

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: P531354

Luminaire Tested: **GALN-SA6C-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25927 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

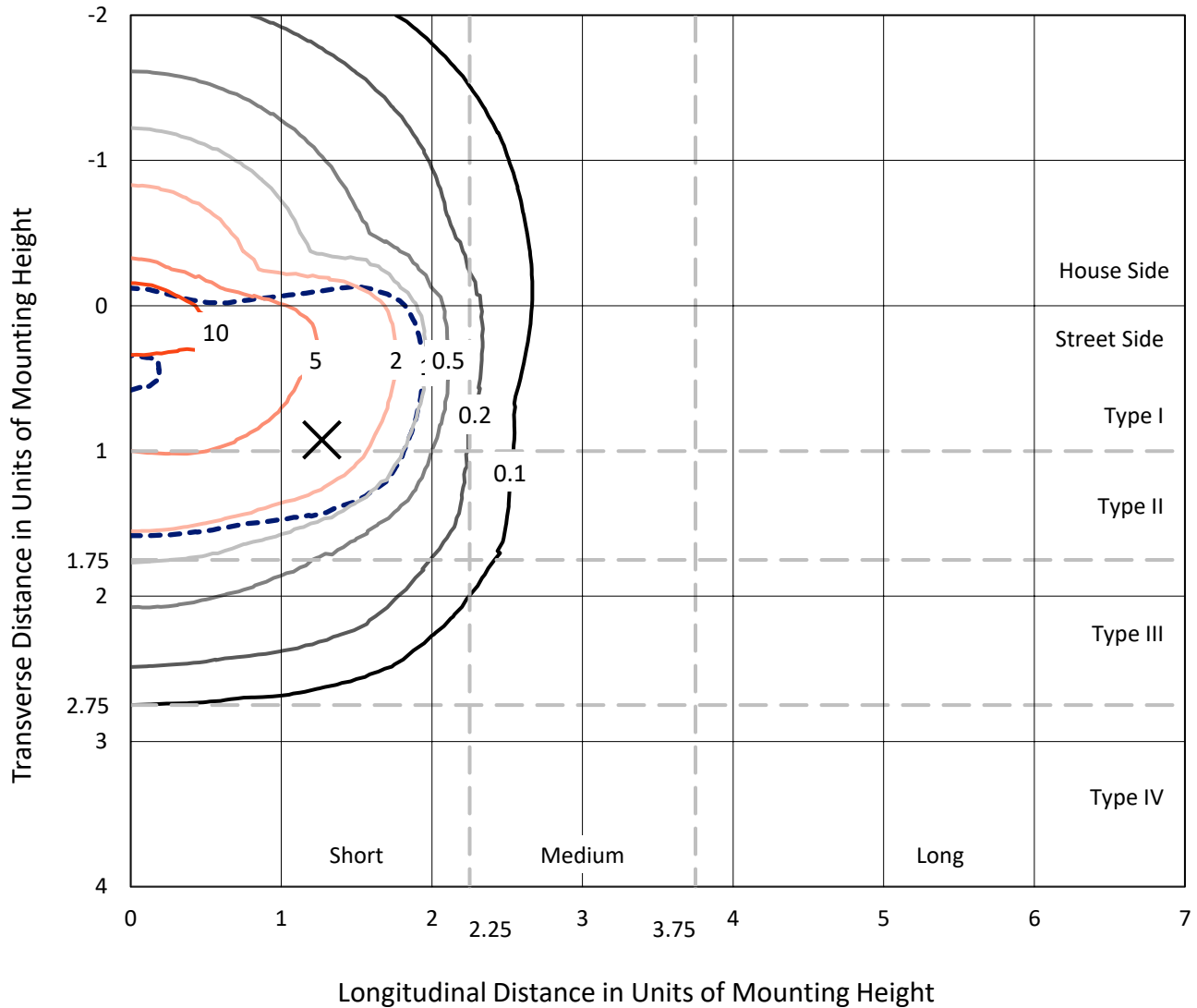
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

