

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: P532068

Luminaire Tested: **GALN-SA7B-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
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-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25434 lumens
Efficiency: N/A
Efficacy: 88.9 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

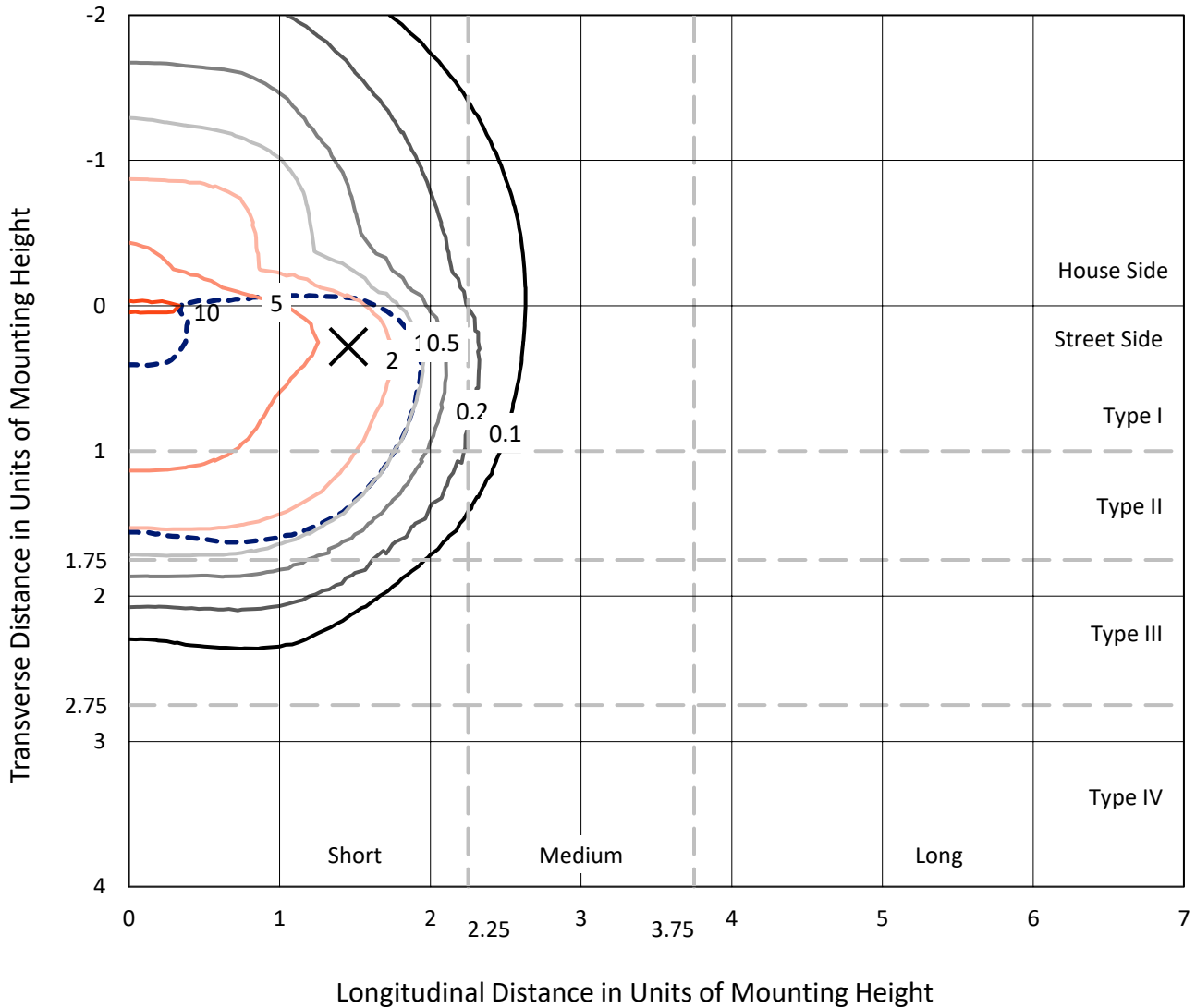
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

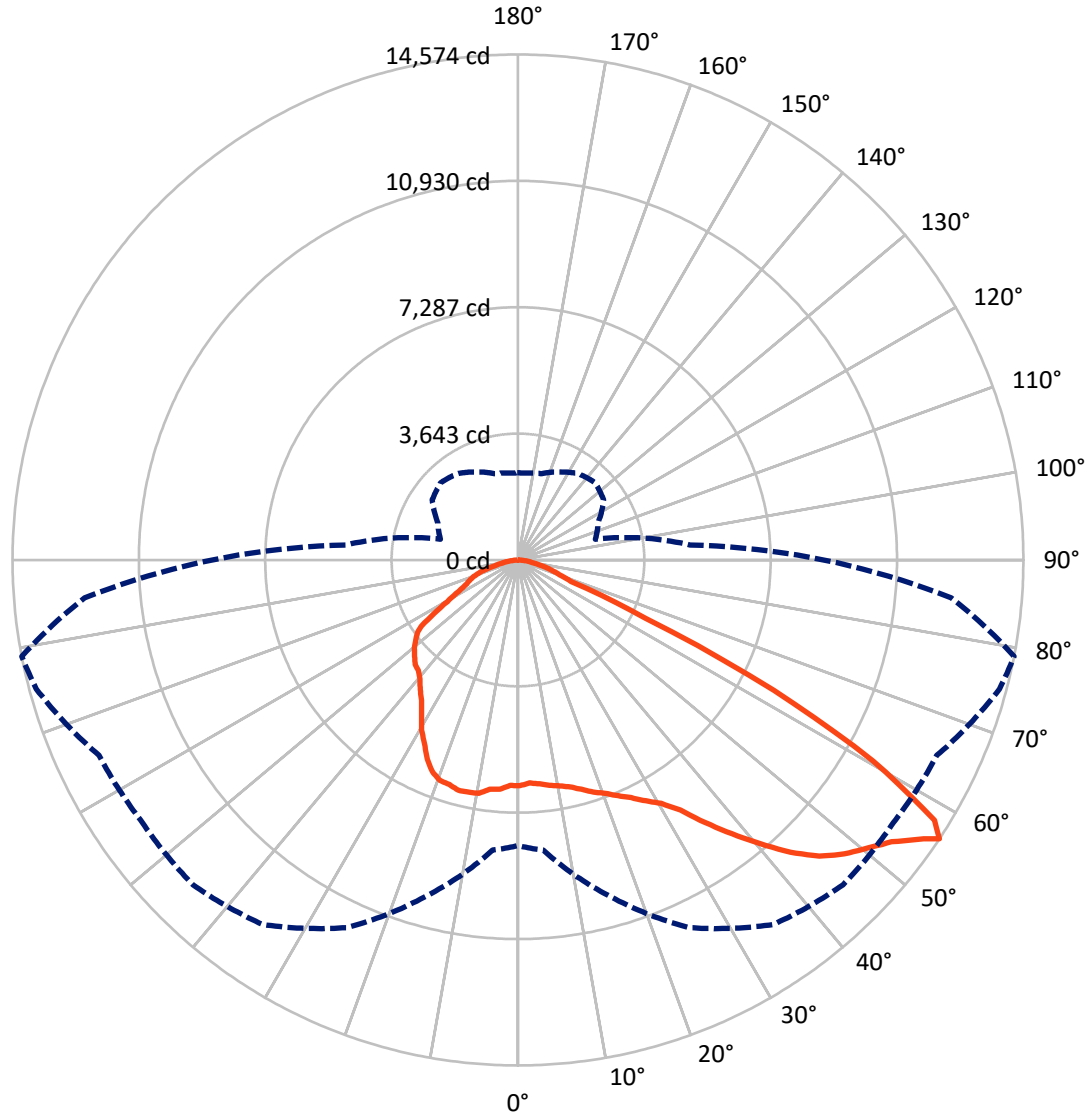
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7511.2	0.0	7511.2
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	17922.8	0.0	17922.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	25434.0	0.0	25434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.7	2.3
10°-20°	1619.2	6.4
20°-30°	2770.2	10.9
30°-40°	4245.6	16.7
40°-50°	5737.9	22.6
50°-60°	6590.2	25.9
60°-70°	3004.0	11.8
70°-80°	740.6	2.9
80°-90°	134.6	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°	25434.0	100.0
0°-180°	25434.0	100.0

Coefficient of Utilization



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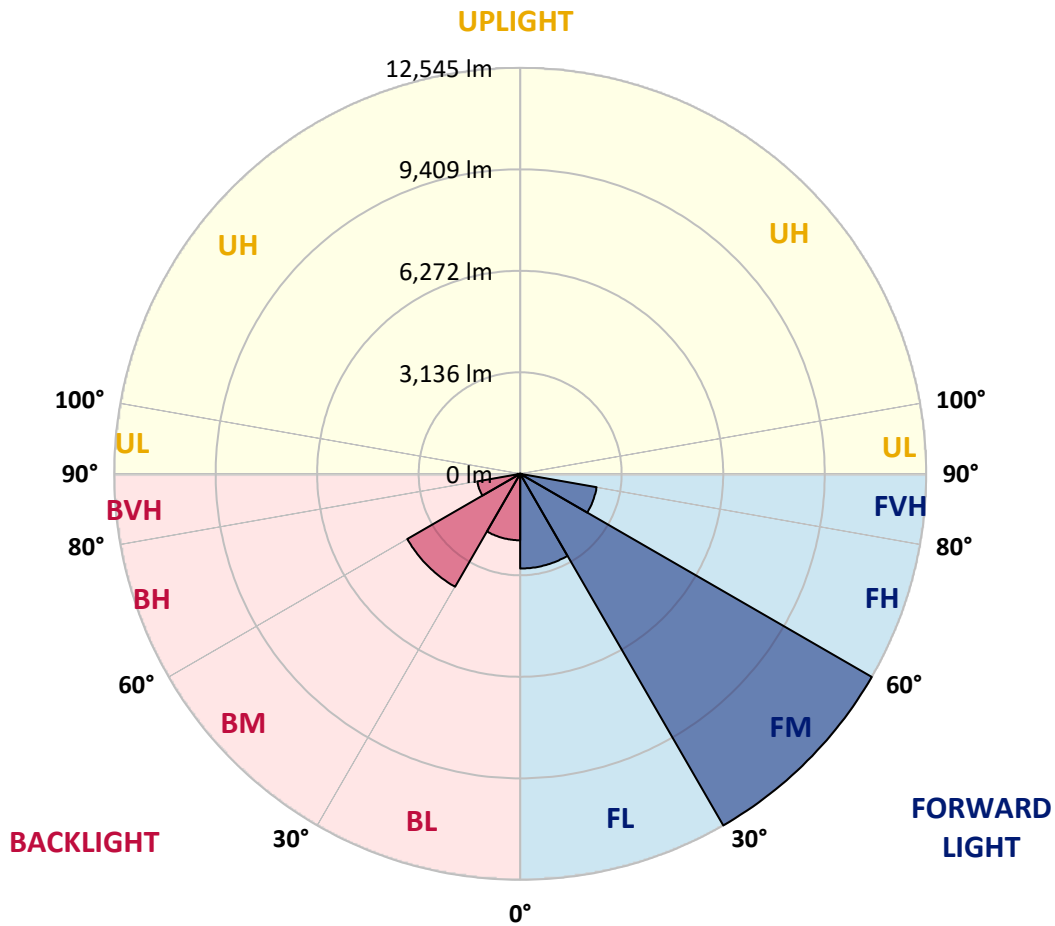
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2926.4	11.5			
FM (30°-60°)	12544.8	49.3			
FH (60°-80°)	2397.8	9.4			G2/5000
FVH (80°-90°)	53.7	0.2			G1/100
BL (0°-30°)	2054.6	8.1	B3/2500		
BM (30°-60°)	4028.9	15.8	B3/5000		
BH (60°-80°)	1346.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	80.9	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°	55°	65°	75°	79°	85°
