

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: P532990

Luminaire Tested: **GALN-SA8B-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532990
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-SA8B-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA 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: 28629 lumens
Efficiency: N/A
Efficacy: 88.1 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

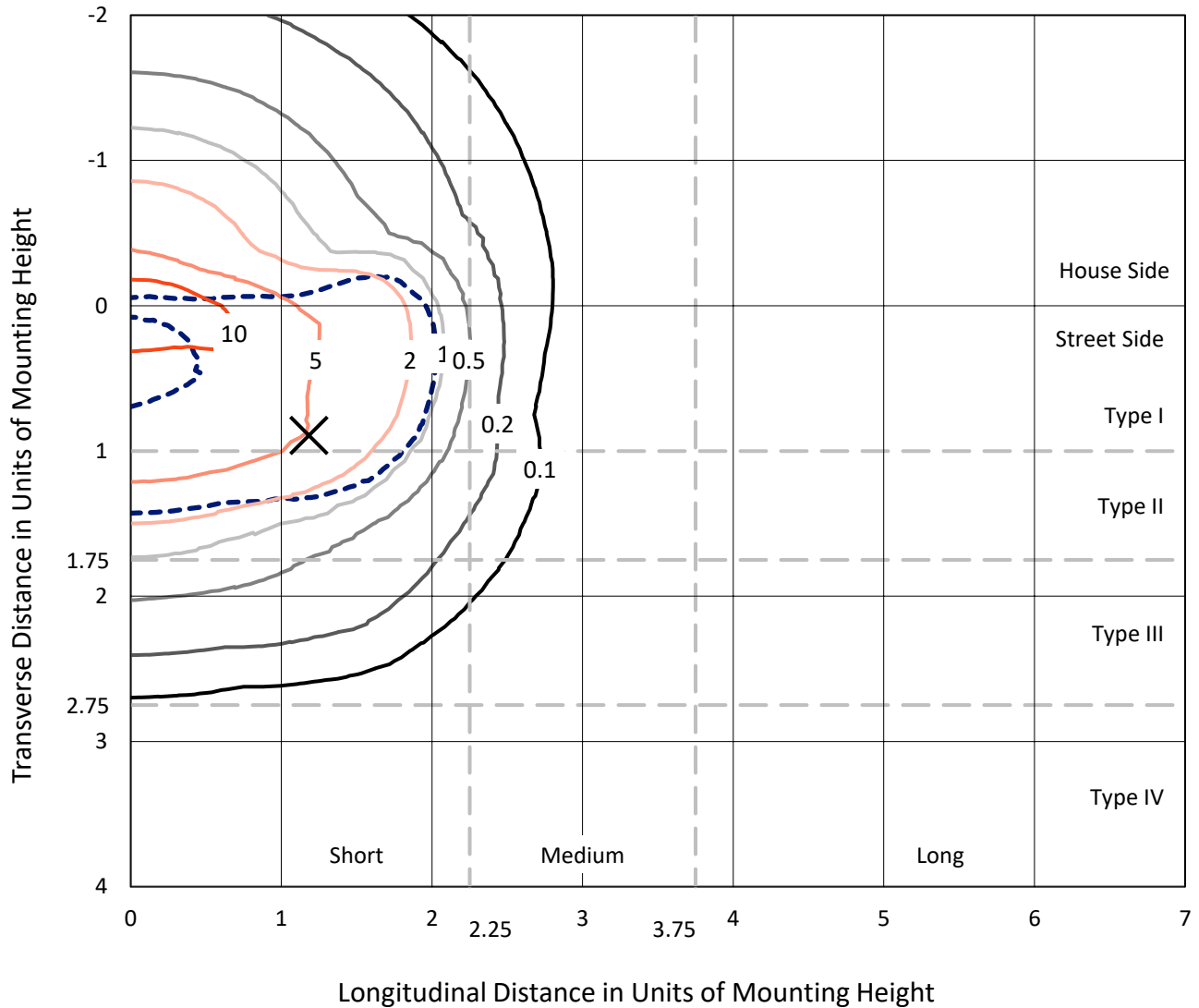
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

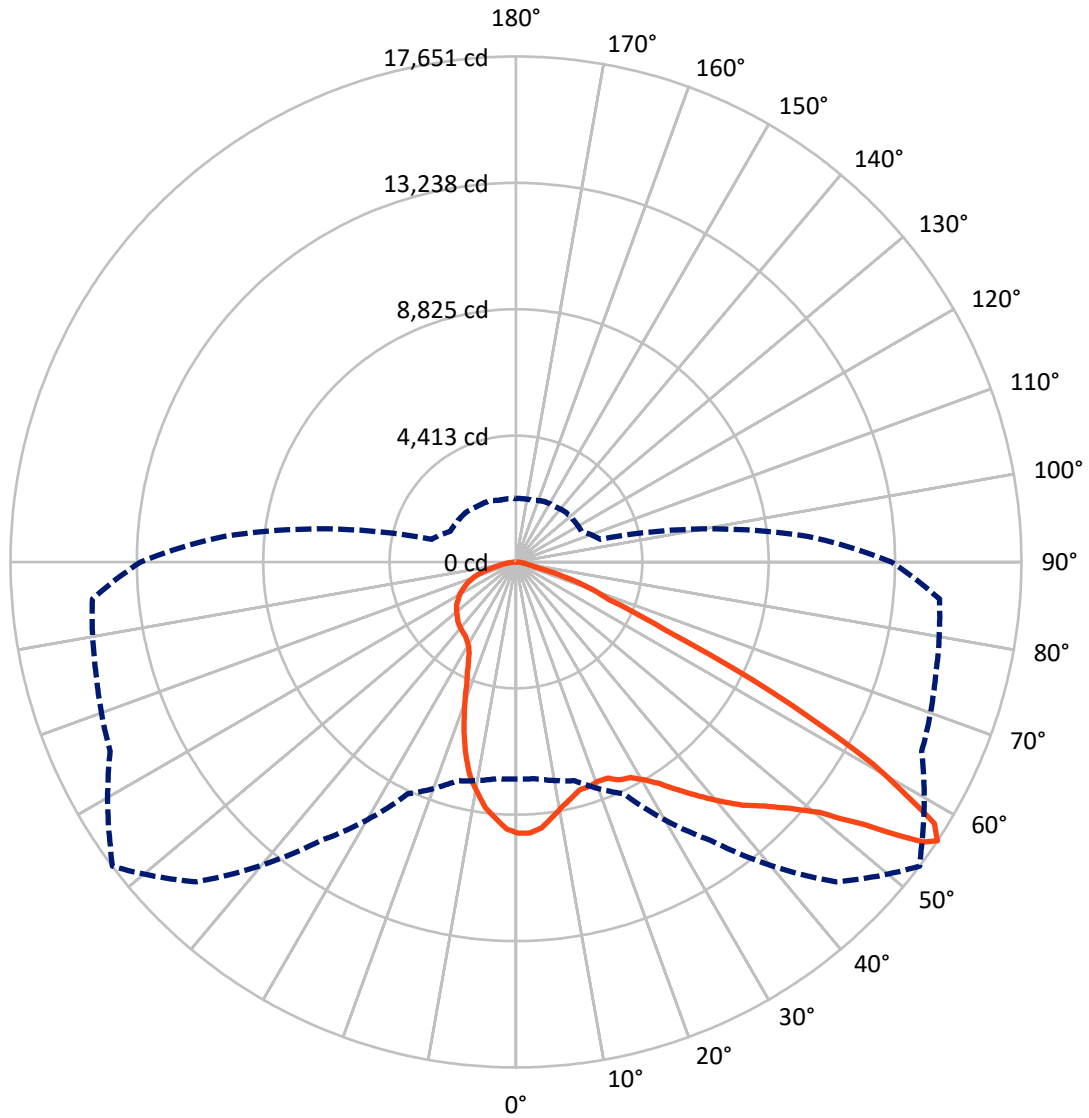
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.2 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	8354.6	0.0	8354.6
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	20274.4	0.0	20274.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	28629.0	0.0	28629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	838.5	2.9
10°-20°	2094.2	7.3
20°-30°	3088.1	10.8
30°-40°	4412.3	15.4
40°-50°	6073.0	21.2
50°-60°	7176.6	25.1
60°-70°	3824.7	13.4
70°-80°	970.3	3.4
80°-90°	151.3	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°	28629.0	100.0
0°-180°	28629.0	100.0

Coefficient of Utilization



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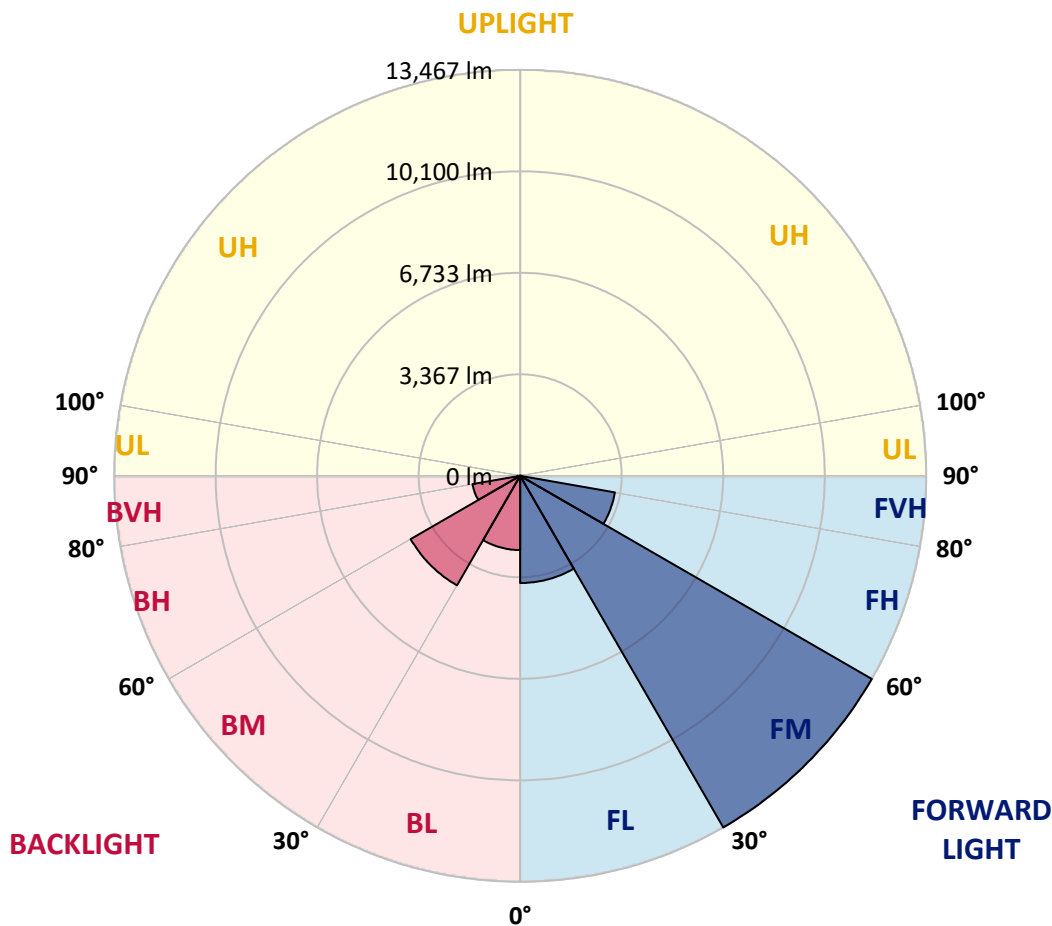
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3556.7	12.4			
FM (30°-60°)	13466.5	47.0			
FH (60°-80°)	3190.3	11.1			G2/5000
FVH (80°-90°)	60.8	0.2			G1/100
BL (0°-30°)	2464.1	8.6	B3/2500		
BM (30°-60°)	4195.4	14.7	B3/5000		
