

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: P531352

Luminaire Tested: **GALN-SA6C-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531352
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-SA6C-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA 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: 25976 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

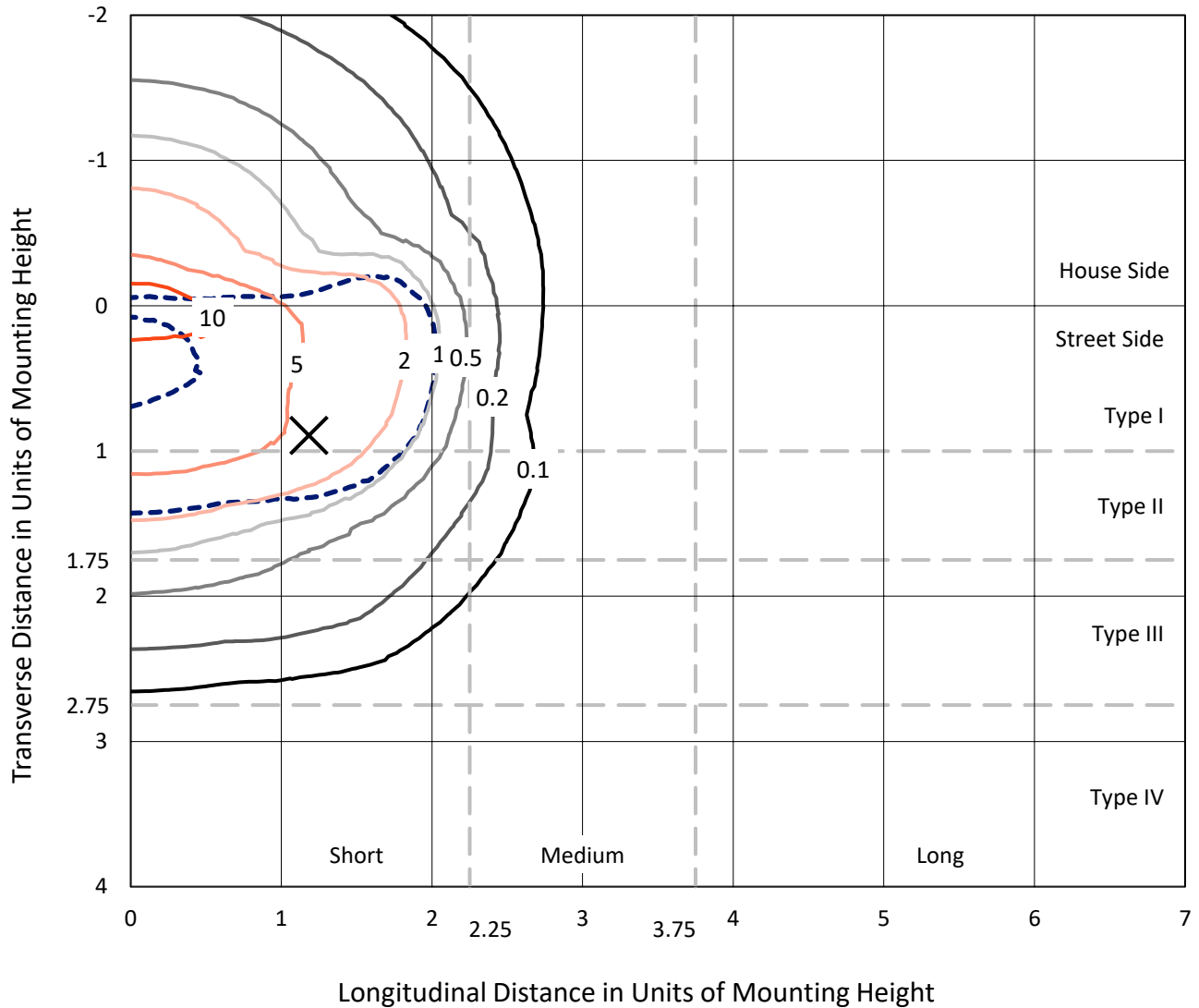
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

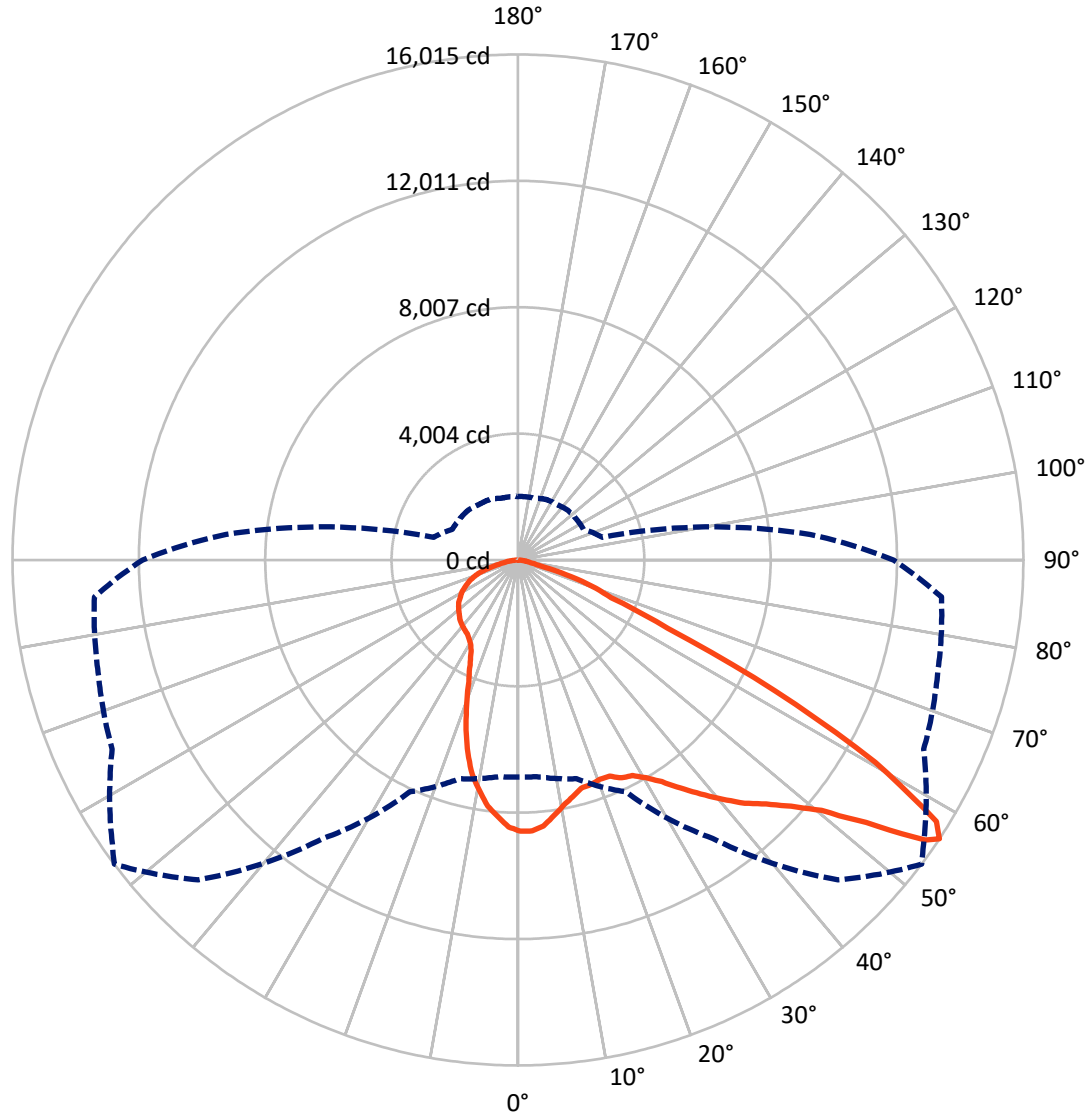
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	7580.4	0.0	7580.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	18395.6	0.0	18395.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	25976.0	0.0	25976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.8	2.9
10°-20°	1900.2	7.3
20°-30°	2801.9	10.8
30°-40°	4003.4	15.4
40°-50°	5510.2	21.2
50°-60°	6511.6	25.1
60°-70°	3470.2	13.4
70°-80°	880.4	3.4
80°-90°	137.3	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°	25976.0	100.0
0°-180°	25976.0	100.0

Coefficient of Utilization



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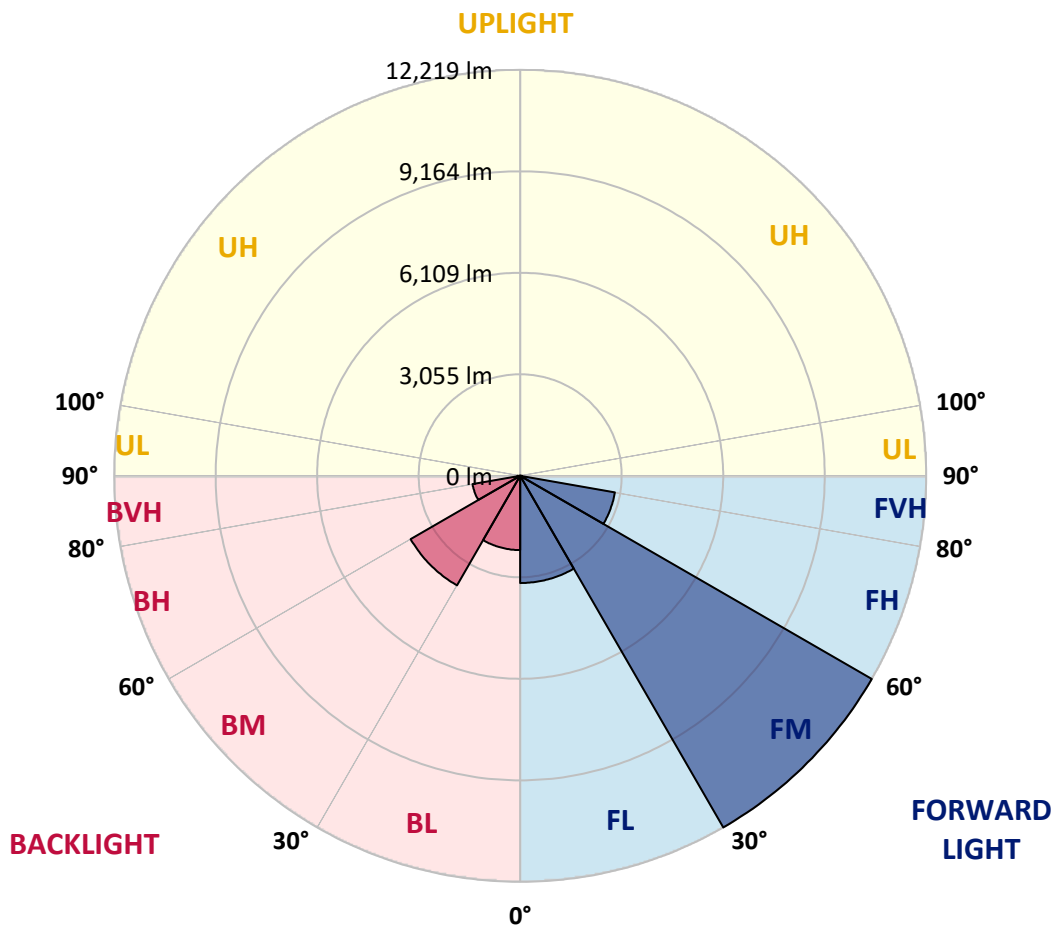
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3227.1	12.4			
FM (30°-60°)	12218.6	47.0			
FH (60°-80°)	2894.7	11.1			G2/5000
FVH (80°-90°)	55.2	0.2			G1/100
BL (0°-30°)	2235.8	8.6	B3/2500		
BM (30°-60°)	3806.6	14.7	B3/5000		
BH (60°-80°)	1455.9	5.6	B3/2500		G3/2500
BVH (80°-90°)	82.1	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°	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9
