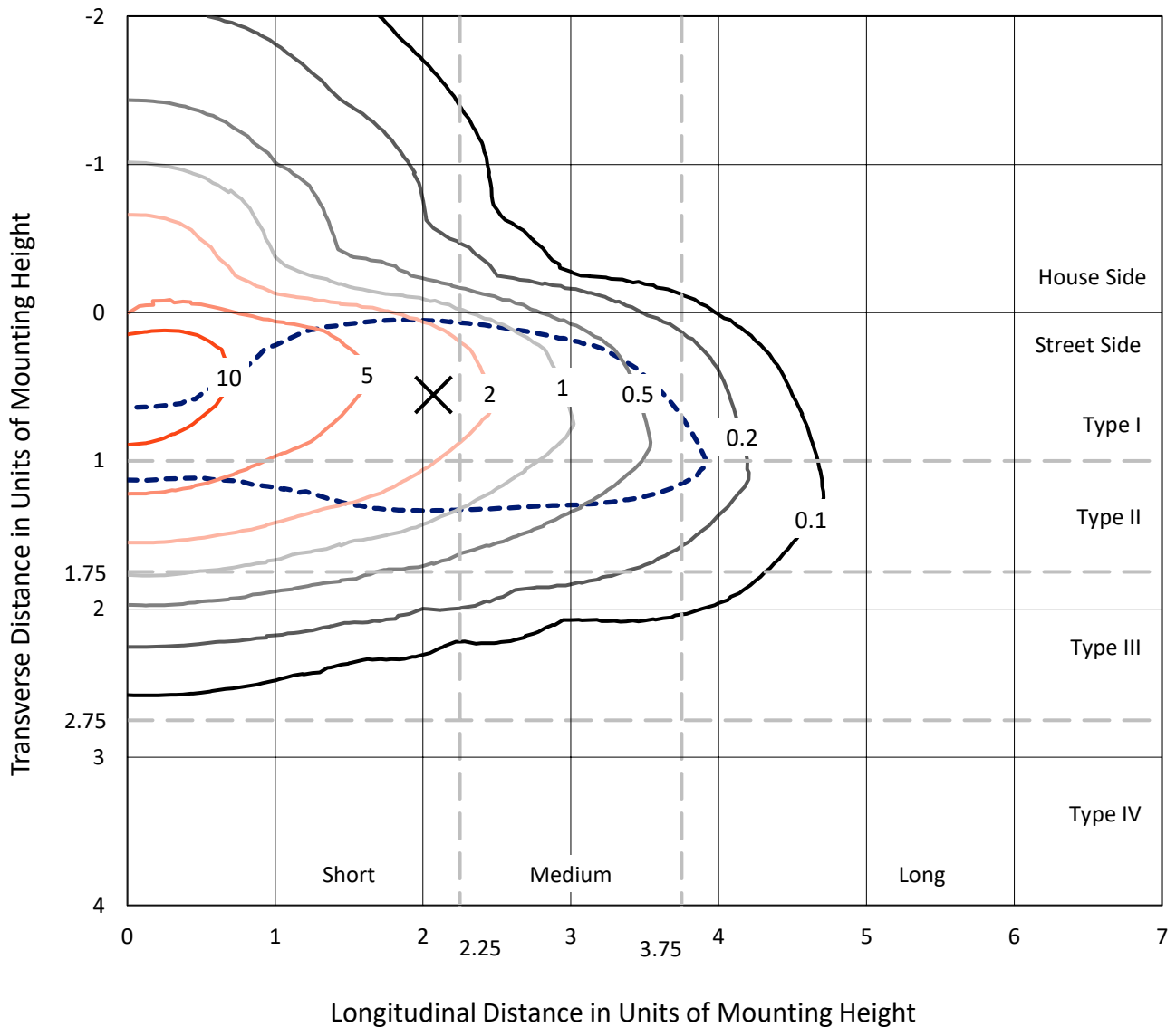
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

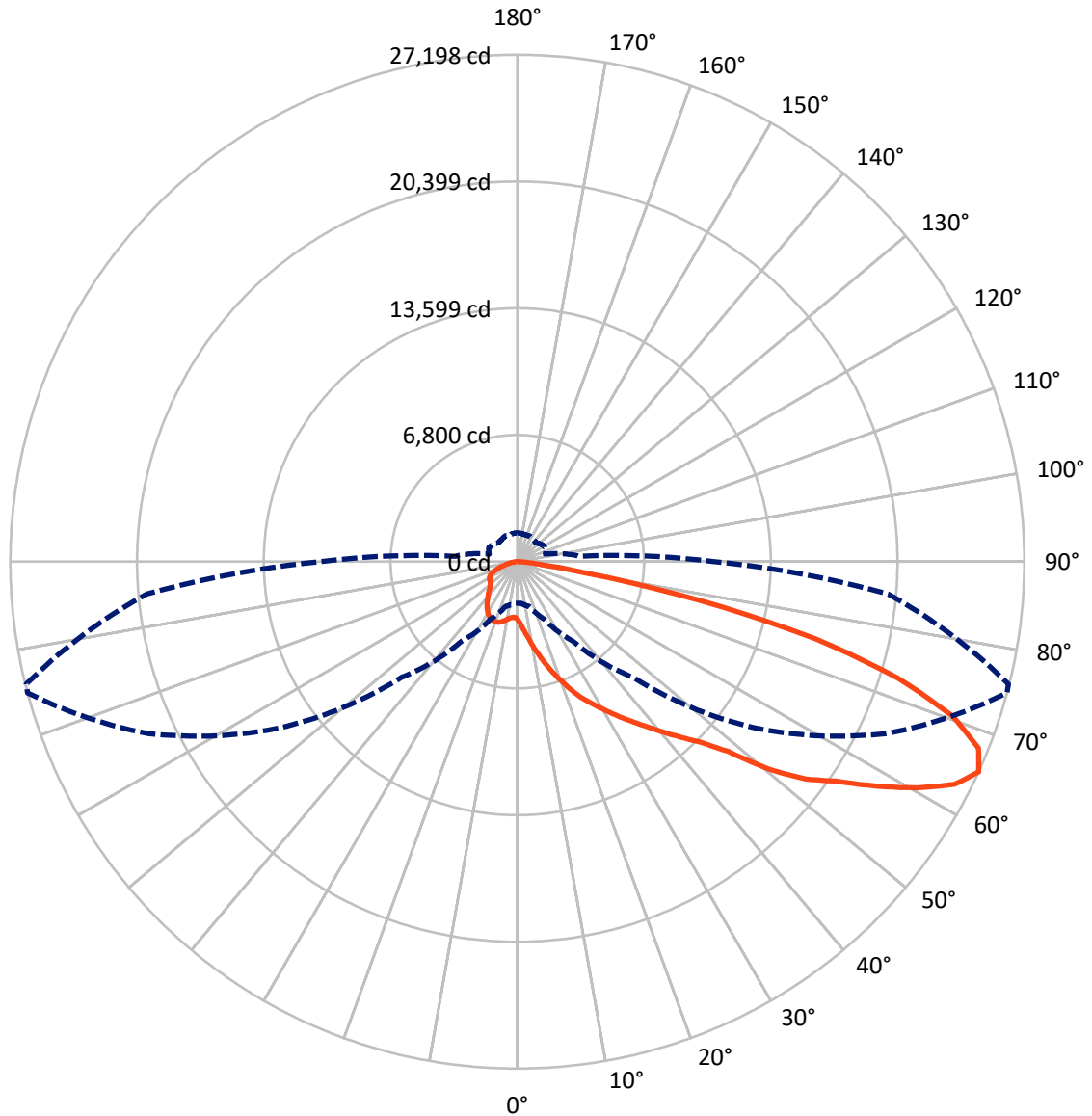
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5619.2	0.0	5619.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	27805.8	0.0	27805.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	33425.0	0.0	33425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.3	1.1
10°-20°	1477.9	4.4
20°-30°	2854.8	8.5
30°-40°	4637.1	13.9
40°-50°	6378.8	19.1
50°-60°	7531.2	22.5
60°-70°	6598.5	19.7
70°-80°	3150.2	9.4
80°-90°	419.2	1.3
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°	33425.0	100.0
0°-180°	33425.0	100.0

Coefficient of Utilization

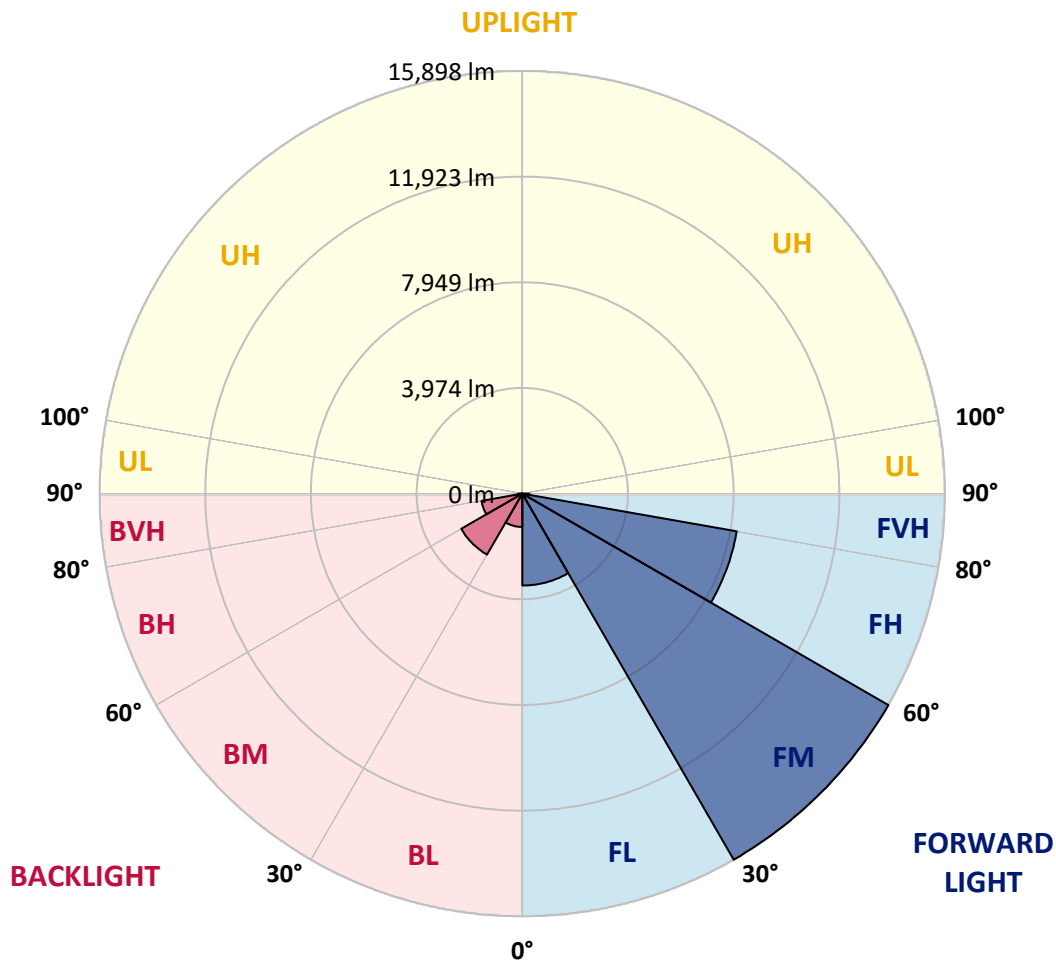


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3455.6	10.3			
FM (30°-60°)	15897.6	47.6			
FH (60°-80°)	8190.6	24.5			G4/12000
FVH (80°-90°)	262.0	0.8			G3/500
BL (0°-30°)	1254.5	3.8	B3/2500		
BM (30°-60°)	2649.4	7.9	B3/5000		
BH (60°-80°)	1558.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	157.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3105.6	3105.6	3105.6	3105.6	3105.6	3105.6	3105.6	3105.6	3105.6	3105.6	3105.6
2.5°	4126.3	4099.1	4070.1	3990.3	3905.1	3809.0	3671.2	3538.9	3363.0	3357.6	3227.1
5°	5270.3	5252.2	5123.4	5049.1	4851.5	4588.6	4365.6	4019.3	3698.4	3660.4	3406.6
7.5°	6321.8	6251.1	6202.1	6068.0	5872.2	5535.0	5103.5	4635.7	4099.1	4048.3	3627.7