BH (60°-80°)	1604.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	90.5	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°	53°	55°	65°	75°	85°
0°	9471.6	9471.6	9471.6	9471.6	9471.6	9471.6	9471.6	9471.6	9471.6	9471.6	9471.6
2.5°	9354.1	9273.3	9321.0	9302.7	9453.2	9497.3	9475.3	9493.6	9578.1	9537.7	9453.2
5°	8740.8	8854.6	8876.6	8931.7	9019.9	9192.5	9328.4	9365.1	9405.5	9592.8	9574.4
7.5°	8182.5	8259.6	8219.2	8380.8	8571.8	8850.9	9016.2	9045.6	9416.5	9519.3	9596.5
10°	7830.0	7752.8	7936.5	7980.5	8197.2	8516.7	8715.0	8836.2	9174.1	9581.8	9629.5
12.5°	7503.1	7477.4	7587.6	7712.4	7954.8	8285.4	8487.3	8535.1	9056.6	9486.3	9710.3
15°	7260.7	7231.3	7341.5	7433.3	7716.1	8009.9	8267.0	8402.9	8928.1	9431.2	9640.5
17.5°	7069.7	7066.1	7128.5	7293.8	7583.9	7830.0	8245.0	8252.3	8862.0	9515.7	9699.3
20°	7058.7	7055.0	7066.1	7249.7	7514.1	7815.3	8175.2	8241.3	8862.0	9456.9	9703.0
22.5°	7150.5	7091.8	7157.9	7275.4	7466.4	7841.0	8200.9	8347.8	9075.0	9747.0	9868.2
25°	7297.4	7312.1	7348.8	7389.2	7499.4	7899.7	8428.6	8549.8	9324.7	9996.8	10095.9
27.5°	7565.5	7558.2	7572.9	7594.9	7690.4	7954.8	8520.4	8832.6	9846.2	10441.2	10342.0
30°	7958.5	7932.8	7991.5	8068.7	7980.5	8131.1	8825.2	9060.3	10331.0	10889.2	10617.4
32.5°	8314.7	8410.2	8520.4	8553.5	8446.9	8476.3	9229.2	9467.9	10735.0	11440.1	10955.3
35°	8759.1	8836.2	8983.1	9086.0	9067.6	8979.5	9780.1	10095.9	11318.9	11844.1	11311.6
37.5°	9192.5	9284.3	9526.7	9831.5	9662.6	9622.2	10367.7	10628.5	11498.9	12060.8	11572.3
40°	9890.3	9886.6	10305.3	10463.2	10613.8	10544.0	10977.4	11065.5	11594.4	12013.0	11579.7
