

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: P529558

Luminaire Tested: **GALN-SA4D-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21693 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

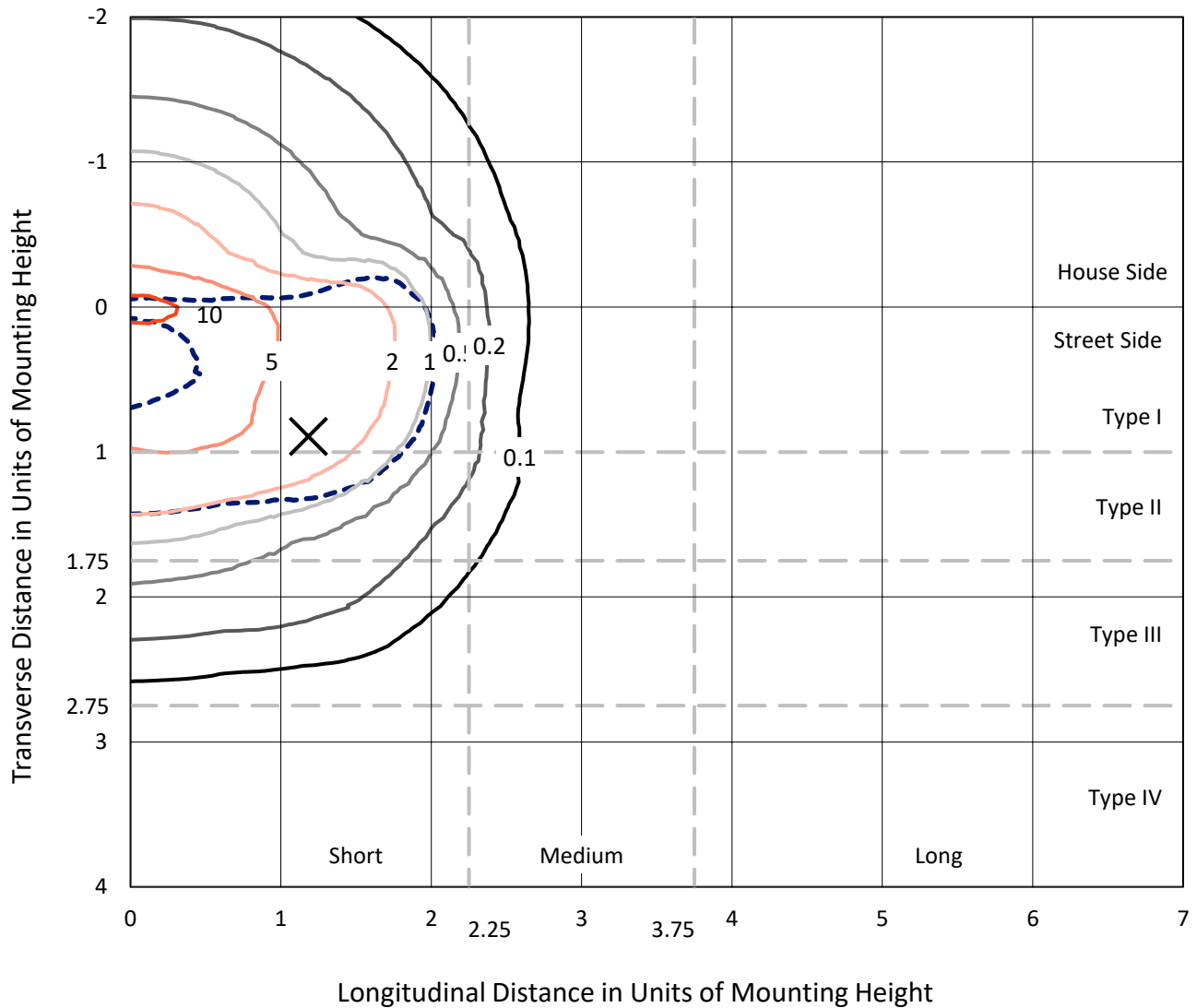
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

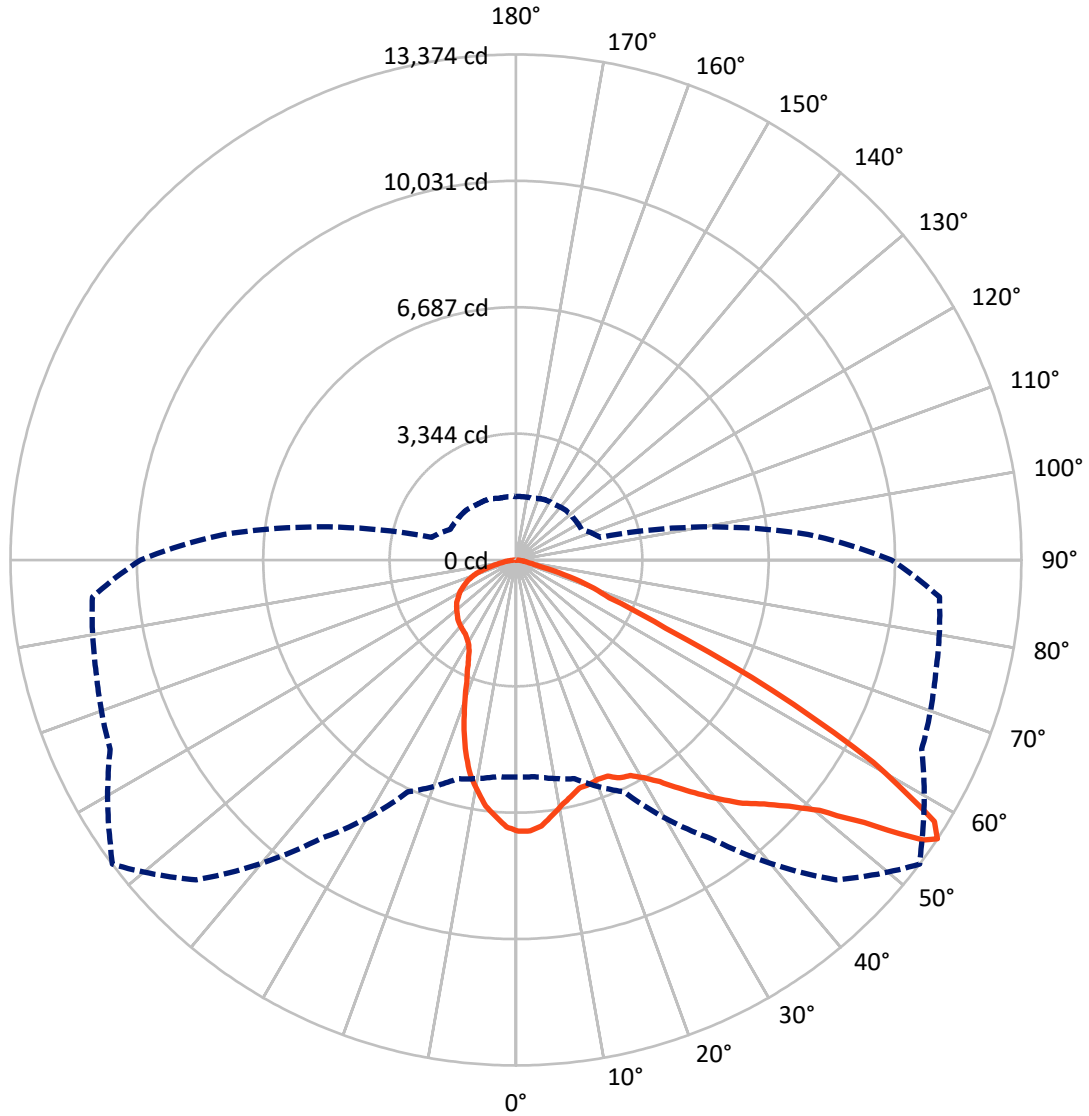
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6330.5	0.0	6330.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	15362.5	0.0	15362.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	21693.0	0.0	21693.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.4	2.9
10°-20°	1586.9	7.3
20°-30°	2340.0	10.8
30°-40°	3343.3	15.4
40°-50°	4601.7	21.2
50°-60°	5437.9	25.1
60°-70°	2898.0	13.4
70°-80°	735.2	3.4
80°-90°	114.6	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°	21693.0	100.0
0°-180°	21693.0	100.0

Coefficient of Utilization



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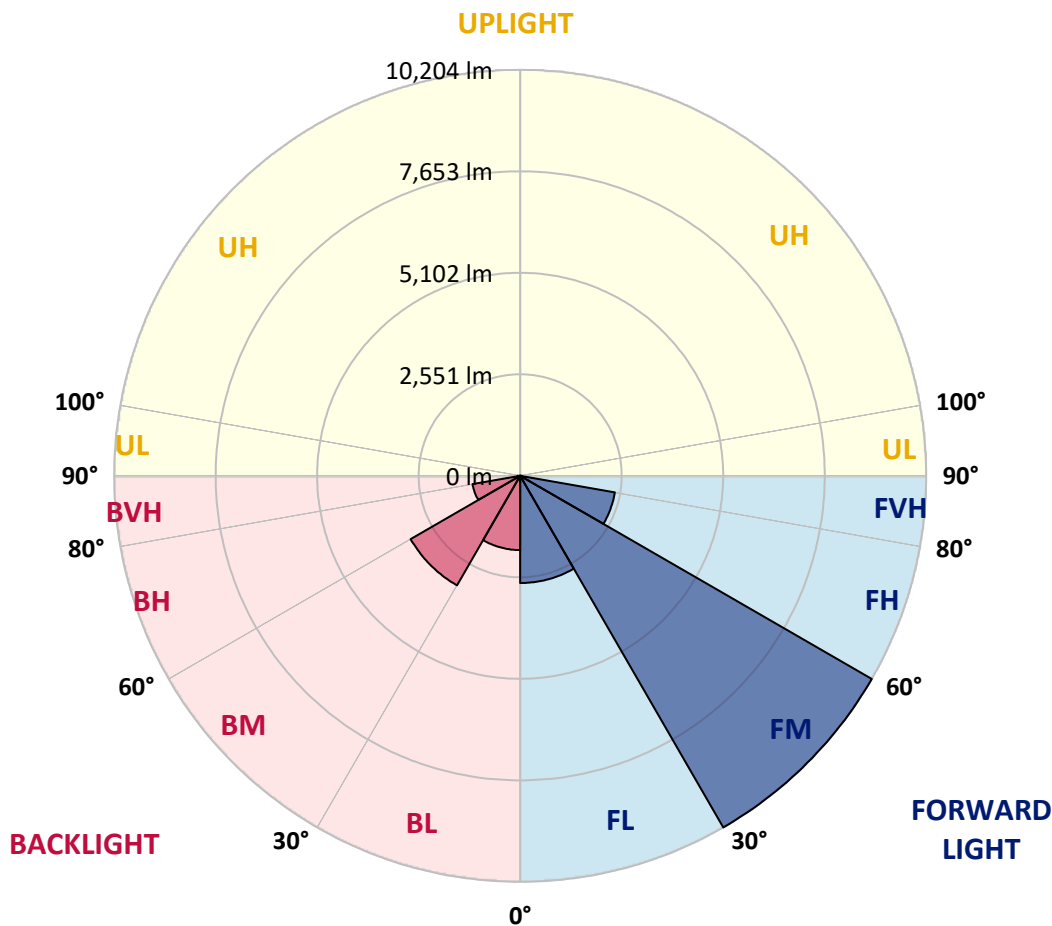
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2695.0	12.4			
FM (30°-60°)	10204.0	47.0			
FH (60°-80°)	2417.4	11.1			G2/5000
FVH (80°-90°)	46.1	0.2			G1/100
BL (0°-30°)	1867.1	8.6	B3/2500		
BM (30°-60°)	3179.0	14.7	B3/5000		
BH (60°-80°)	1215.9	5.6	B3/2500		G3/2500
BVH (80°-90°)	68.6	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°	53°	55°	65°	75°	85°
0°	7176.9	7176.9	7176.9	7176.9	7176.9	7176.9	7176.9	7176.9	7176.9	7176.9	7176.9