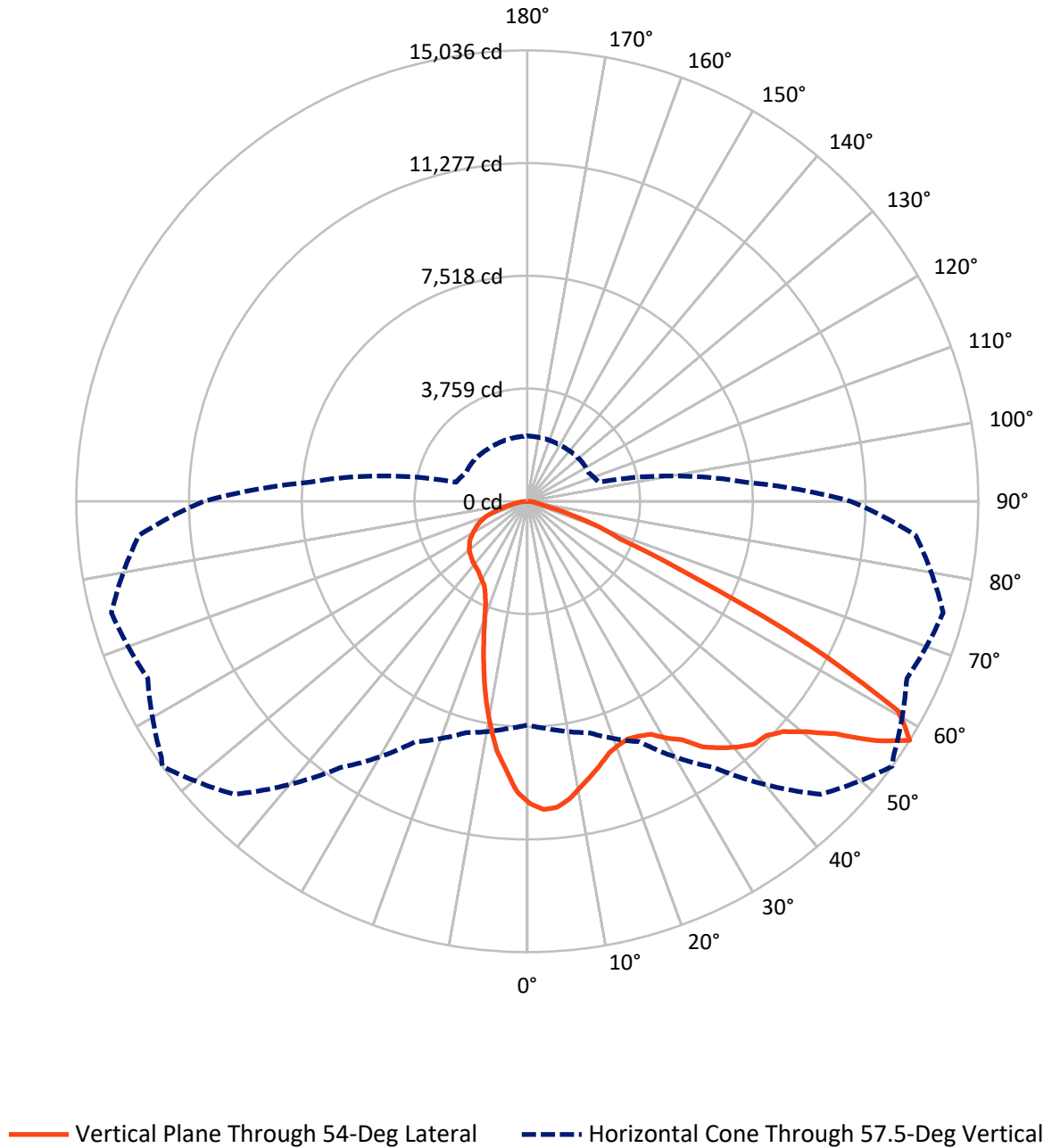
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA6C-827-U-SL3-GRSWH

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7172.8	0.0	7172.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	18754.2	0.0	18754.2
	% Fixture	72.3	0.0	72.3
Total	Lumens	25927.0	0.0	25927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	869.1	3.4
10°-20°	2012.3	7.8
20°-30°	2827.2	10.9
30°-40°	3952.5	15.2
40°-50°	5351.0	20.6
50°-60°	6517.7	25.1
60°-70°	3394.7	13.1
70°-80°	869.8	3.4
80°-90°	132.7	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°	25927.0	100.0
0°-180°	25927.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531354

