

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: P647384

Luminaire Tested: **GALN-SA4D-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647384
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20271.9 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

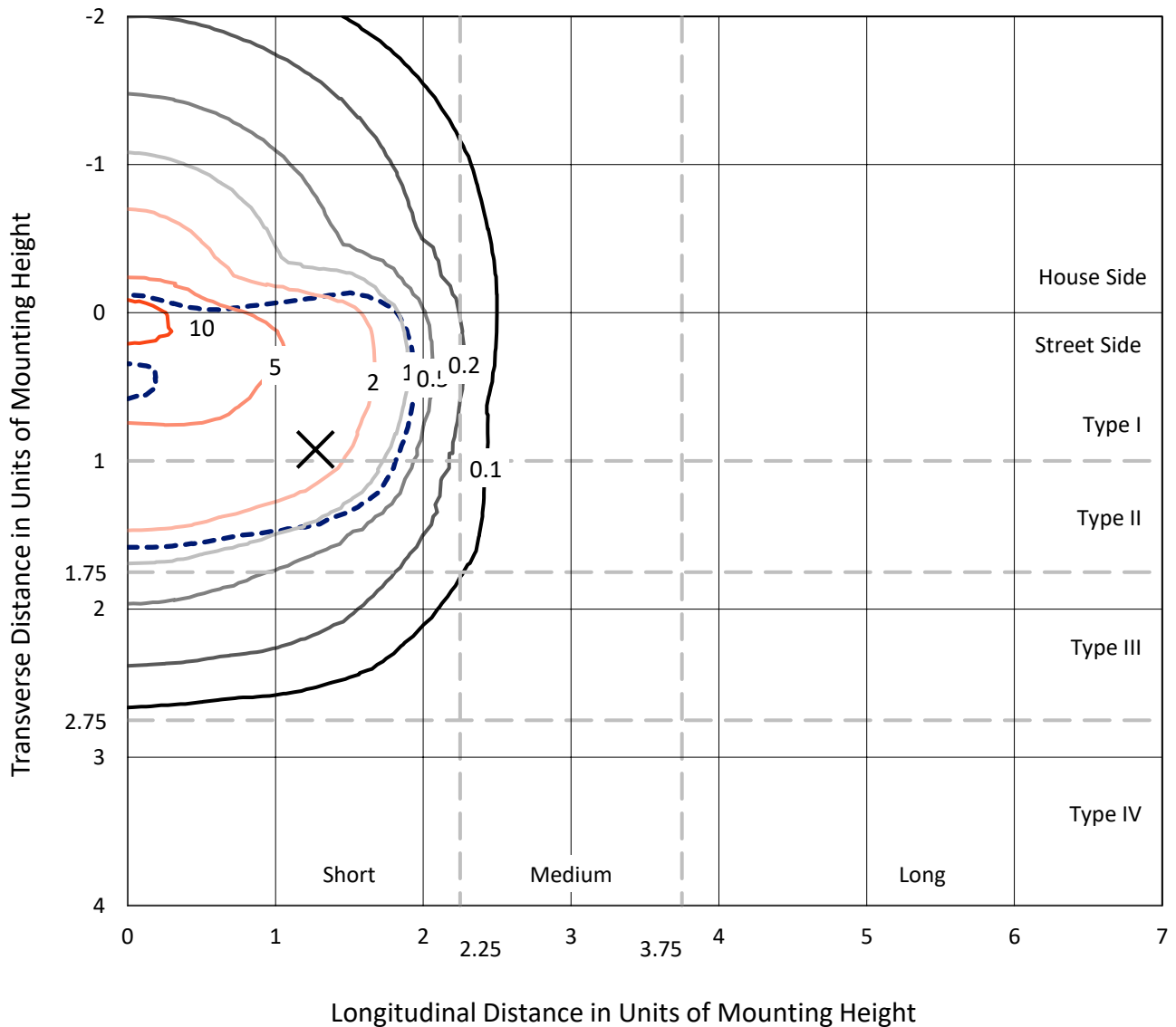
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

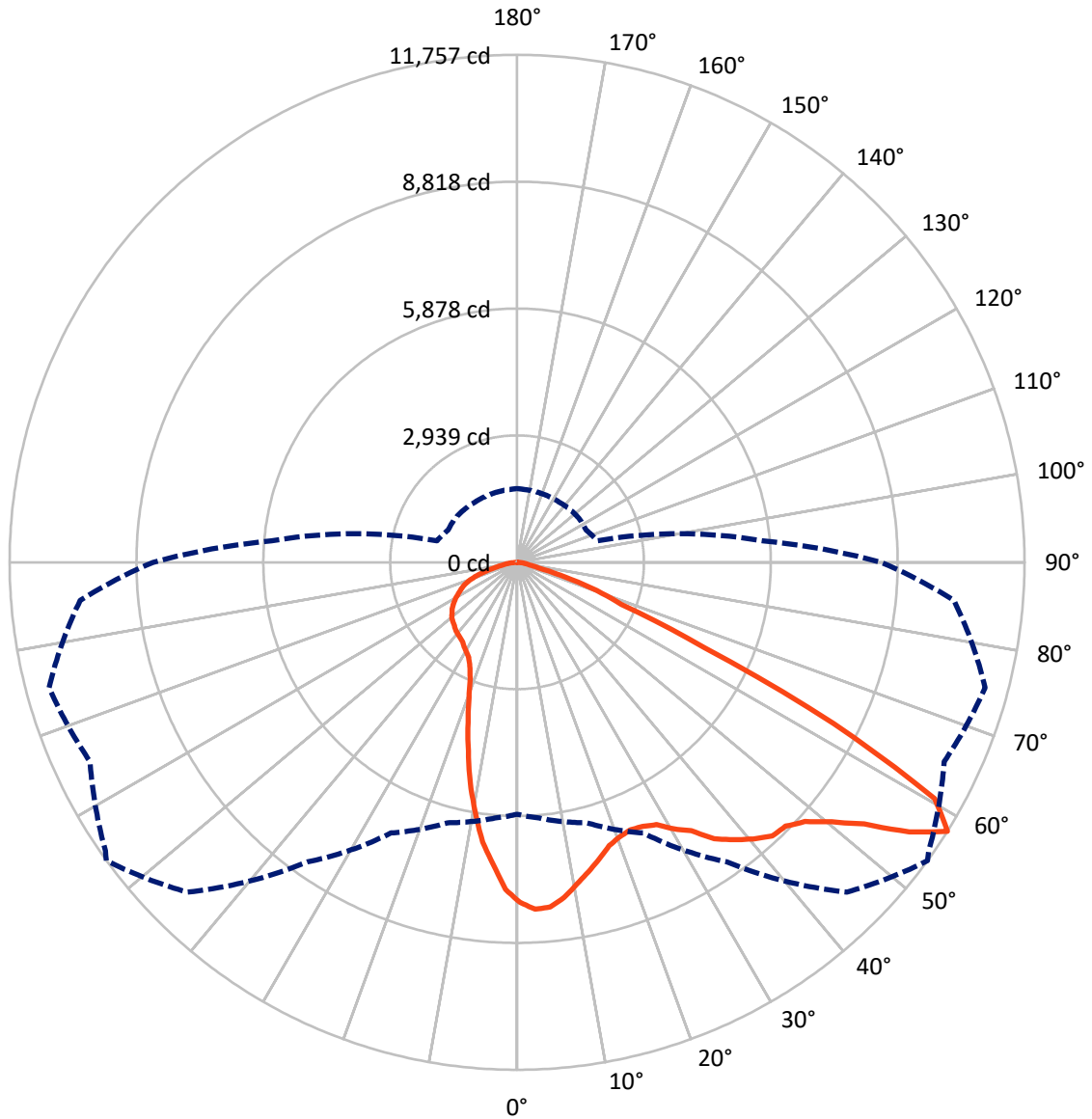
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5608.3	0.0	5608.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	14663.5	0.0	14663.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	20271.9	0.0	20271.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.5	3.4
10°-20°	1573.3	7.8
20°-30°	2210.6	10.9
30°-40°	3090.4	15.2
40°-50°	4183.8	20.6
50°-60°	5096.1	25.1
60°-70°	2654.3	13.1
70°-80°	680.1	3.4
80°-90°	103.7	0.5
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°	20271.9	100.0
0°-180°	20271.9	100.0

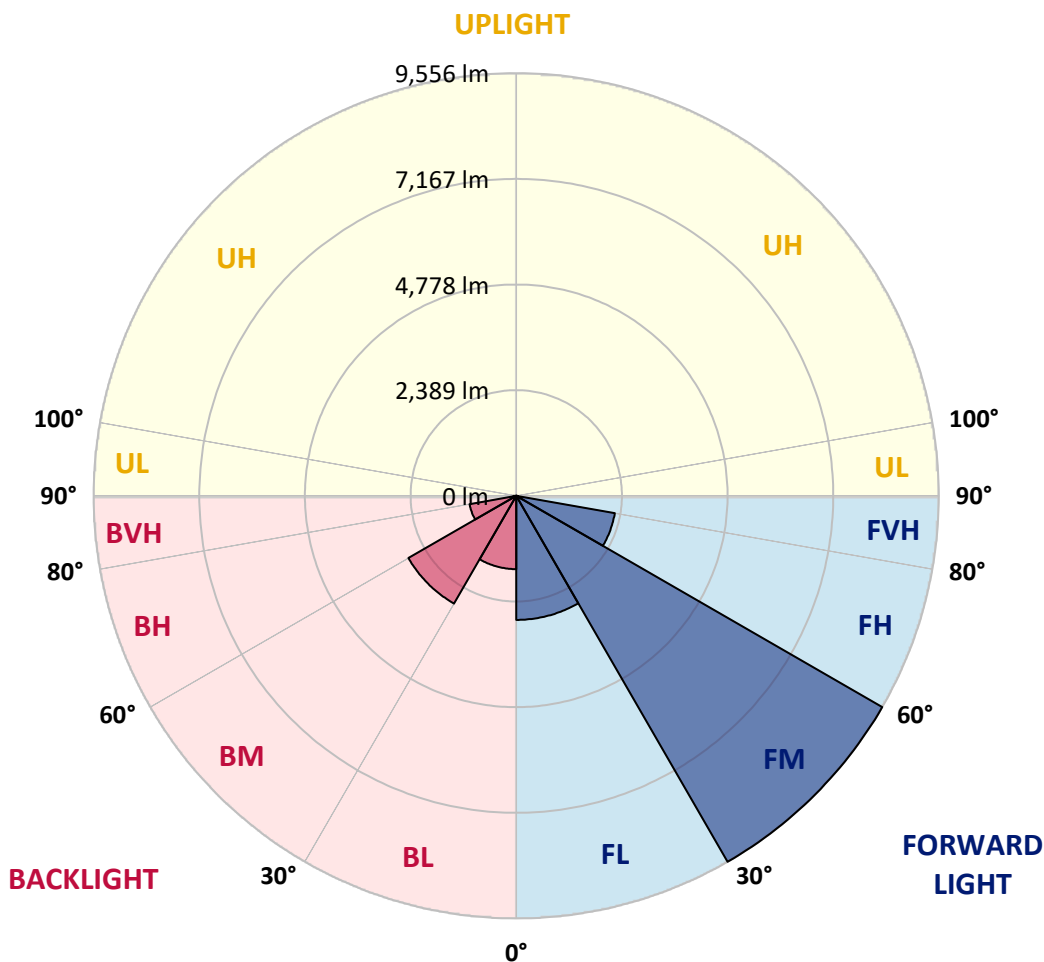


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2805.9	13.8			
FM (30°-60°)	9555.5	47.1			
FH (60°-80°)	2262.9	11.2			G2/5000
FVH (80°-90°)	39.2	0.2			G1/100
BL (0°-30°)	1657.5	8.2	B3/2500		
BM (30°-60°)	2814.8	13.9	B3/5000		
BH (60°-80°)	1071.5	5.3	B3/2500		G3/2500
BVH (80°-90°)	64.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7879.4	7879.4	7879.4	7879.4	7879.4	7879.4	7879.4	7879.4	7879.4	7879.4	7879.4