2.5°	7087.8	7026.6	7062.8	7048.9	7163.0	7196.4	7179.7	7193.6	7257.6	7227.0	7163.0
5°	6623.1	6709.4	6726.1	6767.8	6834.6	6965.4	7068.4	7096.2	7126.8	7268.7	7254.8
7.5°	6200.1	6258.6	6228.0	6350.4	6495.1	6706.6	6831.8	6854.1	7135.2	7213.1	7271.5
10°	5933.0	5874.5	6013.7	6047.1	6211.3	6453.4	6603.6	6695.5	6951.5	7260.4	7296.6
12.5°	5685.3	5665.8	5749.3	5843.9	6027.6	6278.0	6431.1	6467.3	6862.4	7188.0	7357.8
15°	5501.6	5479.4	5562.9	5632.4	5846.7	6069.3	6264.1	6367.1	6765.0	7146.3	7304.9
17.5°	5356.9	5354.2	5401.5	5526.7	5746.5	5933.0	6247.4	6253.0	6715.0	7210.3	7349.4
20°	5348.6	5345.8	5354.2	5493.3	5693.7	5921.8	6194.6	6244.7	6715.0	7165.8	7352.2
22.5°	5418.2	5373.6	5423.7	5512.8	5657.5	5941.3	6214.0	6325.4	6876.4	7385.6	7477.4
25°	5529.5	5540.6	5568.4	5599.0	5682.5	5985.9	6386.6	6478.4	7065.6	7574.8	7650.0
27.5°	5732.6	5727.0	5738.2	5754.9	5827.2	6027.6	6456.1	6692.7	7460.7	7911.6	7836.4
30°	6030.4	6010.9	6055.4	6113.9	6047.1	6161.2	6687.1	6865.2	7828.1	8251.1	8045.1
32.5°	6300.3	6372.7	6456.1	6481.2	6400.5	6422.8	6993.2	7174.1	8134.2	8668.5	8301.2
35°	6637.0	6695.5	6806.8	6884.7	6870.8	6804.0	7410.7	7650.0	8576.7	8974.6	8571.1
37.5°	6965.4	7035.0	7218.6	7449.6	7321.6	7291.0	7855.9	8053.5	8713.0	9138.8	8768.7
40°	7494.1	7491.4	7808.6	7928.3	8042.4	7989.5	8317.9	8384.6	8785.4	9102.6	8774.2
42.5°	8114.7	8075.8	8398.6	8585.0	8732.5	8738.1	8799.3	8777.0	8818.8	8918.9	8715.8
45°	8704.7	8788.2	9113.7	9447.7	9595.2	9611.9	9205.6	9163.8	8877.2	8866.1	8604.5