10°	7114.1	7106.8	7081.4	6965.4	6818.6	6483.2	6004.5	5333.7	4606.7	4507.0	3896.1
12.5°	7706.9	7712.3	7708.7	7706.9	7601.8	7317.1	6798.6	6091.6	5119.8	5049.1	4206.1
15°	8096.7	8151.1	8172.8	8263.5	8272.5	8082.2	7636.2	6824.0	5698.1	5593.0	4539.7
17.5°	8354.1	8381.3	8482.9	8637.0	8762.0	8727.6	8330.6	7502.0	6289.2	6113.3	4885.9
20°	8600.7	8647.8	8725.8	8936.1	9157.3	9258.8	8979.6	8196.4	6874.8	6762.3	5268.5
22.5°	9113.8	9180.8	9208.0	9315.0	9503.5	9683.0	9556.1	8861.8	7516.5	7364.3	5674.6
25°	9982.2	10052.9	9976.7	9951.4	10013.0	10101.8	10074.6	9489.0	8122.1	7904.5	6058.9
27.5°	11113.5	11122.5	10973.9	10832.5	10680.2	10634.8	10551.4	10045.6	8647.8	8466.5	6445.1
30°	12328.1	12284.6	12038.1	11782.4	11525.0	11271.2	11031.9	10582.3	9233.4	9024.9	6824.0
32.5°	13455.8	13432.2	13158.5	12761.4	12326.3	12087.0	11603.0	11124.3	9860.7	9659.5	7213.8
35°	14300.6	14335.1	14034.1	13600.8	13125.8	12913.7	12302.8	11693.6	10509.7	10290.4	7638.0
37.5°	14900.7	14882.6	14616.1	14240.8	13823.8	13638.9	13120.4	12315.5	11207.7	10997.4	8102.1
40°	15114.7	15103.8	14906.2	14632.4	14367.7	14302.5	13976.1	12986.2	12007.3	11760.7	8660.5
42.5°	14978.7	15002.3	14871.7	14797.4	14748.4	14795.6	14826.4	13865.5	12879.3	12652.7	9266.1
45°	14561.7	14549.0	14530.9	14652.4	14927.9	15237.9	15667.6	14695.9	13827.5	13646.2	10078.3
47.5°	13816.6	13907.2	13952.6	14288.0	14889.9	15624.1	16635.7	15809.0	15203.5	15045.8	11316.5
