

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: P532756

Luminaire Tested: **GALN-SA8A-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532756
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-SA8A-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 23009 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

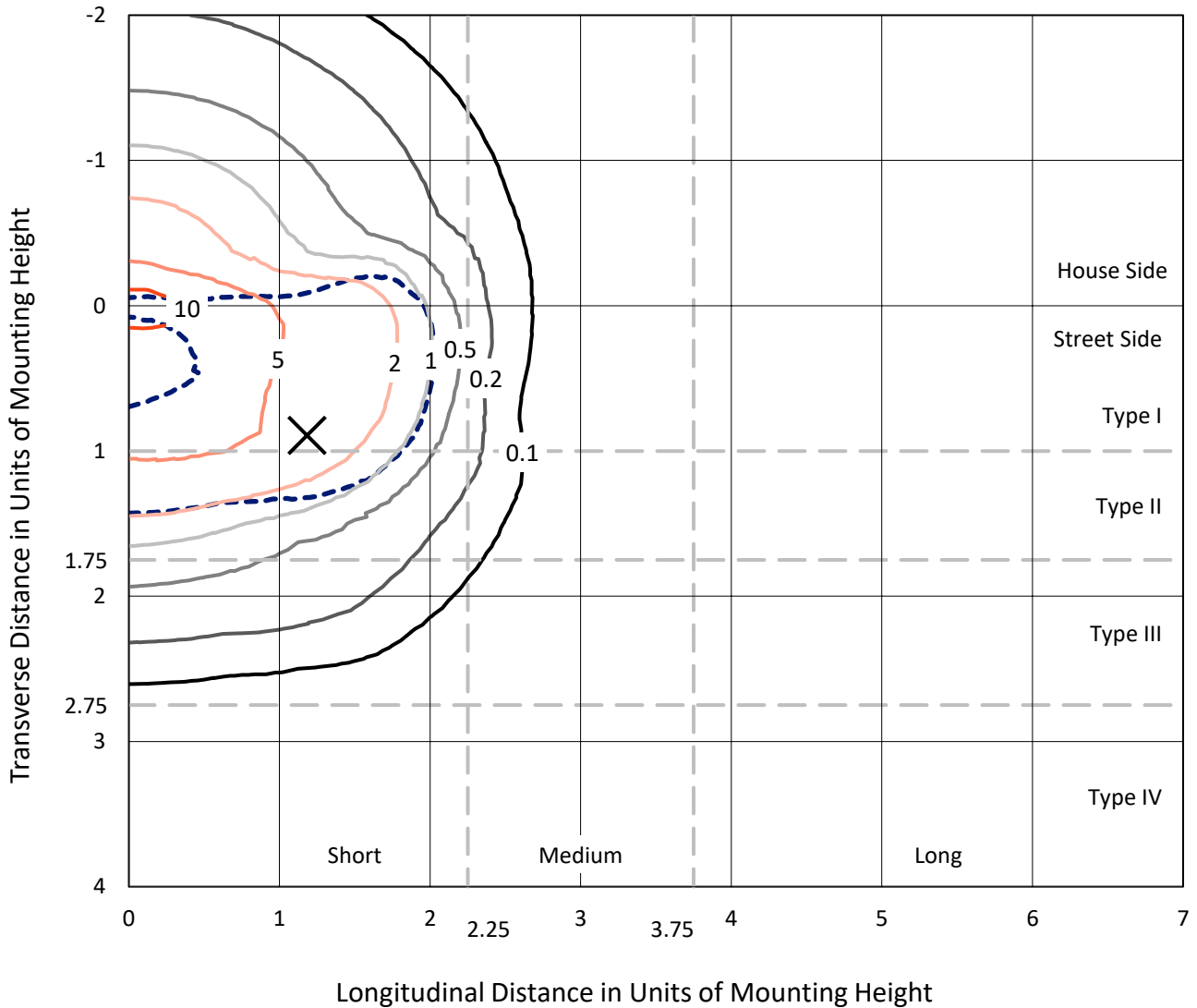
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

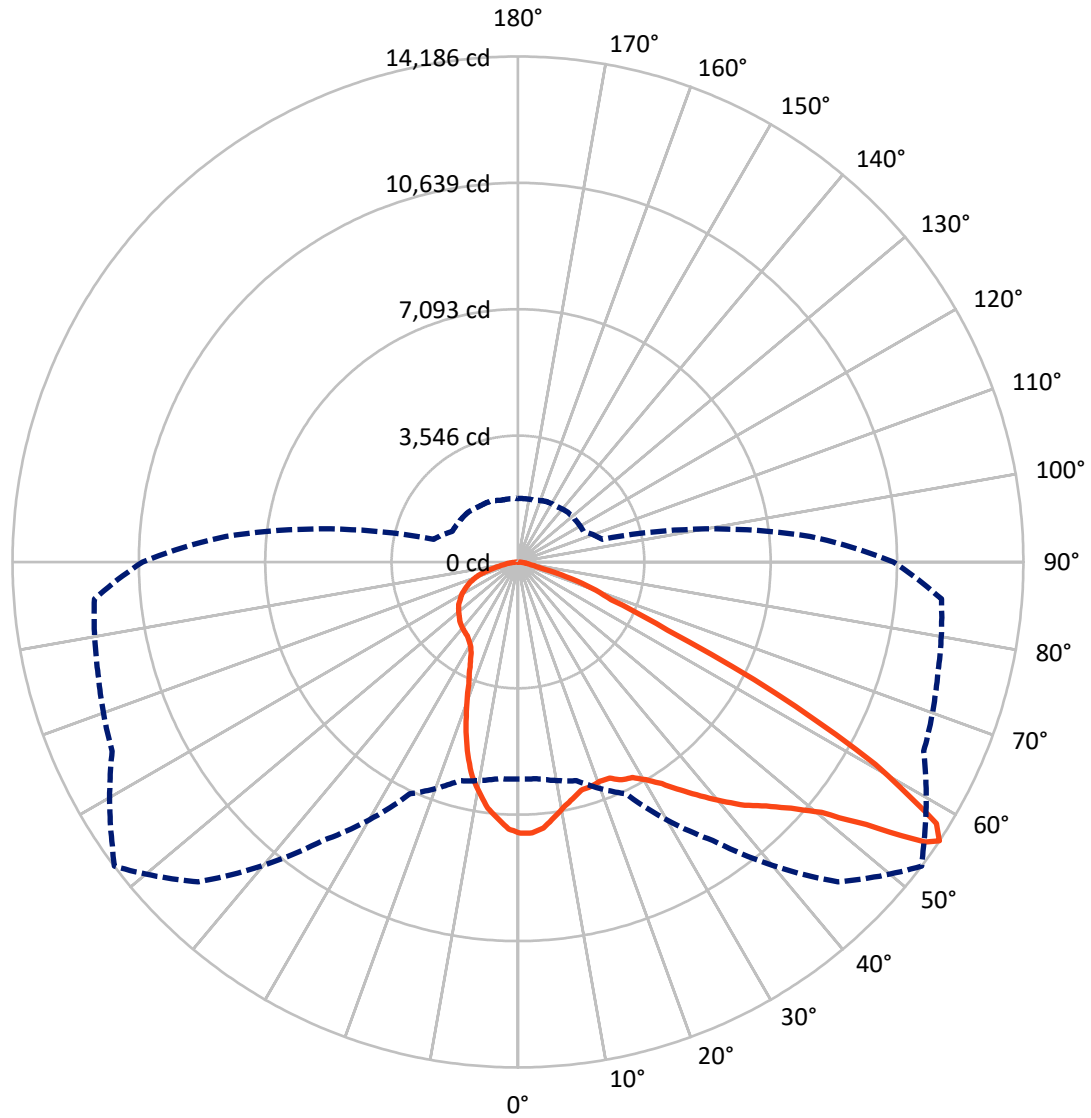
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 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	6714.5	0.0	6714.5
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	16294.5	0.0	16294.5
	% Fixture	70.8	0.0	70.8
Total	Lumens	23009.0	0.0	23009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.9	2.9
10°-20°	1683.1	7.3
20°-30°	2481.9	10.8
30°-40°	3546.2	15.4
40°-50°	4880.8	21.2
50°-60°	5767.8	25.1
60°-70°	3073.9	13.4
70°-80°	779.8	3.4
80°-90°	121.6	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°	23009.0	100.0
0°-180°	23009.0	100.0

Coefficient of Utilization



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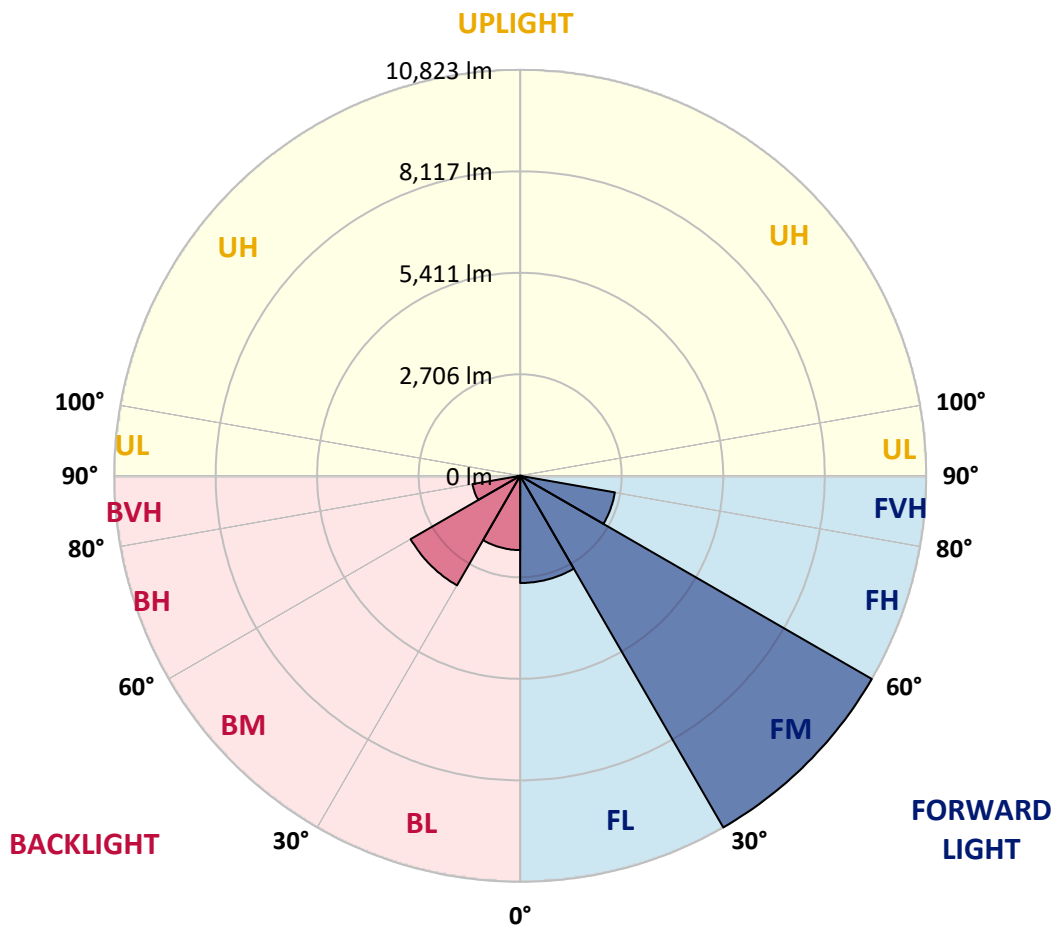
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2858.5	12.4			
FM (30°-60°)	10823.0	47.0			
FH (60°-80°)	2564.1	11.1			G2/5000
FVH (80°-90°)	48.9	0.2			G1/100
BL (0°-30°)	1980.4	8.6	B3/2500		
BM (30°-60°)	3371.8	14.7	B3/5000		
BH (60°-80°)	1289.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	72.7	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°	7612.3	7612.3	7612.3	7612.3	7612.3	7612.3	7612.3	7612.3	7612.3	7612.3	7612.3