47.5°	9425.4	9444.9	9712.1	10151.7	10494.0	10377.1	9731.5	9639.7	9133.2	9219.5	8790.9
50°	9467.2	9611.9	9851.2	10368.8	11420.7	11390.1	10413.3	10240.8	9545.1	9720.4	9311.3
52.5°	8593.4	8560.0	8843.8	9689.8	11351.1	12397.5	11543.1	11131.3	10430.0	10296.4	10154.5
55°	6548.0	6625.9	6876.4	7730.7	9856.8	12411.4	13082.0	12745.3	11376.2	11148.0	10983.8
56°	5743.7	5754.9	5991.4	6770.6	8994.1	11968.9	13374.2	13101.5	11846.5	11498.6	11248.2
57.5°	4761.4	4697.4	4819.8	5245.6	7591.5	11033.9	13054.2	13321.4	12397.5	11877.1	11529.2
60°	3748.5	3734.5	3684.5	3762.4	4797.6	8312.3	10866.9	11468.0	12341.8	11520.9	11042.2
62.5°	3061.1	2991.5	3091.7	3203.0	3333.8	5156.6	7636.1	7989.5	9798.3	9197.2	8295.6
65°	2373.7	2340.4	2465.6	2827.3	2905.3	3275.4	4349.6	4622.3	5785.5	5682.5	5003.5
67.5°	1633.5	1639.1	1747.6	2298.6	2693.8	2660.4	2663.2	2805.1	3019.4	2243.0	1953.5
70°	1035.2	1032.4	1090.9	1480.5	2167.8	2190.1	2078.8	2037.0	1931.3	1168.8	1238.4
72.5°	665.1	645.6	676.2	818.1	1121.5	1296.8	1335.8	1360.8	1118.7	918.3	996.3
75°	375.7	356.2	345.1	381.2	442.5	512.0	562.1	578.8	648.4	695.7	737.4
77.5°	114.1	103.0	125.2	167.0	219.8	295.0	359.0	370.1	436.9	492.6	534.3
80°	50.1	55.7	77.9	111.3	155.8	208.7	253.2	269.9	314.5	356.2	367.3
82.5°	30.6	33.4	52.9	75.1	108.5	147.5	180.9	186.4	231.0	264.4	272.7
85°	11.1	13.9	27.8	44.5	69.6	94.6	94.6	103.0	94.6	94.6	103.0
87.5°	0.0	0.0	2.8	5.6	5.6	8.3	11.1	11.1	13.9	16.7	19.5
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°	7176.9	7176.9	7176.9	7176.9	7176.9	7176.9	7176.9	7176.9	7176.9	7176.9	7176.9