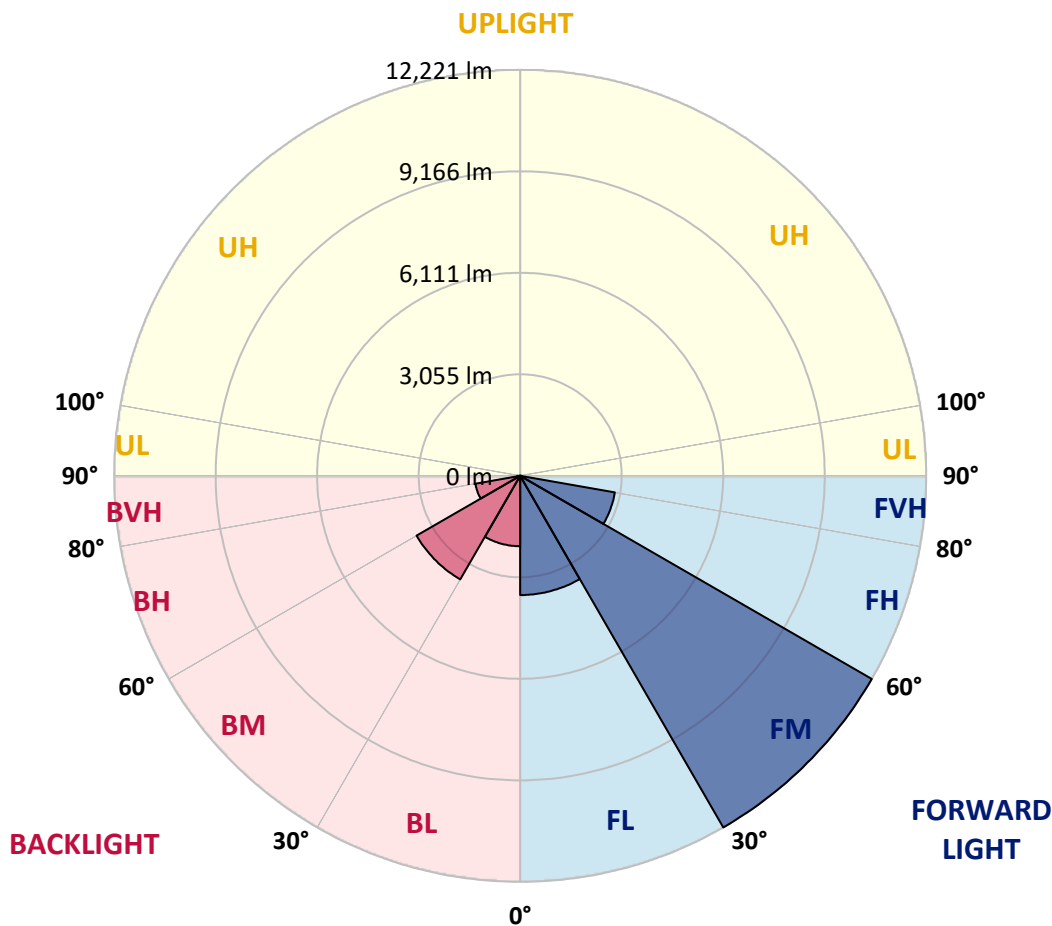
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3588.7	13.8			
FM (30°-60°)	12221.2	47.1			
FH (60°-80°)	2894.2	11.2			G2/5000
FVH (80°-90°)	50.1	0.2			G1/100
BL (0°-30°)	2119.9	8.2	B3/2500		
BM (30°-60°)	3600.0	13.9	B3/5000		
BH (60°-80°)	1370.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	82.5	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