2.5°	8487.3	8413.9	8457.3	8440.6	8577.2	8617.2	8597.2	8613.9	8690.5	8653.9	8577.2
5°	7930.8	8034.1	8054.1	8104.0	8184.0	8340.6	8463.9	8497.2	8533.9	8703.8	8687.2
7.5°	7424.3	7494.2	7457.6	7604.2	7777.5	8030.7	8180.7	8207.3	8543.9	8637.2	8707.2
10°	7104.4	7034.4	7201.0	7241.0	7437.6	7727.5	7907.4	8017.4	8324.0	8693.9	8737.2
12.5°	6807.8	6784.5	6884.4	6997.7	7217.7	7517.6	7700.8	7744.2	8217.3	8607.2	8810.5
15°	6587.9	6561.2	6661.2	6744.5	7001.1	7267.6	7500.9	7624.2	8100.7	8557.2	8747.2
17.5°	6414.6	6411.3	6467.9	6617.9	6881.1	7104.4	7480.9	7487.6	8040.7	8633.9	8800.5
20°	6404.6	6401.3	6411.3	6577.9	6817.8	7091.0	7417.6	7477.6	8040.7	8580.6	8803.8
22.5°	6487.9	6434.6	6494.6	6601.2	6774.5	7114.4	7440.9	7574.2	8234.0	8843.8	8953.8
25°	6621.2	6634.5	6667.8	6704.5	6804.5	7167.7	7647.5	7757.5	8460.6	9070.4	9160.4
27.5°	6864.4	6857.8	6871.1	6891.1	6977.7	7217.7	7730.8	8014.1	8933.8	9473.6	9383.6
30°	7221.0	7197.7	7251.0	7321.0	7241.0	7377.6	8007.4	8220.7	9373.6	9880.1	9633.5
32.5°	7544.2	7630.9	7730.8	7760.8	7664.2	7690.8	8374.0	8590.6	9740.2	10380.0	9940.1
35°	7947.4	8017.4	8150.7	8244.0	8227.3	8147.4	8873.8	9160.4	10270.0	10746.5	10263.3
37.5°	8340.6	8423.9	8643.9	8920.4	8767.2	8730.5	9407.0	9643.5	10433.3	10943.1	10499.9
40°	8973.8	8970.4	9350.3	9493.6	9630.2	9566.9	9960.1	10040.1	10519.9	10899.8	10506.6
42.5°	9716.9	9670.2	10056.7	10280.0	10456.6	10463.3	10536.6	10509.9	10559.9	10679.9	10436.6
