

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: P532054

Luminaire Tested: **GALN-SA7B-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532054
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-SA7B-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 24694 lumens
Efficiency: N/A
Efficacy: 86.3 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

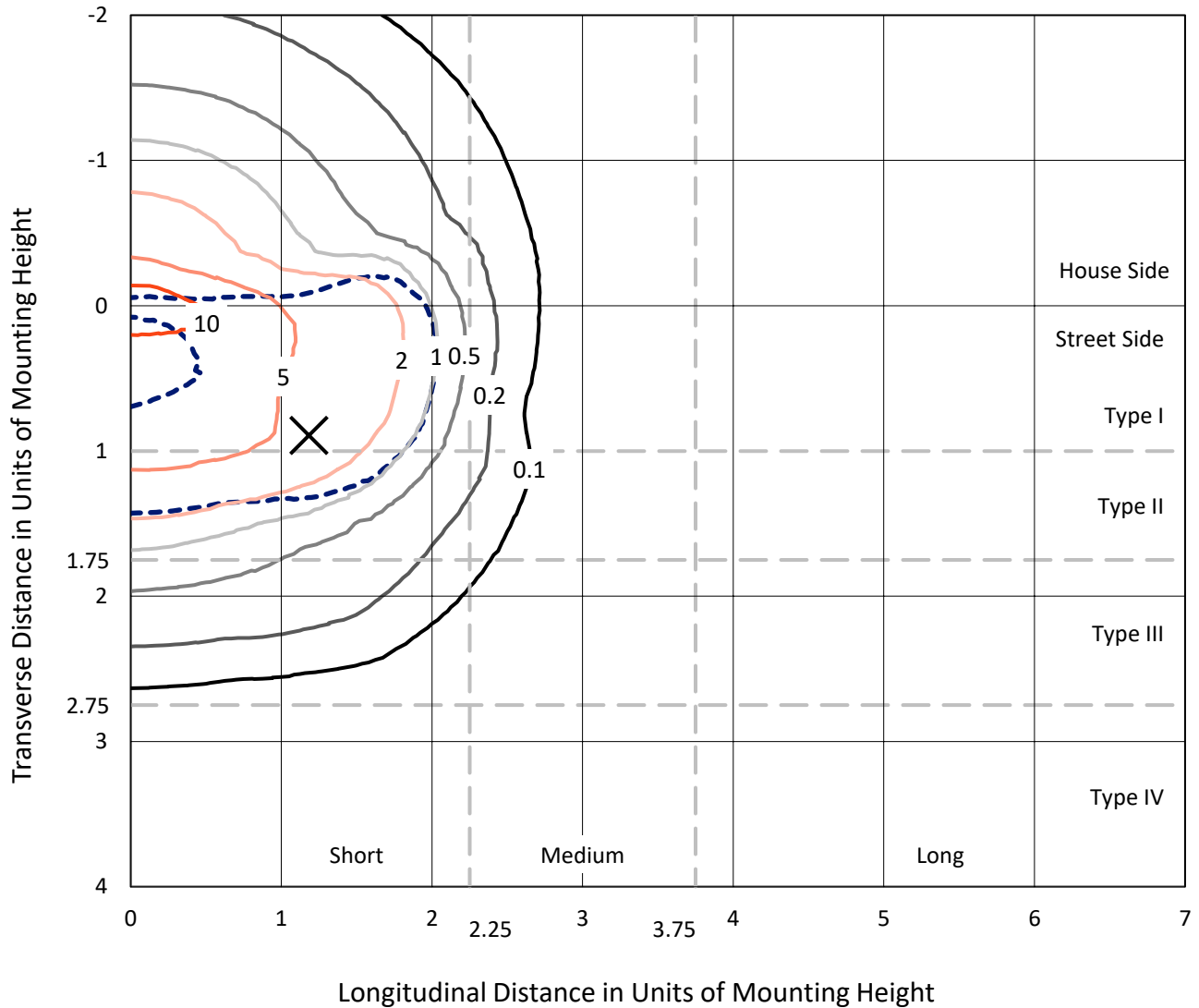
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

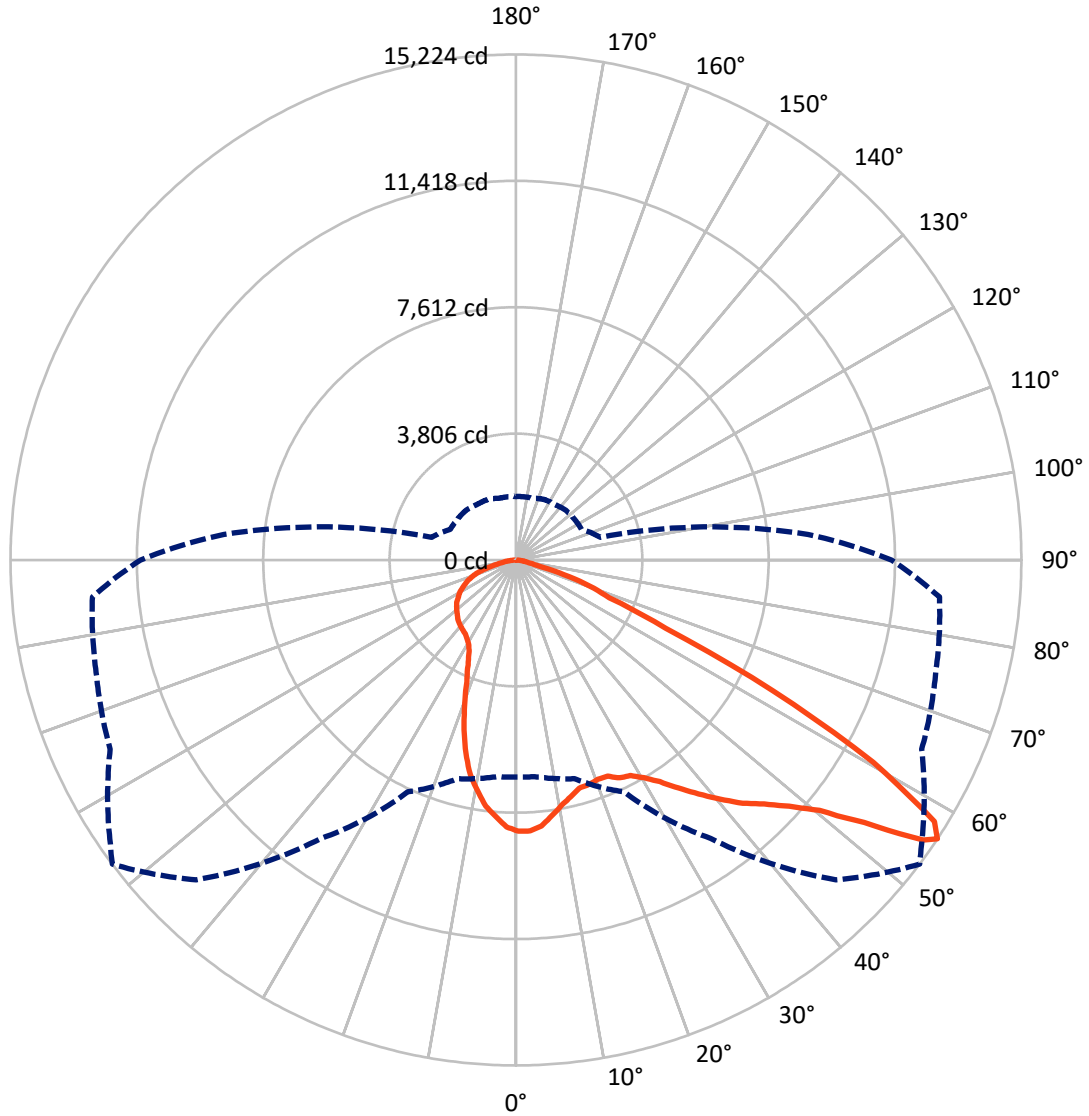
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	7206.2	0.0	7206.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	17487.7	0.0	17487.7
	% Fixture	70.8	0.0	70.8
Total	Lumens	24694.0	0.0	24694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.2	2.9
10°-20°	1806.4	7.3
20°-30°	2663.7	10.8
30°-40°	3805.9	15.4
40°-50°	5238.2	21.2
50°-60°	6190.2	25.1
60°-70°	3299.0	13.4
70°-80°	836.9	3.4
80°-90°	130.5	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°	24694.0	100.0
0°-180°	24694.0	100.0

Coefficient of Utilization



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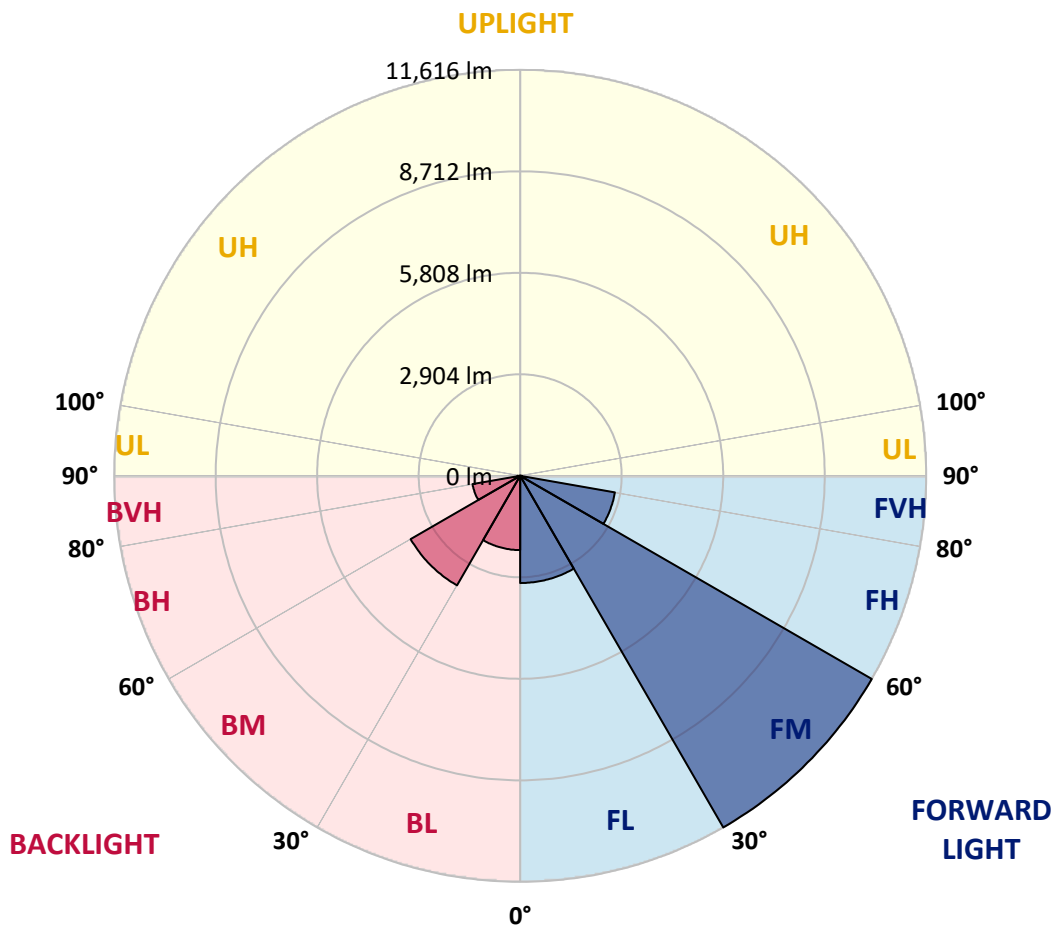
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3067.9	12.4			
FM (30°-60°)	11615.6	47.0			
FH (60°-80°)	2751.8	11.1			G2/5000
FVH (80°-90°)	52.5	0.2			G1/100
BL (0°-30°)	2125.4	8.6	B3/2500		
BM (30°-60°)	3618.7	14.7	B3/5000		
BH (60°-80°)	1384.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	78.0	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°	8169.7	8169.7	8169.7	8169.7	8169.7	8169.7	8169.7	8169.7	8169.7	8169.7	8169.7