2.5°	8103.5	8072.3	8077.5	8119.2	8067.0	8046.2	8046.2	7944.6	7952.4	7882.1	7863.8
5°	7915.9	7843.0	7892.5	7955.0	7965.5	7986.3	8020.1	7994.1	7921.1	7845.6	7723.1
7.5°	7426.1	7491.2	7509.4	7553.8	7647.6	7733.5	7840.3	7767.4	7764.8	7689.2	7616.2
10°	6996.1	6957.0	7056.1	7121.2	7277.5	7420.9	7585.0	7577.2	7616.2	7530.3	7405.2
12.5°	6568.8	6537.6	6584.4	6732.9	6951.9	7160.3	7355.7	7282.8	7491.2	7475.5	7207.2
15°	6115.5	6138.9	6206.6	6344.7	6631.3	6881.5	7129.1	7131.6	7316.7	7379.1	7019.6
17.5°	5797.6	5771.5	5857.5	6063.3	6318.7	6618.3	6899.7	6957.0	7241.0	7277.5	6962.3
20°	5560.4	5596.9	5708.9	5813.1	6107.6	6469.8	6787.7	6808.5	7225.4	7324.4	6871.1
22.5°	5503.1	5482.3	5518.7	5688.1	5930.4	6323.9	6727.8	6805.9	7222.9	7308.8	6699.1
25°	5443.2	5510.9	5508.3	5677.7	5854.9	6206.6	6777.3	6863.2	7360.9	7389.6	6722.5
27.5°	5578.6	5570.9	5643.8	5656.9	5875.7	6237.9	6881.5	6946.6	7590.2	7566.8	6740.8
30°	5714.2	5675.1	5719.3	5873.1	5974.8	6417.7	7168.1	7162.9	7887.2	7871.7	6798.1
32.5°	5881.0	5862.7	5891.4	6026.8	6198.8	6657.4	7410.4	7564.2	8189.5	8288.5	6996.1
35°	5912.2	5987.8	6055.5	6237.9	6482.8	7045.7	7866.4	7994.1	8538.7	8848.8	7374.0
37.5°	6110.2	6138.9	6297.8	6620.9	6845.0	7564.2	8155.6	8236.4	8856.6	9208.3	7772.6
40°	6321.2	6355.1	6594.9	6933.6	7241.0	7902.9	8426.6	8452.7	8958.1	9484.5	8033.2
42.5°	6607.9	6639.1	6876.3	7301.0	7712.7	8192.1	8666.3	8695.0	8950.4	9802.4	8447.5
45°	6905.0	6980.5	7259.3	7741.4	8111.3	8530.9	8721.1	8838.3	9023.3	10086.4	8783.6