2.5°	7517.8	7452.9	7491.3	7476.5	7597.5	7632.9	7615.2	7630.0	7697.9	7665.4	7597.5
5°	7024.9	7116.4	7134.1	7178.4	7249.2	7388.0	7497.2	7526.7	7559.2	7709.7	7694.9
7.5°	6576.3	6638.2	6605.8	6735.6	6889.1	7113.5	7246.3	7269.9	7568.0	7650.7	7712.6
10°	6292.9	6230.9	6378.5	6413.9	6588.1	6844.9	7004.2	7101.6	7373.2	7700.8	7739.2
12.5°	6030.2	6009.5	6098.1	6198.4	6393.3	6658.9	6821.2	6859.6	7278.7	7624.1	7804.1
15°	5835.4	5811.8	5900.3	5974.1	6201.4	6437.5	6644.1	6753.4	7175.4	7579.8	7748.1
17.5°	5681.9	5679.0	5729.1	5862.0	6095.1	6292.9	6626.4	6632.3	7122.3	7647.7	7795.3
20°	5673.1	5670.1	5679.0	5826.5	6039.1	6281.1	6570.4	6623.5	7122.3	7600.5	7798.2
22.5°	5746.8	5699.6	5752.7	5847.2	6000.7	6301.8	6591.0	6709.1	7293.5	7833.7	7931.1
25°	5864.9	5876.7	5906.2	5938.7	6027.3	6349.0	6774.0	6871.4	7494.2	8034.4	8114.1
27.5°	6080.4	6074.5	6086.3	6104.0	6180.7	6393.3	6847.8	7098.7	7913.4	8391.5	8311.8
30°	6396.2	6375.5	6422.8	6484.8	6413.9	6534.9	7092.8	7281.7	8303.0	8751.6	8533.2
32.5°	6682.5	6759.3	6847.8	6874.4	6788.8	6812.4	7417.5	7609.3	8627.6	9194.4	8804.7
35°	7039.7	7101.6	7219.7	7302.4	7287.6	7216.8	7860.2	8114.1	9097.0	9519.0	9091.1
37.5°	7388.0	7461.8	7656.6	7901.5	7765.8	7733.3	8332.5	8542.1	9241.6	9693.2	9300.6
40°	7948.8	7945.8	8282.3	8409.2	8530.2	8474.2	8822.5	8893.3	9318.3	9654.8	9306.5
42.5°	8607.0	8565.7	8908.1	9105.8	9262.3	9268.2	9333.1	9309.5	9353.8	9460.0	9244.5