2.5°	7196.4	7182.5	7160.2	7079.5	7071.2	7046.1	6907.0	6884.7	6907.0	6840.2	6845.7
5°	7182.5	7224.2	7057.2	6976.5	6826.3	6717.7	6592.5	6528.5	6414.4	6342.1	6422.8
7.5°	7243.7	7227.0	7018.3	6843.0	6617.6	6342.1	6122.2	5997.0	5796.6	5741.0	5782.7
10°	7221.4	7132.4	6887.5	6656.5	6230.7	5988.6	5632.4	5287.4	5098.1	5000.7	4986.8
12.5°	7190.8	7165.8	6756.7	6358.7	5910.7	5401.5	4900.6	4575.0	4266.1	4132.5	4152.0
15°	7227.0	7015.5	6511.8	6008.1	5412.6	4744.7	4204.8	3784.6	3570.4	3484.1	3484.1
17.5°	7210.3	6943.1	6394.9	5615.7	4861.6	4071.3	3478.5	3225.3	3136.2	3136.2	3161.3
20°	7218.6	6990.5	6158.4	5223.4	4210.4	3428.4	2997.1	2905.3	2944.2	2958.1	2972.1
22.5°	7265.9	6834.6	5927.4	4792.0	3606.5	2933.1	2721.6	2724.4	2794.0	2869.1	2855.2
25°	7324.4	6773.4	5646.3	4363.5	3144.6	2691.0	2624.2	2615.9	2668.7	2707.7	2713.3
27.5°	7274.3	6667.6	5359.7	3829.2	2766.1	2529.6	2515.7	2521.2	2537.9	2615.9	2590.8
30°	7438.5	6698.3	5000.7	3381.1	2557.4	2476.7	2460.0	2451.7	2476.7	2499.0	2479.5
32.5°	7641.6	6589.7	4733.6	2949.8	2454.4	2437.8	2404.4	2393.2	2407.1	2384.9	2396.0
35°	7730.7	6570.2	4385.7	2640.9	2373.7	2359.8	2340.4	2337.6	2340.4	2320.9	2304.2
37.5°	7780.8	6662.1	3987.8	2499.0	2323.7	2337.6	2293.0	2287.5	2237.4	2248.5	2256.9
40°	7867.0	6520.2	3665.0	2362.6	2293.0	2265.2	2226.3	2217.9	2184.5	2165.0	2184.5
42.5°	7741.8	6478.4	3347.7	2304.2	2248.5	2217.9	2190.1	2142.8	2131.6	2114.9	2103.8
45°	7641.6	6239.1	3063.9	2231.8	2195.6	2179.0	2126.1	2076.0	2034.2	2050.9	2025.9