47.5°	7321.8	7392.2	7621.5	8093.1	8525.6	8827.9	8973.8	9088.4	9197.9	10334.0	8999.9
50°	7764.8	7777.9	8056.6	8484.0	8801.9	9164.0	9445.4	9484.5	9427.2	10620.6	9367.3
52.5°	8090.5	8132.2	8348.4	8765.4	9239.6	9685.2	10070.8	10112.4	10000.4	10727.4	9492.3
55°	7551.1	7527.7	7879.4	8434.5	9534.0	10461.7	11021.8	11053.1	10417.3	11058.3	9901.4
57.5°	5836.6	5948.7	6248.3	6918.0	8470.9	10805.6	11756.7	11644.6	10917.6	11225.1	10162.0
60°	4242.0	4215.9	4416.6	4864.7	6383.8	9312.5	11115.6	11230.3	10508.6	10117.7	8379.7
62.5°	3455.1	3418.6	3434.2	3449.9	4119.5	6180.5	8228.6	8226.0	8093.1	7272.3	5651.6
65°	2762.0	2847.9	2855.8	2973.1	3059.0	3692.2	4768.3	5023.6	4374.9	3587.9	2603.0
67.5°	2081.9	2050.6	2154.9	2571.8	2733.3	2665.6	2603.0	2631.7	1870.8	1349.7	1271.5
70°	1227.3	1214.2	1339.3	1792.7	2251.3	2118.4	1962.0	1964.6	1284.6	943.2	1050.1
72.5°	672.3	669.6	695.7	909.4	1279.3	1328.9	1177.7	1214.2	766.1	763.4	820.7
75°	375.2	367.4	359.6	401.3	461.2	487.3	497.7	502.9	526.3	588.9	612.3
77.5°	138.1	132.9	132.9	153.7	195.4	244.9	310.1	315.3	372.6	427.4	450.8
80°	46.9	52.1	70.3	96.4	130.3	174.6	211.0	216.3	263.2	299.7	307.5
82.5°	28.7	31.2	46.9	67.7	93.8	122.5	156.4	158.9	195.4	218.8	229.3
85°	13.0	15.7	26.1	41.7	59.9	80.8	83.4	83.4	80.8	83.4	78.1
87.5°	0.0	0.0	5.2	5.2	5.2	7.8	10.4	7.8	13.0	15.7	15.7
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°	7879.4	7879.4	7879.4	7879.4	7879.4	7879.4	7879.4	7879.4	7879.4	7879.4	7879.4