45°	10423.3	10523.3	10913.1	11313.0	11489.6	11509.6	11023.1	10973.1	10629.9	10616.6	10303.3
47.5°	11286.3	11309.7	11629.6	12156.1	12565.9	12426.0	11652.9	11542.9	10936.5	11039.8	10526.6
50°	11336.3	11509.6	11796.2	12416.0	13675.6	13638.9	12469.3	12262.7	11429.6	11639.6	11149.7
52.5°	10290.0	10250.0	10589.9	11602.9	13592.3	14845.2	13822.2	13329.0	12489.3	12329.3	12159.4
55°	7840.8	7934.1	8234.0	9257.0	11802.8	14861.9	15664.9	15261.7	13622.3	13349.0	13152.4
56°	6877.8	6891.1	7174.3	8107.4	10769.8	14332.0	16014.8	15688.3	14185.4	13768.9	13469.0
57.5°	5701.5	5624.8	5771.5	6281.3	9090.4	13212.4	15631.6	15951.5	14845.2	14222.1	13805.5
60°	4488.5	4471.9	4411.9	4505.2	5744.8	9953.4	13012.5	13732.2	14778.5	13795.5	13222.4
62.5°	3665.5	3582.2	3702.1	3835.4	3992.0	6174.7	9143.7	9566.9	11732.9	11013.1	9933.5
65°	2842.4	2802.4	2952.4	3385.6	3478.9	3922.1	5208.3	5534.9	6927.8	6804.5	5991.4
67.5°	1956.0	1962.7	2092.7	2752.4	3225.6	3185.6	3189.0	3358.9	3615.5	2685.8	2339.2
70°	1239.6	1236.3	1306.2	1772.8	2595.8	2622.5	2489.2	2439.2	2312.6	1399.5	1482.9
72.5°	796.4	773.1	809.7	979.7	1342.9	1552.8	1599.5	1629.5	1339.6	1099.6	1192.9
75°	449.9	426.5	413.2	456.5	529.8	613.1	673.1	693.1	776.4	833.1	883.0
77.5°	136.6	123.3	150.0	199.9	263.2	353.2	429.9	443.2	523.2	589.8	639.8
80°	60.0	66.6	93.3	133.3	186.6	249.9	303.2	323.2	376.5	426.5	439.9
82.5°	36.7	40.0	63.3	90.0	130.0	176.6	216.6	223.3	276.6	316.6	326.6
85°	13.3	16.7	33.3	53.3	83.3	113.3	113.3	123.3	113.3	113.3	123.3
87.5°	0.0	0.0	3.3	6.7	6.7	10.0	13.3	13.3	16.7	20.0	23.3