REPORT NUMBER: P531354

CATALOG NUMBER: GALN-SA6C-827-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10077.5	10077.5	10077.5	10077.5	10077.5	10077.5	10077.5	10077.5	10077.5	10077.5	10077.5
2.5°	10364.1	10324.1	10330.8	10384.1	10317.5	10290.8	10290.8	10160.8	10170.8	10080.9	10057.5
5°	10124.2	10030.9	10094.2	10174.2	10187.5	10214.2	10257.5	10224.2	10130.8	10034.2	9877.6
7.5°	9497.7	9581.0	9604.3	9661.0	9780.9	9890.9	10027.5	9934.2	9930.9	9834.3	9740.9
10°	8947.8	8897.8	9024.5	9107.8	9307.7	9491.0	9701.0	9691.0	9740.9	9631.0	9471.0
12.5°	8401.3	8361.3	8421.3	8611.2	8891.2	9157.8	9407.7	9314.4	9581.0	9561.0	9217.7
15°	7821.4	7851.4	7938.1	8114.7	8481.3	8801.2	9117.8	9121.1	9357.7	9437.7	8977.8
17.5°	7414.8	7381.5	7491.5	7754.8	8081.4	8464.6	8824.5	8897.8	9261.1	9307.7	8904.5
20°	7111.6	7158.2	7301.5	7434.8	7811.4	8274.6	8681.2	8707.9	9241.1	9367.7	8787.8
22.5°	7038.3	7011.6	7058.3	7274.9	7584.8	8088.0	8604.6	8704.5	9237.7	9347.7	8567.9
25°	6961.6	7048.3	7044.9	7261.6	7488.2	7938.1	8667.9	8777.8	9414.4	9451.0	8597.9
27.5°	7134.9	7124.9	7218.2	7234.9	7514.8	7978.0	8801.2	8884.5	9707.6	9677.6	8621.2
30°	7308.2	7258.2	7314.9	7511.5	7641.5	8208.0	9167.8	9161.1	10087.5	10067.5	8694.5
32.5°	7521.5	7498.2	7534.8	7708.1	7928.1	8514.6	9477.7	9674.3	10474.1	10600.7	8947.8
35°	7561.5	7658.1	7744.8	7978.0	8291.3	9011.1	10060.9	10224.2	10920.7	11317.2	9431.0
37.5°	7814.7	7851.4	8054.7	8467.9	8754.5	9674.3	10430.8	10534.1	11327.2	11777.1	9940.9
40°	8084.7	8128.0	8434.6	8867.8	9261.1	10107.5	10777.4	10810.7	11457.2	12130.4	10274.1
42.5°	8451.3	8491.3	8794.5	9337.7	9864.2	10477.4	11083.9	11120.6	11447.2	12536.9	10804.0
45°	8831.2	8927.8	9284.4	9900.9	10374.1	10910.7	11153.9	11303.9	11540.5	12900.2	11233.9
47.5°	9364.4	9454.3	9747.6	10350.8	10904.0	11290.6	11477.2	11623.8	11763.8	13216.8	11510.5
50°	9930.9	9947.6	10304.1	10850.7	11257.2	11720.5	12080.4	12130.4	12057.0	13583.3	11980.4
52.5°	10347.5	10400.8	10677.4	11210.6	11817.1	12387.0	12880.2	12933.5	12790.2	13720.0	12140.4
55°	9657.6	9627.6	10077.5	10787.4	12193.7	13380.1	14096.5	14136.5	13323.4	14143.2	12663.6
57.5°	7464.8	7608.1	7991.4	8847.8	10834.0	13819.9	15036.3	14893.0	13963.2	14356.5	12996.8
60°	5425.3	5392.0	5648.6	6221.8	8164.7	11910.4	14216.5	14363.1	13440.0	12940.2	10717.4
62.5°	4418.9	4372.3	4392.3	4412.3	5268.7	7904.7	10524.1	10520.8	10350.8	9301.1	7228.2
65°	3532.5	3642.4	3652.4	3802.4	3912.4	4722.2	6098.5	6425.1	5595.3	4588.9	3329.2
67.5°	2662.7	2622.7	2756.0	3289.2	3495.8	3409.2	3329.2	3365.8	2392.7	1726.2	1626.3
70°	1569.6	1553.0	1712.9	2292.8	2879.3	2709.3	2509.4	2512.7	1642.9	1206.4	1343.0
72.5°	859.8	856.5	889.8	1163.0	1636.3	1699.6	1506.3	1553.0	979.8	976.4	1049.7
75°	479.9	469.9	459.9	513.2	589.9	623.2	636.5	643.2	673.2	753.1	783.1
77.5°	176.6	170.0	170.0	196.6	249.9	313.3	396.6	403.2	476.5	546.5	576.5
80°	60.0	66.7	90.0	123.3	166.6	223.3	269.9	276.6	336.6	383.2	393.2
82.5°	36.7	40.0	60.0	86.6	120.0	156.6	200.0	203.3	249.9	279.9	293.3
85°	16.7	20.0	33.3	53.3	76.6	103.3	106.6	106.6	103.3	106.6	100.0
87.5°	0.0	0.0	6.7	6.7	6.7	10.0	13.3	10.0	16.7	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P531354