2.5°	7809.1	7780.4	7691.8	7613.7	7590.2	7486.0	7332.2	7350.5	7238.4	7290.6	7235.9
5°	7702.3	7605.8	7379.1	7282.8	7030.0	6915.4	6837.2	6641.8	6550.6	6532.3	6454.2
7.5°	7428.6	7368.7	7084.7	6824.2	6555.7	6326.5	6032.1	5831.4	5688.1	5649.0	5534.4
10°	7212.4	7079.5	6686.0	6290.0	5907.0	5508.3	5125.3	4825.6	4679.8	4510.4	4453.0
12.5°	6998.8	6798.1	6266.6	5758.4	5263.4	4760.5	4296.7	3931.9	3614.0	3538.5	3512.4
15°	6865.8	6516.7	5891.4	5279.0	4575.5	3918.9	3455.1	3215.4	3020.0	2939.1	2996.5
17.5°	6691.3	6284.8	5531.7	4716.2	3942.3	3337.9	2949.6	2801.0	2730.7	2738.5	2715.1
20°	6472.4	6065.9	5060.1	4205.5	3376.9	2894.8	2673.4	2618.7	2629.1	2647.3	2639.5
22.5°	6316.1	5800.2	4718.8	3684.4	2918.3	2649.9	2558.8	2519.6	2553.5	2569.2	2556.1
25°	6196.2	5573.5	4304.5	3223.1	2652.6	2511.9	2470.1	2467.5	2519.6	2540.5	2527.4
27.5°	6086.7	5362.4	3892.8	2871.4	2475.4	2405.0	2392.0	2423.2	2457.1	2478.0	2496.2
30°	6021.7	5200.8	3507.2	2577.0	2386.7	2352.9	2329.4	2358.1	2376.3	2397.2	2386.7
32.5°	6084.1	5086.2	3134.6	2410.2	2313.8	2279.9	2311.2	2292.9	2324.3	2342.5	2313.8
35°	6279.6	4984.6	2868.8	2321.6	2230.5	2243.5	2248.7	2240.9	2253.9	2238.2	2272.1
37.5°	6472.4	4948.1	2623.9	2246.0	2191.3	2191.3	2186.1	2170.5	2196.5	2191.3	2207.0
40°	6717.4	4971.6	2415.4	2165.3	2154.9	2149.6	2128.8	2126.2	2115.7	2118.4	2123.6
42.5°	6931.0	5023.6	2295.6	2113.2	2121.0	2131.4	2092.3	2061.1	2074.1	2048.0	2048.0