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°	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9
2.5°	8617.2	8600.5	8573.9	8477.3	8467.3	8437.3	8270.7	8244.0	8270.7	8190.7	8197.3
5°	8600.5	8650.5	8450.6	8354.0	8174.0	8044.1	7894.1	7817.5	7680.8	7594.2	7690.8
7.5°	8673.9	8653.9	8403.9	8194.0	7924.1	7594.2	7331.0	7181.0	6941.1	6874.4	6924.4
10°	8647.2	8540.6	8247.3	7970.8	7460.9	7171.0	6744.5	6331.3	6104.7	5988.1	5971.4
12.5°	8610.5	8580.6	8090.7	7614.2	7077.7	6467.9	5868.1	5478.2	5108.3	4948.4	4971.7
15°	8653.9	8400.6	7797.5	7194.3	6481.2	5681.5	5035.0	4531.9	4275.3	4172.0	4172.0
17.5°	8633.9	8314.0	7657.5	6724.5	5821.4	4875.1	4165.3	3862.1	3755.5	3755.5	3785.4
20°	8643.9	8370.6	7374.3	6254.6	5041.7	4105.3	3588.8	3478.9	3525.5	3542.2	3558.8
22.5°	8700.5	8184.0	7097.7	5738.1	4318.6	3512.2	3258.9	3262.3	3345.6	3435.6	3418.9
25°	8770.5	8110.7	6761.1	5225.0	3765.4	3222.3	3142.3	3132.3	3195.6	3242.3	3248.9
27.5°	8710.5	7984.1	6417.9	4585.2	3312.3	3029.0	3012.4	3019.0	3039.0	3132.3	3102.3
30°	8907.1	8020.7	5988.1	4048.7	3062.3	2965.7	2945.7	2935.7	2965.7	2992.4	2969.0
32.5°	9150.4	7890.8	5668.2	3532.2	2939.0	2919.1	2879.1	2865.7	2882.4	2855.7	2869.1
35°	9257.0	7867.5	5251.6	3162.3	2842.4	2825.8	2802.4	2799.1	2802.4	2779.1	2759.1
37.5°	9317.0	7977.4	4775.1	2992.4	2782.4	2799.1	2745.8	2739.1	2679.1	2692.5	2702.5
40°	9420.3	7807.5	4388.6	2829.1	2745.8	2712.5	2665.8	2655.8	2615.8	2592.5	2615.8
42.5°	9270.3	7757.5	4008.7	2759.1	2692.5	2655.8	2622.5	2565.8	2552.5	2532.5	2519.2