50°	12774.1	12846.7	13115.0	13711.4	14608.9	15769.1	17582.1	17629.2	17498.7	17203.2	12661.7
52.5°	11146.1	11258.5	11811.5	12904.7	14032.3	15709.3	18155.0	19190.2	19362.4	19141.3	13987.0
55°	9324.1	9481.8	10065.6	11499.6	13238.3	15383.0	18550.2	20094.9	20782.0	20577.1	15263.3
57.5°	7540.1	7706.9	8307.0	9695.7	11853.1	14661.4	18809.5	21102.9	22714.6	22448.1	16851.5
60°	5651.0	5825.0	6339.9	7770.4	9880.6	13250.9	18633.6	21976.7	24645.4	24531.2	18441.5
62.5°	3645.9	3838.0	4285.8	5469.7	7594.5	11323.8	17692.7	22459.0	26317.0	26179.2	19601.7
65°	2220.9	2242.6	2489.2	3395.7	5197.8	8767.5	15540.7	21819.0	27198.1	27156.4	19955.3
67.5°	1435.9	1470.3	1582.7	2034.1	3116.5	6089.7	12426.0	19706.9	26683.2	26668.7	19224.7
70°	1212.9	1223.7	1274.5	1372.4	1811.1	3693.0	8725.8	16340.2	24727.0	24727.0	17467.9
72.5°	1084.2	1098.7	1116.8	1147.6	1292.6	2092.2	5206.8	12719.7	21349.4	21490.9	14868.1
75°	984.4	980.8	991.7	997.1	1102.3	1367.0	2692.2	9407.5	16516.1	16233.3	10767.2
77.5°	843.0	848.5	843.0	866.6	973.6	1040.6	1367.0	6312.7	10009.4	9643.1	5404.4
80°	692.6	701.6	710.7	725.2	832.1	790.5	821.3	2877.2	3702.1	3624.1	1669.7
82.5°	520.3	533.0	547.5	582.0	654.5	522.1	518.5	1229.2	1336.2	1223.7	614.6
85°	210.3	248.4	375.3	409.7	411.5	286.4	319.1	513.1	545.7	533.0	241.1
87.5°	48.9	58.0	121.5	183.1	168.6	107.0	117.8	166.8	190.4	175.9	81.6
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°	3105.6	3105.6	3105.6	3105.6	3105.6	3105.6	3105.6	3105.6	3105.6	3105.6	3105.6