47.5°	7716.8	6155.6	2782.8	2170.6	2123.3	2103.8	2050.9	2012.0	1970.2	1950.8	1945.2
50°	8017.3	6311.4	2546.3	2126.1	2062.1	2050.9	1981.4	1936.8	1897.9	1884.0	1889.5
52.5°	8735.3	6737.2	2384.9	2034.2	2003.6	1953.5	1914.6	1858.9	1833.9	1789.4	1817.2
55°	9645.3	7430.1	2343.1	1948.0	1931.3	1886.8	1833.9	1792.1	1744.8	1708.7	1700.3
56°	9937.5	7761.3	2309.7	1914.6	1886.8	1861.7	1792.1	1767.1	1692.0	1683.6	1678.0
57.5°	10174.0	8053.5	2315.3	1850.6	1822.7	1800.5	1758.7	1697.5	1647.4	1616.8	1630.7
60°	9639.7	7538.7	2209.6	1753.2	1747.6	1705.9	1647.4	1619.6	1558.4	1522.2	1513.9
62.5°	7165.8	5117.6	1792.1	1628.0	1625.2	1580.6	1513.9	1483.2	1472.1	1422.0	1422.0
65°	4126.9	3208.6	1550.0	1525.0	1502.7	1458.2	1391.4	1366.4	1338.5	1321.8	1307.9
67.5°	1761.5	1664.1	1408.1	1405.3	1380.3	1324.6	1257.8	1218.9	1182.7	1149.3	1166.0
70°	1277.3	1296.8	1271.7	1257.8	1227.2	1157.7	1099.2	1051.9	996.3	974.0	990.7
72.5°	1012.9	1054.7	1090.9	1093.6	1057.5	976.8	912.8	848.8	787.5	756.9	770.8
75°	768.1	795.9	832.1	840.4	787.5	731.9	670.7	603.9	556.6	520.4	526.0
77.5°	553.8	548.2	581.6	576.0	551.0	512.0	456.4	395.2	342.3	308.9	311.7
80°	378.5	386.8	406.3	403.5	372.9	347.9	306.1	256.0	217.1	189.2	183.7
82.5°	264.4	278.3	295.0	281.1	256.0	231.0	200.4	164.2	133.6	111.3	105.7
85°	94.6	108.5	125.2	133.6	141.9	136.4	114.1	91.8	66.8	55.7	52.9
87.5°	19.5	22.3	25.0	25.0	25.0	22.3	19.5	19.5	16.7	8.3	8.3
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)