0°	6507.6	6507.6	6507.6	6507.6	6507.6	6507.6	6507.6	6507.6	6507.6	6507.6	6507.6
2.5°	6190.7	6174.9	6212.9	6241.4	6276.3	6320.6	6342.8	6355.5	6466.4	6437.9	6523.4
5°	6057.7	6016.5	6045.0	6067.2	6127.4	6181.2	6241.4	6336.5	6437.9	6482.2	6586.8
7.5°	5940.4	5918.3	5911.9	5927.8	6010.1	6079.8	6184.4	6323.8	6488.5	6561.4	6621.6
10°	5747.2	5715.5	5763.0	5867.6	5889.7	6035.5	6155.9	6355.5	6498.0	6624.8	6802.2
12.5°	5661.6	5630.0	5639.5	5699.7	5854.9	5994.3	6136.9	6361.8	6662.8	6713.5	6951.1
15°	5797.9	5766.2	5775.7	5759.9	5908.8	5981.6	6206.6	6488.5	6776.9	6862.4	7115.9
17.5°	6108.4	6111.5	6070.3	6035.5	6000.6	6155.9	6311.1	6564.6	6821.2	7036.6	7226.7
20°	6700.8	6596.3	6513.9	6317.5	6263.6	6330.1	6526.6	6770.5	7001.8	7179.2	7394.7
22.5°	7157.0	7166.5	7049.3	6726.2	6608.9	6637.5	6805.4	7005.0	7258.4	7385.2	7632.3
25°	7819.2	7752.7	7625.9	7369.3	7106.3	7128.5	7252.1	7432.7	7502.4	7591.1	7860.4
27.5°	8424.3	8443.3	8193.1	7952.3	7625.9	7562.6	7784.4	7816.0	7698.8	7866.7	7958.6
30°	9039.0	9023.1	8858.4	8576.4	8256.4	8269.1	8367.3	8212.1	8050.5	8142.4	8205.7
32.5°	9675.8	9495.2	9488.9	9235.4	8991.4	8874.2	8753.8	8829.9	8579.6	8598.6	8538.4
35°	10185.9	10211.2	10065.5	9884.9	9764.5	9558.6	9229.1	9365.3	9317.8	9295.6	9035.8
37.5°	10556.6	10458.3	10531.2	10471.0	10357.0	10100.3	9758.2	9888.1	9910.2	10018.0	9717.0
40°	10860.7	10819.5	11012.8	11044.5	10965.3	10410.8	9796.2	10182.7	10515.4	10749.8	10391.8
42.5°	11006.4	11095.2	11297.9	11541.9	11364.5	10772.0	9992.6	10407.6	11149.0	11519.7	11031.8