2.5°	8068.4	7998.7	8039.9	8024.0	8153.9	8191.9	8172.9	8188.8	8261.6	8226.8	8153.9
5°	7539.4	7637.6	7656.6	7704.1	7780.1	7929.0	8046.2	8077.9	8112.7	8274.3	8258.4
7.5°	7057.9	7124.4	7089.5	7228.9	7393.6	7634.4	7776.9	7802.3	8122.2	8210.9	8277.5
10°	6753.7	6687.2	6845.6	6883.6	7070.5	7346.1	7517.2	7621.7	7913.2	8264.8	8306.0
12.5°	6471.8	6449.6	6544.7	6652.4	6861.4	7146.5	7320.8	7362.0	7811.8	8182.4	8375.7
15°	6262.7	6237.4	6332.4	6411.6	6655.5	6909.0	7130.7	7247.9	7700.9	8134.9	8315.5
17.5°	6098.0	6094.8	6148.7	6291.2	6541.5	6753.7	7111.7	7118.0	7643.9	8207.8	8366.2
20°	6088.5	6085.3	6094.8	6253.2	6481.3	6741.1	7051.5	7108.5	7643.9	8157.1	8369.3
22.5°	6167.7	6117.0	6174.0	6275.4	6440.1	6763.2	7073.7	7200.4	7827.6	8407.3	8511.9
25°	6294.4	6307.1	6338.8	6373.6	6468.6	6813.9	7270.1	7374.6	8043.0	8622.7	8708.3
27.5°	6525.7	6519.3	6532.0	6551.0	6633.4	6861.4	7349.3	7618.6	8492.9	9006.0	8920.5
30°	6864.6	6842.4	6893.1	6959.6	6883.6	7013.5	7612.2	7815.0	8911.0	9392.5	9158.1
32.5°	7171.9	7254.3	7349.3	7377.8	7285.9	7311.3	7960.7	8166.6	9259.5	9867.7	9449.5
35°	7555.2	7621.7	7748.4	7837.1	7821.3	7745.3	8435.8	8708.3	9763.2	10216.1	9756.8
37.5°	7929.0	8008.2	8217.3	8480.2	8334.5	8299.6	8942.7	9167.6	9918.4	10403.0	9981.7
40°	8530.9	8527.7	8888.8	9025.1	9154.9	9094.7	9468.5	9544.6	10000.7	10361.9	9988.1
42.5°	9237.3	9192.9	9560.4	9772.7	9940.5	9946.9	10016.6	9991.2	10038.7	10152.8	9921.5
45°	9908.9	10003.9	10374.5	10754.7	10922.6	10941.6	10479.1	10431.6	10105.3	10092.6	9794.8