45°	9232.7	9321.3	9666.6	10020.8	10177.3	10195.0	9764.0	9719.8	9415.7	9403.9	9126.5
47.5°	9997.2	10017.9	10301.2	10767.6	11130.6	11006.7	10321.9	10224.5	9687.3	9778.8	9324.2
50°	10041.5	10195.0	10448.8	10997.8	12113.5	12081.1	11045.0	10862.0	10124.1	10310.1	9876.2
52.5°	9114.7	9079.2	9380.3	10277.6	12039.7	13149.6	12243.4	11806.6	11062.8	10921.1	10770.5
55°	6945.2	7027.9	7293.5	8199.7	10454.7	13164.3	13875.7	13518.5	12066.3	11824.3	11650.1
56°	6092.2	6104.0	6354.9	7181.3	9539.7	12695.0	14185.6	13896.3	12565.1	12196.2	11930.5
57.5°	5050.3	4982.4	5112.2	5563.8	8052.1	11703.3	13846.2	14129.5	13149.6	12597.6	12228.7
60°	3975.9	3961.1	3908.0	3990.6	5088.6	8816.6	11526.2	12163.7	13090.5	12219.8	11712.1
62.5°	3246.8	3173.0	3279.3	3397.3	3536.1	5469.4	8099.3	8474.2	10392.7	9755.2	8798.8
65°	2517.8	2482.3	2615.2	2998.9	3081.5	3474.1	4613.4	4902.7	6136.5	6027.3	5307.1
67.5°	1732.6	1738.5	1853.6	2438.1	2857.2	2821.8	2824.7	2975.3	3202.5	2379.0	2072.1
70°	1098.0	1095.1	1157.0	1570.3	2299.3	2322.9	2204.9	2160.6	2048.4	1239.7	1313.5
72.5°	705.4	684.8	717.2	867.8	1189.5	1375.5	1416.8	1443.4	1186.6	974.0	1056.7
75°	398.5	377.8	366.0	404.4	469.3	543.1	596.2	613.9	687.7	737.9	782.2
77.5°	121.0	109.2	132.8	177.1	233.2	312.9	380.8	392.6	463.4	522.4	566.7
80°	53.1	59.0	82.6	118.1	165.3	221.4	268.6	286.3	333.5	377.8	389.6
82.5°	32.5	35.4	56.1	79.7	115.1	156.4	191.9	197.8	245.0	280.4	289.3
85°	11.8	14.8	29.5	47.2	73.8	100.4	100.4	109.2	100.4	100.4	109.2
87.5°	0.0	0.0	3.0	5.9	5.9	8.9	11.8	11.8	14.8	17.7	20.7