45°	7157.7	5070.6	2188.7	2076.7	2068.8	2066.3	2035.0	2016.8	2006.4	2008.9	2032.4
47.5°	7514.7	5138.3	2108.0	2027.2	2032.4	1993.3	1985.5	1962.0	1972.5	1988.1	1990.7
50°	7767.4	5281.6	2045.4	1969.9	1988.1	1962.0	1915.1	1904.7	1904.7	1930.8	1925.6
52.5°	7944.6	5482.3	1985.5	1907.3	1915.1	1894.3	1878.7	1855.2	1839.6	1876.1	1894.3
55°	8486.5	5815.8	1969.9	1855.2	1852.6	1831.8	1803.1	1779.7	1771.9	1777.0	1813.5
57.5°	8434.5	5711.6	1920.4	1764.0	1758.8	1730.1	1701.5	1693.6	1691.0	1696.3	1706.7
60°	6847.6	4218.5	1714.5	1659.8	1652.0	1646.7	1618.1	1586.8	1571.2	1586.8	1573.8
62.5°	4531.2	2824.5	1511.3	1534.8	1539.9	1526.9	1480.0	1448.7	1454.0	1472.2	1443.5
65°	2225.2	1659.8	1370.6	1433.1	1438.3	1401.8	1357.6	1321.1	1302.8	1318.4	1305.4
67.5°	1271.5	1268.9	1255.9	1321.1	1318.4	1282.0	1211.6	1180.4	1149.1	1154.3	1146.5
70°	1078.7	1099.6	1125.6	1164.7	1162.1	1120.4	1037.0	1013.6	969.3	964.1	951.0
72.5°	849.4	885.9	943.2	971.9	948.4	896.3	841.6	802.6	763.4	740.0	747.8
75°	630.5	682.7	713.9	732.2	695.7	667.0	622.7	575.8	528.9	508.1	500.3
77.5°	458.6	474.3	502.9	515.9	492.4	463.8	437.8	390.9	346.6	317.9	310.1
80°	320.5	330.9	351.7	351.7	351.7	338.7	304.8	257.9	229.3	203.3	198.0
82.5°	224.1	234.5	255.3	244.9	242.3	226.7	205.9	169.4	138.1	119.9	114.6
85°	78.1	86.0	104.2	125.0	132.9	130.3	117.2	93.8	73.0	59.9	54.7
87.5°	18.2	18.2	20.8	18.2	18.2	20.8	18.2	18.2	18.2	13.0	10.4
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)