47.5°	10729.3	10751.5	11055.6	11556.1	11945.8	11812.7	11077.8	10973.2	10396.7	10494.9	10007.1
50°	10776.8	10941.6	11214.0	11803.2	13000.6	12965.8	11853.9	11657.5	10865.5	11065.1	10599.4
52.5°	9782.2	9744.1	10067.3	11030.3	12921.4	14112.5	13140.0	12671.2	11872.9	11720.8	11559.3
55°	7453.8	7542.5	7827.6	8800.1	11220.3	14128.4	14891.8	14508.5	12950.0	12690.2	12503.3
56°	6538.3	6551.0	6820.3	7707.3	10238.3	13624.7	15224.4	14914.0	13485.3	13089.3	12804.2
57.5°	5420.1	5347.2	5486.6	5971.3	8641.8	12560.3	14860.1	15164.2	14112.5	13520.2	13124.2
60°	4267.0	4251.2	4194.2	4282.9	5461.3	9462.2	12370.2	13054.5	14049.2	13114.7	12569.8
62.5°	3484.6	3405.4	3519.4	3646.1	3795.0	5869.9	8692.4	9094.7	11153.8	10469.6	9443.2
65°	2702.1	2664.1	2806.7	3218.5	3307.2	3728.5	4951.3	5261.7	6585.8	6468.6	5695.7
67.5°	1859.5	1865.8	1989.4	2616.6	3066.4	3028.4	3031.6	3193.1	3437.1	2553.2	2223.8
70°	1178.4	1175.3	1241.8	1685.3	2467.7	2493.1	2366.3	2318.8	2198.5	1330.5	1409.7
72.5°	757.1	734.9	769.8	931.3	1276.6	1476.2	1520.5	1549.1	1273.5	1045.4	1134.1
75°	427.7	405.5	392.8	434.0	503.7	582.9	639.9	658.9	738.1	791.9	839.5
77.5°	129.9	117.2	142.6	190.1	250.3	335.8	408.6	421.3	497.3	560.7	608.2
80°	57.0	63.4	88.7	126.7	177.4	237.6	288.3	307.3	358.0	405.5	418.1
82.5°	34.8	38.0	60.2	85.5	123.5	167.9	205.9	212.2	262.9	300.9	310.4
85°	12.7	15.8	31.7	50.7	79.2	107.7	107.7	117.2	107.7	107.7	117.2
87.5°	0.0	0.0	3.2	6.3	6.3	9.5	12.7	12.7	15.8	19.0	22.2