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°	7612.3	7612.3	7612.3	7612.3	7612.3	7612.3	7612.3	7612.3	7612.3	7612.3	7612.3
2.5°	7632.9	7618.2	7594.6	7509.0	7500.1	7473.6	7326.0	7302.4	7326.0	7255.1	7261.0
5°	7618.2	7662.5	7485.4	7399.8	7240.4	7125.3	6992.4	6924.6	6803.5	6726.8	6812.4
7.5°	7683.1	7665.4	7444.0	7258.1	7019.0	6726.8	6493.6	6360.8	6148.3	6089.2	6133.5
10°	7659.5	7565.1	7305.3	7060.3	6608.7	6351.9	5974.1	5608.1	5407.4	5304.1	5289.3
12.5°	7627.0	7600.5	7166.6	6744.5	6269.3	5729.1	5197.8	4852.5	4524.9	4383.2	4403.8
15°	7665.4	7441.1	6906.8	6372.6	5740.9	5032.5	4459.9	4014.2	3787.0	3695.5	3695.5
17.5°	7647.7	7364.3	6782.9	5956.4	5156.5	4318.3	3689.6	3421.0	3326.5	3326.5	3353.1
20°	7656.6	7414.5	6532.0	5540.2	4465.8	3636.4	3178.9	3081.5	3122.8	3137.6	3152.4
22.5°	7706.7	7249.2	6287.0	5082.7	3825.3	3111.0	2886.7	2889.7	2963.4	3043.1	3028.4
25°	7768.7	7184.3	5988.9	4628.2	3335.4	2854.2	2783.4	2774.5	2830.6	2871.9	2877.9
27.5°	7715.6	7072.1	5684.9	4061.5	2933.9	2683.0	2668.3	2674.2	2691.9	2774.5	2748.0
30°	7889.7	7104.6	5304.1	3586.2	2712.6	2627.0	2609.3	2600.4	2627.0	2650.6	2629.9
32.5°	8105.2	6989.5	5020.7	3128.7	2603.3	2585.6	2550.2	2538.4	2553.2	2529.6	2541.4
35°	8199.7	6968.8	4651.8	2801.1	2517.8	2503.0	2482.3	2479.4	2482.3	2461.7	2444.0
37.5°	8252.8	7066.2	4229.7	2650.6	2464.6	2479.4	2432.2	2426.2	2373.1	2384.9	2393.8
40°	8344.3	6915.7	3887.3	2505.9	2432.2	2402.6	2361.3	2352.5	2317.0	2296.4	2317.0
42.5°	8211.5	6871.4	3550.8	2444.0	2384.9	2352.5	2322.9	2272.8	2261.0	2243.2	2231.4