45°	11202.9	11088.8	11389.8	11836.5	11839.7	11076.1	10182.7	10711.8	11643.3	12181.9	11469.0
47.5°	11003.3	11060.3	11370.8	11937.9	12083.6	11396.1	10696.0	11142.7	12188.2	12666.6	11874.5
50°	10556.6	10670.6	11237.7	11827.0	12267.4	11735.1	11285.3	11608.4	12691.9	13056.3	11941.1
52.5°	10090.8	10154.2	11041.3	11912.6	12349.8	12172.4	12074.1	12251.6	13306.6	13496.7	12023.4
55°	8823.5	9124.5	10391.8	11874.5	12752.1	12961.2	12885.2	13145.0	14003.6	14193.7	12473.3
56°	8237.4	8395.8	10002.1	11697.1	12831.3	13249.6	13211.5	13328.8	14374.3	14573.9	12543.0
57.5°	7153.9	7166.5	8528.9	10911.4	12533.5	13335.1	13297.1	13389.0	14301.4	14165.2	11931.6
60°	4476.7	4673.1	5804.2	8392.7	10657.9	12372.0	12587.4	11849.2	12058.3	11770.0	9282.9
62.5°	2319.1	2290.6	3041.5	4907.6	7074.7	8858.4	9058.0	9023.1	8700.0	8278.6	6064.0
65°	1156.4	1162.7	1590.5	2430.0	3624.5	4638.3	5195.9	5256.1	4397.5	4045.8	2876.8
67.5°	839.6	871.3	1143.7	1485.9	1707.7	1910.4	2341.3	2297.0	1739.4	1653.8	1533.4
70°	652.7	681.2	928.3	1134.2	1029.7	1029.7	1121.6	1159.6	1238.8	1273.6	1314.8
72.5°	475.2	497.4	709.7	782.6	674.8	725.5	839.6	928.3	1010.7	1023.3	1070.9
75°	326.3	345.3	465.7	430.9	405.5	500.6	614.6	697.0	757.2	788.9	817.4
77.5°	212.3	218.6	266.1	224.9	259.8	323.2	399.2	468.9	529.1	554.4	560.8
80°	95.0	104.6	114.1	142.6	180.6	231.3	285.1	342.2	380.2	389.7	408.7
82.5°	53.9	53.9	69.7	101.4	133.1	167.9	205.9	247.1	291.5	301.0	297.8
85°	28.5	28.5	41.2	60.2	82.4	98.2	95.0	98.2	104.6	120.4	117.2
87.5°	9.5	9.5	12.7	12.7	15.8	19.0	15.8	22.2	28.5	28.5	28.5