42.5°	10709.3	10657.8	11083.9	11329.9	11524.6	11531.9	11612.7	11583.3	11638.4	11770.6	11502.5
45°	11487.9	11598.0	12027.7	12468.4	12663.1	12685.1	12148.9	12093.8	11715.6	11700.9	11355.6
47.5°	12439.1	12464.8	12817.3	13397.6	13849.3	13695.1	12843.0	12721.8	12053.4	12167.3	11601.7
50°	12494.1	12685.1	13001.0	13684.1	15072.3	15031.9	13742.8	13515.1	12597.0	12828.3	12288.5
52.5°	11340.9	11296.9	11671.5	12787.9	14980.5	16361.4	15233.9	14690.3	13764.9	13588.6	13401.3
55°	8641.6	8744.4	9075.0	10202.4	13008.3	16379.7	17264.8	16820.4	15013.5	14712.4	14495.7
56°	7580.2	7594.9	7907.1	8935.4	11869.8	15795.8	17650.5	17290.5	15634.2	15175.1	14844.6
57.5°	6283.8	6199.3	6360.9	6922.8	10018.8	14561.8	17228.1	17580.7	16361.4	15674.6	15215.5
60°	4947.0	4928.6	4862.5	4965.3	6331.5	10970.0	14341.5	15134.7	16287.9	15204.5	14572.8
62.5°	4039.8	3948.0	4080.2	4227.1	4399.8	6805.3	10077.6	10544.0	12931.2	12137.9	10948.0
65°	3132.7	3088.6	3253.9	3731.3	3834.2	4322.6	5740.3	6100.2	7635.3	7499.4	6603.3
67.5°	2155.8	2163.2	2306.4	3033.6	3555.1	3511.0	3514.7	3702.0	3984.8	2960.1	2578.2
70°	1366.2	1362.5	1439.7	1953.8	2860.9	2890.3	2743.4	2688.3	2548.8	1542.5	1634.3
72.5°	877.7	852.0	892.4	1079.7	1480.1	1711.4	1762.8	1795.9	1476.4	1212.0	1314.8
75°	495.8	470.1	455.4	503.1	583.9	675.8	741.9	763.9	855.7	918.1	973.2
77.5°	150.6	135.9	165.3	220.4	290.1	389.3	473.8	488.5	576.6	650.0	705.1
80°	66.1	73.5	102.8	146.9	205.7	275.4	334.2	356.2	415.0	470.1	484.8
82.5°	40.4	44.1	69.8	99.2	143.2	194.6	238.7	246.1	304.8	348.9	359.9
85°	14.7	18.4	36.7	58.8	91.8	124.9	124.9	135.9	124.9	124.9	135.9