45°	8105.2	6617.6	3249.8	2367.2	2328.8	2311.1	2255.1	2201.9	2157.7	2175.4	2148.8
47.5°	8184.9	6529.0	2951.6	2302.3	2252.1	2231.4	2175.4	2134.0	2089.8	2069.1	2063.2
50°	8503.7	6694.3	2700.8	2255.1	2187.2	2175.4	2101.6	2054.3	2013.0	1998.3	2004.2
52.5°	9265.2	7145.9	2529.6	2157.7	2125.2	2072.1	2030.7	1971.7	1945.1	1897.9	1927.4
55°	10230.4	7880.9	2485.3	2066.1	2048.4	2001.2	1945.1	1900.9	1850.7	1812.3	1803.5
56°	10540.3	8232.1	2449.9	2030.7	2001.2	1974.6	1900.9	1874.3	1794.6	1785.7	1779.8
57.5°	10791.2	8542.1	2455.8	1962.8	1933.3	1909.7	1865.4	1800.5	1747.4	1714.9	1729.7
60°	10224.5	7996.0	2343.6	1859.5	1853.6	1809.4	1747.4	1717.9	1652.9	1614.5	1605.7
62.5°	7600.5	5428.1	1900.9	1726.7	1723.8	1676.5	1605.7	1573.2	1561.4	1508.3	1508.3
65°	4377.3	3403.2	1644.1	1617.5	1593.9	1546.7	1475.8	1449.3	1419.7	1402.0	1387.3
67.5°	1868.4	1765.1	1493.5	1490.6	1464.0	1405.0	1334.1	1292.8	1254.4	1219.0	1236.7
70°	1354.8	1375.5	1348.9	1334.1	1301.7	1227.9	1165.9	1115.7	1056.7	1033.1	1050.8
72.5°	1074.4	1118.7	1157.0	1160.0	1121.6	1036.0	968.1	900.3	835.3	802.8	817.6
75°	814.7	844.2	882.5	891.4	835.3	776.3	711.3	640.5	590.3	552.0	557.9
77.5°	587.4	581.5	616.9	611.0	584.4	543.1	484.1	419.1	363.1	327.6	330.6
80°	401.4	410.3	430.9	428.0	395.5	369.0	324.7	271.6	230.2	200.7	194.8
82.5°	280.4	295.2	312.9	298.1	271.6	245.0	212.5	174.1	141.7	118.1	112.2
85°	100.4	115.1	132.8	141.7	150.5	144.6	121.0	97.4	70.8	59.0	56.1
87.5°	20.7	23.6	26.6	26.6	26.6	23.6	20.7	20.7	17.7	8.9	8.9
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)