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°	6507.6	6507.6	6507.6	6507.6	6507.6	6507.6	6507.6	6507.6	6507.6	6507.6	6507.6
2.5°	6498.0	6526.6	6488.5	6570.9	6570.9	6555.1	6475.9	6501.2	6520.2	6520.2	6536.1
5°	6621.6	6612.1	6637.5	6539.2	6479.0	6456.9	6327.0	6263.6	6209.7	6206.6	6159.0
7.5°	6691.3	6666.0	6656.5	6583.6	6317.5	6155.9	5877.1	5715.5	5680.6	5557.1	5604.6
10°	6802.2	6849.7	6802.2	6406.2	6035.5	5664.8	5392.3	5142.0	5043.8	4964.6	4917.1
12.5°	7030.3	7008.1	6732.5	6197.1	5677.5	5237.1	4831.6	4568.6	4470.4	4400.7	4394.3
15°	7223.6	7112.7	6691.3	5867.6	5119.9	4651.0	4318.3	4131.4	4087.0	4093.4	4121.9
17.5°	7290.1	7214.1	6475.9	5525.4	4704.8	4153.6	3998.3	3969.8	4011.0	4058.5	4071.2
20°	7394.7	7274.3	6387.2	5059.7	4191.6	3843.1	3833.6	3934.9	4011.0	4080.7	4090.2
22.5°	7613.3	7309.1	6098.9	4619.3	3839.9	3751.2	3843.1	3928.6	4045.8	4102.9	4052.2
25°	7676.6	7233.1	5693.3	4090.2	3618.1	3694.2	3792.4	3909.6	3992.0	4023.7	4045.8
27.5°	7730.5	7115.9	5145.2	3738.5	3548.4	3691.0	3792.4	3890.6	3934.9	3963.5	3988.8
30°	7882.6	7081.0	4670.0	3504.1	3504.1	3627.6	3757.5	3782.9	3843.1	3877.9	3922.3
32.5°	7958.6	6840.2	4182.1	3355.2	3459.7	3659.3	3668.8	3716.3	3719.5	3748.0	3700.5
35°	8158.2	6669.1	3729.0	3247.4	3478.7	3627.6	3675.2	3646.6	3491.4	3415.4	3431.2
37.5°	8303.9	6583.6	3402.7	3234.8	3481.9	3662.5	3687.8	3472.4	3310.8	3184.1	3215.8
40°	8696.8	6371.3	3155.6	3212.6	3510.4	3700.5	3630.8	3396.3	3104.9	2975.0	2952.8
42.5°	8997.8	6219.2	3000.3	3187.2	3532.6	3754.4	3602.3	3244.3	2946.5	2826.1	2857.7