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10077.5	10077.5	10077.5	10077.5	10077.5	10077.5	10077.5	10077.5	10077.5	10077.5	10077.5
2.5°	9987.6	9950.9	9837.6	9737.6	9707.6	9574.3	9377.7	9401.0	9257.7	9324.4	9254.4
5°	9850.9	9727.6	9437.7	9314.4	8991.1	8844.5	8744.5	8494.6	8377.9	8354.6	8254.6
7.5°	9501.0	9424.4	9061.1	8727.9	8384.6	8091.3	7714.8	7458.2	7274.9	7224.9	7078.3
10°	9224.4	9054.4	8551.2	8044.7	7554.8	7044.9	6555.1	6171.8	5985.2	5768.6	5695.3
12.5°	8951.1	8694.5	8014.7	7364.9	6731.7	6088.5	5495.3	5028.8	4622.2	4525.6	4492.2
15°	8781.2	8334.6	7534.8	6751.7	5851.9	5012.1	4418.9	4112.3	3862.4	3759.1	3832.4
17.5°	8557.9	8038.0	7074.9	6031.9	5042.1	4269.0	3772.4	3582.5	3492.5	3502.5	3472.5
20°	8278.0	7758.1	6471.7	5378.7	4318.9	3702.4	3419.2	3349.2	3362.5	3385.8	3375.8
22.5°	8078.0	7418.2	6035.2	4712.2	3732.4	3389.2	3272.5	3222.5	3265.9	3285.9	3269.2
25°	7924.7	7128.3	5505.3	4122.3	3392.5	3212.5	3159.2	3155.9	3222.5	3249.2	3232.5
27.5°	7784.8	6858.3	4978.8	3672.4	3165.9	3075.9	3059.2	3099.2	3142.6	3169.2	3192.6
30°	7701.4	6651.7	4485.6	3295.9	3052.6	3009.3	2979.3	3015.9	3039.3	3065.9	3052.6
32.5°	7781.4	6505.1	4009.0	3082.6	2959.3	2916.0	2955.9	2932.6	2972.6	2995.9	2959.3
35°	8031.4	6375.1	3669.1	2969.3	2852.6	2869.3	2876.0	2866.0	2882.6	2862.6	2906.0
37.5°	8278.0	6328.4	3355.8	2872.6	2802.6	2802.6	2796.0	2776.0	2809.3	2802.6	2822.6
40°	8591.2	6358.4	3089.2	2769.3	2756.0	2749.3	2722.7	2719.3	2706.0	2709.3	2716.0
42.5°	8864.5	6425.1	2935.9	2702.7	2712.7	2726.0	2676.0	2636.0	2652.7	2619.4	2619.4
45°	9154.4	6485.1	2799.3	2656.0	2646.0	2642.7	2602.7	2579.4	2566.0	2569.4	2599.4
47.5°	9611.0	6571.7	2696.0	2592.7	2599.4	2549.4	2539.4	2509.4	2522.7	2542.7	2546.0
50°	9934.2	6755.0	2616.0	2519.4	2542.7	2509.4	2449.4	2436.1	2436.1	2469.4	2462.7
52.5°	10160.8	7011.6	2539.4	2439.4	2449.4	2422.7	2402.7	2372.8	2352.8	2399.4	2422.7
55°	10854.0	7438.2	2519.4	2372.8	2369.4	2342.8	2306.1	2276.1	2266.1	2272.8	2319.4
57.5°	10787.4	7304.9	2456.1	2256.1	2249.4	2212.8	2176.1	2166.1	2162.8	2169.5	2182.8
60°	8757.9	5395.3	2192.8	2122.8	2112.8	2106.2	2069.5	2029.5	2009.5	2029.5	2012.8
62.5°	5795.2	3612.4	1932.9	1962.9	1969.5	1952.9	1892.9	1852.9	1859.5	1882.9	1846.2
65°	2846.0	2122.8	1752.9	1832.9	1839.5	1792.9	1736.2	1689.6	1666.3	1686.3	1669.6
67.5°	1626.3	1622.9	1606.3	1689.6	1686.3	1639.6	1549.6	1509.6	1469.6	1476.3	1466.3
70°	1379.7	1406.3	1439.6	1489.6	1486.3	1433.0	1326.3	1296.3	1239.7	1233.0	1216.4
72.5°	1086.4	1133.1	1206.4	1243.0	1213.0	1146.4	1076.4	1026.4	976.4	946.4	956.4
75°	806.5	873.1	913.1	936.4	889.8	853.1	796.5	736.5	676.5	649.8	639.8
77.5°	586.5	606.5	643.2	659.8	629.8	593.2	559.9	499.9	443.2	406.6	396.6
80°	409.9	423.2	449.9	449.9	449.9	433.2	389.9	329.9	293.3	259.9	253.3
82.5°	286.6	299.9	326.6	313.3	309.9	289.9	263.3	216.6	176.6	153.3	146.6
85°	100.0	110.0	133.3	160.0	170.0	166.6	150.0	120.0	93.3	76.6	70.0
87.5°	23.3	23.3	26.7	23.3	23.3	26.7	23.3	23.3	23.3	16.7	13.3
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)