87.5°	0.0	0.0	3.7	7.3	7.3	11.0	14.7	14.7	18.4	22.0	25.7
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°	9471.6	9471.6	9471.6	9471.6	9471.6	9471.6	9471.6	9471.6	9471.6	9471.6	9471.6
2.5°	9497.3	9478.9	9449.6	9343.1	9332.0	9299.0	9115.4	9086.0	9115.4	9027.2	9034.6
5°	9478.9	9534.0	9313.7	9207.2	9008.9	8865.6	8700.4	8615.9	8465.3	8369.8	8476.3
7.5°	9559.7	9537.7	9262.3	9030.9	8733.4	8369.8	8079.7	7914.4	7650.0	7576.5	7631.6
10°	9530.4	9412.8	9089.7	8784.8	8222.9	7903.4	7433.3	6977.9	6728.2	6599.6	6581.3
12.5°	9490.0	9456.9	8917.0	8391.9	7800.6	7128.5	6467.4	6037.7	5630.1	5453.8	5479.5
15°	9537.7	9258.6	8593.9	7929.1	7143.2	6261.8	5549.3	4994.7	4711.9	4598.1	4598.1
17.5°	9515.7	9163.1	8439.6	7411.3	6416.0	5373.0	4590.7	4256.5	4139.0	4139.0	4172.1
20°	9526.7	9225.5	8127.4	6893.4	5556.6	4524.6	3955.4	3834.2	3885.6	3904.0	3922.3
22.5°	9589.1	9019.9	7822.6	6324.2	4759.7	3870.9	3591.8	3595.5	3687.3	3786.4	3768.1
25°	9666.2	8939.1	7451.7	5758.6	4150.0	3551.4	3463.2	3452.2	3522.0	3573.4	3580.8
27.5°	9600.1	8799.5	7073.4	5053.5	3650.6	3338.4	3320.0	3327.4	3349.4	3452.2	3419.2
30°	9816.8	8839.9	6599.6	4462.2	3375.1	3268.6	3246.6	3235.5	3268.6	3298.0	3272.3
32.5°	10084.9	8696.7	6247.1	3892.9	3239.2	3217.2	3173.1	3158.4	3176.8	3147.4	3162.1
35°	10202.4	8671.0	5788.0	3485.3	3132.7	3114.4	3088.6	3085.0	3088.6	3062.9	3040.9
37.5°	10268.6	8792.2	5262.8	3298.0	3066.6	3085.0	3026.2	3018.9	2952.8	2967.5	2978.5
40°	10382.4	8604.9	4836.8	3118.0	3026.2	2989.5	2938.1	2927.1	2883.0	2857.3	2883.0
42.5°	10217.1	8549.8	4418.1	3040.9	2967.5	2927.1	2890.3	2827.9	2813.2	2791.2	2776.5