2.5°	3167.2	3103.8	2995.0	2911.6	2851.8	2799.2	2766.6	2746.6	2739.4	2737.6	2739.4
5°	3274.2	3161.8	2989.6	2880.8	2821.0	2786.5	2766.6	2764.8	2766.6	2768.4	2763.0
7.5°	3421.1	3259.7	3034.9	2933.4	2888.0	2862.7	2853.6	2850.0	2851.8	2850.0	2850.0
10°	3616.9	3395.7	3123.7	3018.6	2980.5	2951.5	2937.0	2927.9	2920.7	2913.4	2909.8
12.5°	3832.6	3546.2	3219.8	3118.3	3063.9	3018.6	2985.9	2962.4	2946.1	2929.7	2926.1
15°	4073.7	3705.7	3326.8	3185.4	3107.4	3040.3	2984.1	2946.1	2917.1	2893.5	2891.7
17.5°	4304.0	3856.2	3399.3	3216.2	3102.0	3007.7	2933.4	2880.8	2844.5	2813.7	2810.1
20°	4550.5	3999.4	3431.9	3196.3	3047.6	2933.4	2835.5	2772.0	2730.3	2695.9	2690.4
22.5°	4798.9	4120.9	3428.3	3132.8	2953.3	2819.2	2715.8	2648.7	2599.8	2565.3	2552.7
25°	5036.4	4218.8	3383.0	3031.3	2822.8	2683.2	2578.0	2516.4	2472.9	2431.2	2431.2
27.5°	5250.3	4276.8	3297.8	2908.0	2688.6	2541.8	2458.4	2402.2	2362.3	2335.1	2318.8
30°	5460.6	4304.0	3181.7	2752.1	2547.2	2422.1	2355.0	2322.4	2286.1	2255.3	2251.7
32.5°	5649.2	4298.5	3036.7	2599.8	2413.1	2324.2	2297.0	2271.6	2233.6	2190.1	2179.2
35°	5832.3	4262.3	2864.5	2433.0	2300.6	2266.2	2273.5	2237.2	2168.3	2113.9	2104.8
37.5°	6031.7	4197.0	2675.9	2297.0	2206.4	2239.0	2257.1	2177.4	2065.0	1979.8	1959.8
40°	6262.0	4122.7	2480.1	2161.1	2132.0	2213.6	2213.6	2066.8	1912.7	1860.1	1845.6
42.5°	6532.1	4061.0	2317.0	2046.8	2070.4	2152.0	2142.9	1919.9	1856.5	1829.3	1822.0