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°	8169.7	8169.7	8169.7	8169.7	8169.7	8169.7	8169.7	8169.7	8169.7	8169.7	8169.7
2.5°	8191.9	8176.1	8150.7	8058.9	8049.4	8020.9	7862.5	7837.1	7862.5	7786.4	7792.8
5°	8176.1	8223.6	8033.5	7941.7	7770.6	7647.1	7504.5	7431.7	7301.8	7219.4	7311.3
7.5°	8245.8	8226.8	7989.2	7789.6	7533.0	7219.4	6969.2	6826.6	6598.5	6535.2	6582.7
10°	8220.4	8119.1	7840.3	7577.4	7092.7	6817.1	6411.6	6018.8	5803.4	5692.5	5676.7
12.5°	8185.6	8157.1	7691.4	7238.4	6728.4	6148.7	5578.5	5207.9	4856.2	4704.2	4726.4
15°	8226.8	7986.0	7412.6	6839.3	6161.4	5401.1	4786.5	4308.2	4064.3	3966.1	3966.1
17.5°	8207.8	7903.7	7279.6	6392.6	5534.1	4634.5	3959.7	3671.5	3570.1	3570.1	3598.6
20°	8217.3	7957.5	7010.3	5946.0	4792.9	3902.7	3411.7	3307.2	3351.5	3367.4	3383.2
22.5°	8271.1	7780.1	6747.4	5454.9	4105.5	3338.9	3098.1	3101.3	3180.5	3266.0	3250.2
25°	8337.6	7710.4	6427.5	4967.1	3579.6	3063.3	2987.2	2977.7	3037.9	3082.3	3088.6
27.5°	8280.6	7590.0	6101.2	4358.9	3148.8	2879.5	2863.7	2870.0	2889.0	2977.7	2949.2
30°	8467.5	7624.9	5692.5	3848.9	2911.2	2819.3	2800.3	2790.8	2819.3	2844.7	2822.5
32.5°	8698.8	7501.3	5388.4	3357.9	2794.0	2775.0	2737.0	2724.3	2740.1	2714.8	2727.5
35°	8800.1	7479.2	4992.4	3006.2	2702.1	2686.3	2664.1	2660.9	2664.1	2641.9	2622.9
37.5°	8857.2	7583.7	4539.5	2844.7	2645.1	2660.9	2610.3	2603.9	2546.9	2559.6	2569.1
40°	8955.4	7422.1	4172.0	2689.5	2610.3	2578.6	2534.2	2524.7	2486.7	2464.5	2486.7
42.5°	8812.8	7374.6	3810.9	2622.9	2559.6	2524.7	2493.1	2439.2	2426.5	2407.5	2394.9