45°	10084.9	8233.9	4043.5	2945.4	2897.7	2875.6	2805.9	2739.7	2684.7	2706.7	2673.6
47.5°	10184.1	8123.8	3672.6	2864.6	2802.2	2776.5	2706.7	2655.3	2600.2	2574.5	2567.1
50°	10580.7	8329.4	3360.4	2805.9	2721.4	2706.7	2614.9	2556.1	2504.7	2486.3	2493.7
52.5°	11528.3	8891.3	3147.4	2684.7	2644.3	2578.2	2526.7	2453.3	2420.2	2361.5	2398.2
55°	12729.2	9805.8	3092.3	2570.8	2548.8	2490.0	2420.2	2365.1	2302.7	2255.0	2244.0
56°	13114.8	10242.8	3048.2	2526.7	2490.0	2457.0	2365.1	2332.1	2232.9	2221.9	2214.6
57.5°	13427.0	10628.5	3055.6	2442.3	2405.5	2376.2	2321.1	2240.3	2174.2	2133.8	2152.1
60°	12721.8	9949.0	2916.0	2313.7	2306.4	2251.3	2174.2	2137.4	2056.6	2008.9	1997.9
62.5°	9456.9	6753.9	2365.1	2148.5	2144.8	2086.0	1997.9	1957.5	1942.8	1876.7	1876.7
65°	5446.4	4234.5	2045.6	2012.6	1983.2	1924.4	1836.3	1803.2	1766.5	1744.5	1726.1
67.5°	2324.7	2196.2	1858.3	1854.7	1821.6	1748.2	1660.0	1608.6	1560.8	1516.8	1538.8
70°	1685.7	1711.4	1678.4	1660.0	1619.6	1527.8	1450.7	1388.2	1314.8	1285.4	1307.4
72.5°	1336.8	1391.9	1439.7	1443.3	1395.6	1289.1	1204.6	1120.1	1039.3	998.9	1017.3
75°	1013.6	1050.4	1098.1	1109.1	1039.3	965.9	885.1	797.0	734.5	686.8	694.1
77.5°	730.8	723.5	767.6	760.2	727.2	675.8	602.3	521.5	451.7	407.7	411.3
80°	499.5	510.5	536.2	532.5	492.1	459.1	404.0	337.9	286.5	249.7	242.4
82.5°	348.9	367.3	389.3	370.9	337.9	304.8	264.4	216.7	176.3	146.9	139.6
85°	124.9	143.2	165.3	176.3	187.3	180.0	150.6	121.2	88.1	73.5	69.8
87.5°	25.7	29.4	33.1	33.1	33.1	29.4	25.7	25.7	22.0	11.0	11.0
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)