45°	6960.0	4039.3	2148.4	1947.1	2019.6	2079.5	2005.1	1869.2	1832.9	1811.1	1803.9
47.5°	7636.2	4064.7	1999.7	1872.8	1961.6	2006.9	1851.0	1834.7	1809.3	1778.5	1774.9
50°	8263.5	4041.1	1894.5	1831.1	1910.9	1919.9	1787.6	1793.0	1778.5	1744.1	1736.8
52.5°	8776.6	3966.8	1827.5	1809.3	1867.4	1767.6	1727.8	1747.7	1742.3	1698.7	1691.5
55°	9340.4	3921.4	1794.8	1809.3	1838.3	1635.3	1671.6	1700.6	1693.3	1662.5	1660.7
57.5°	10023.9	3930.5	1771.3	1814.8	1809.3	1568.2	1615.3	1649.8	1648.0	1638.9	1638.9
60°	10723.7	3934.1	1735.0	1813.0	1774.9	1515.6	1557.3	1606.3	1609.9	1615.3	1615.3
62.5°	10955.7	3776.4	1664.3	1780.3	1698.7	1464.9	1502.9	1570.0	1566.4	1580.9	1582.7
65°	10522.4	3339.5	1559.1	1706.0	1600.8	1428.6	1461.2	1522.9	1502.9	1541.0	1548.3
67.5°	9577.9	2763.0	1396.0	1571.8	1492.1	1390.5	1434.1	1457.6	1421.4	1495.7	1497.5
70°	8278.0	2157.4	1189.3	1381.5	1368.8	1350.7	1412.3	1376.0	1325.3	1415.9	1397.8
72.5°	6921.9	1648.0	950.0	1129.5	1203.8	1290.8	1374.2	1270.9	1200.2	1227.4	1194.7
75°	5199.6	1218.3	763.3	884.7	1002.6	1205.6	1339.8	1144.0	1035.2	1009.8	1002.6
77.5°	2650.6	795.9	571.1	661.7	752.4	1089.6	1292.6	995.3	857.5	817.6	799.5
80°	946.4	494.9	402.5	456.9	507.6	937.3	1129.5	823.1	665.4	658.1	665.4
82.5°	438.7	319.1	270.1	299.1	301.0	625.5	861.2	614.6	505.8	768.7	649.0
85°	188.5	159.5	152.3	148.7	137.8	279.2	484.1	330.0	514.9	230.2	212.1
87.5°	56.2	63.5	56.2	41.7	30.8	30.8	48.9	18.1	12.7	9.1	9.1
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)