45°	8698.8	7102.2	3487.7	2540.6	2499.4	2480.4	2420.2	2363.2	2315.7	2334.7	2306.2
47.5°	8784.3	7007.2	3167.8	2470.9	2417.0	2394.9	2334.7	2290.3	2242.8	2220.6	2214.3
50°	9126.4	7184.6	2898.5	2420.2	2347.3	2334.7	2255.5	2204.8	2160.4	2144.6	2150.9
52.5°	9943.7	7669.2	2714.8	2315.7	2280.8	2223.8	2179.4	2116.1	2087.6	2036.9	2068.6
55°	10979.6	8458.0	2667.3	2217.5	2198.5	2147.8	2087.6	2040.1	1986.2	1945.0	1935.5
56°	11312.2	8835.0	2629.3	2179.4	2147.8	2119.3	2040.1	2011.6	1926.0	1916.5	1910.2
57.5°	11581.5	9167.6	2635.6	2106.6	2074.9	2049.6	2002.0	1932.4	1875.3	1840.5	1856.3
60°	10973.2	8581.6	2515.2	1995.7	1989.4	1941.9	1875.3	1843.7	1774.0	1732.8	1723.3
62.5°	8157.1	5825.6	2040.1	1853.2	1850.0	1799.3	1723.3	1688.4	1675.8	1618.7	1618.7
65°	4697.8	3652.5	1764.5	1736.0	1710.6	1659.9	1583.9	1555.4	1523.7	1504.7	1488.9
67.5°	2005.2	1894.3	1602.9	1599.7	1571.2	1507.9	1431.8	1387.5	1346.3	1308.3	1327.3
70°	1454.0	1476.2	1447.7	1431.8	1397.0	1317.8	1251.3	1197.4	1134.1	1108.7	1127.7
72.5°	1153.1	1200.6	1241.8	1244.9	1203.8	1111.9	1039.0	966.2	896.5	861.6	877.5
75°	874.3	906.0	947.2	956.7	896.5	833.1	763.4	687.4	633.6	592.4	598.7
77.5°	630.4	624.1	662.1	655.7	627.2	582.9	519.5	449.8	389.6	351.6	354.8
80°	430.8	440.3	462.5	459.3	424.5	396.0	348.5	291.4	247.1	215.4	209.1
82.5°	300.9	316.8	335.8	319.9	291.4	262.9	228.1	186.9	152.1	126.7	120.4
85°	107.7	123.5	142.6	152.1	161.6	155.2	129.9	104.5	76.0	63.4	60.2
87.5°	22.2	25.3	28.5	28.5	28.5	25.3	22.2	22.2	19.0	9.5	9.5
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)