45°	9346.3	6184.4	2917.9	3193.6	3570.6	3782.9	3567.4	3127.0	2810.2	2762.7	2753.2
47.5°	9469.9	5934.1	2829.2	3139.7	3561.1	3773.4	3450.2	3038.3	2759.5	2765.9	2791.2
50°	9263.9	5677.5	2762.7	3028.8	3497.7	3687.8	3266.4	2921.1	2731.0	2810.2	2854.6
52.5°	9001.0	5414.5	2626.5	2879.9	3367.8	3554.8	3180.9	2914.8	2702.5	2677.2	2686.7
55°	9080.2	5199.1	2436.4	2677.2	3158.7	3307.6	3085.9	2854.6	2632.8	2537.8	2569.4
56°	8823.5	4977.3	2312.8	2550.4	3016.2	3149.2	3038.3	2800.7	2575.8	2512.4	2512.4
57.5°	8098.0	4232.8	2151.2	2347.7	2715.2	2873.6	2946.5	2769.0	2512.4	2401.5	2404.7
60°	5972.1	3009.8	1929.5	2068.9	2249.4	2376.2	2715.2	2680.3	2354.0	2278.0	2249.4
62.5°	3681.5	2198.8	1771.0	1824.9	1916.8	2021.3	2369.8	2426.9	2186.1	2103.7	2084.7
65°	2062.5	1682.3	1650.7	1672.8	1717.2	1771.0	1967.5	2094.2	1929.5	1802.7	1796.4
67.5°	1508.1	1504.9	1530.3	1549.3	1568.3	1568.3	1615.8	1666.5	1644.3	1542.9	1533.4
70°	1340.2	1349.7	1368.7	1371.8	1378.2	1356.0	1318.0	1302.1	1327.5	1264.1	1251.5
72.5°	1105.7	1137.4	1159.6	1162.7	1127.9	1099.4	1048.7	994.8	975.8	963.1	960.0
75°	849.1	871.3	880.8	877.6	864.9	823.7	763.5	709.7	674.8	636.8	655.8
77.5°	573.5	605.1	621.0	621.0	602.0	538.6	510.1	468.9	434.0	392.9	399.2
80°	402.4	424.5	449.9	446.7	415.0	383.4	342.2	304.2	275.6	244.0	240.8
82.5°	301.0	313.7	326.3	320.0	297.8	266.1	237.6	202.8	171.1	148.9	148.9
85°	107.7	117.2	142.6	148.9	161.6	161.6	136.2	114.1	91.9	76.0	76.0
87.5°	31.7	31.7	34.9	34.9	31.7	34.9	28.5	31.7	34.9	22.2	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

(END OF REPORT)