45°	9150.4	7470.9	3668.8	2672.5	2629.1	2609.2	2545.8	2485.9	2435.9	2455.9	2425.9
47.5°	9240.3	7370.9	3332.3	2599.2	2542.5	2519.2	2455.9	2409.2	2359.2	2335.9	2329.2
50°	9600.2	7557.6	3049.0	2545.8	2469.2	2455.9	2372.6	2319.2	2272.6	2255.9	2262.6
52.5°	10459.9	8067.4	2855.7	2435.9	2399.2	2339.2	2292.6	2225.9	2196.0	2142.6	2176.0
55°	11549.6	8897.1	2805.8	2332.6	2312.6	2259.3	2196.0	2146.0	2089.3	2046.0	2036.0
56°	11899.5	9293.7	2765.8	2292.6	2259.3	2229.3	2146.0	2116.0	2026.0	2016.0	2009.3
57.5°	12182.7	9643.5	2772.4	2215.9	2182.6	2156.0	2106.0	2032.7	1972.7	1936.0	1952.7
60°	11542.9	9027.1	2645.8	2099.3	2092.7	2042.7	1972.7	1939.4	1866.1	1822.7	1812.7
62.5°	8580.6	6128.0	2146.0	1949.4	1946.0	1892.7	1812.7	1776.1	1762.8	1702.8	1702.8
65°	4941.7	3842.1	1856.1	1826.1	1799.4	1746.1	1666.1	1636.1	1602.8	1582.8	1566.2
67.5°	2109.3	1992.7	1686.1	1682.8	1652.8	1586.2	1506.2	1459.5	1416.2	1376.2	1396.2
70°	1529.5	1552.8	1522.8	1506.2	1469.5	1386.2	1316.2	1259.6	1192.9	1166.3	1186.3
72.5°	1212.9	1262.9	1306.2	1309.6	1266.3	1169.6	1093.0	1016.3	943.0	906.4	923.0
75°	919.7	953.0	996.3	1006.3	943.0	876.4	803.1	723.1	666.5	623.1	629.8
77.5°	663.1	656.5	696.4	689.8	659.8	613.1	546.5	473.2	409.9	369.9	373.2
80°	453.2	463.2	486.5	483.2	446.5	416.5	366.5	306.6	259.9	226.6	219.9
82.5°	316.6	333.2	353.2	336.6	306.6	276.6	239.9	196.6	159.9	133.3	126.6
85°	113.3	130.0	150.0	159.9	169.9	163.3	136.6	110.0	80.0	66.6	63.3
87.5°	23.3	26.7	30.0	30.0	30.0	26.7	23.3	23.3	20.0	10.0	10.0
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)