

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: P532764

Luminaire Tested: **GALN-SA8A-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22770 lumens
Efficiency: N/A
Efficacy: 93.3 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

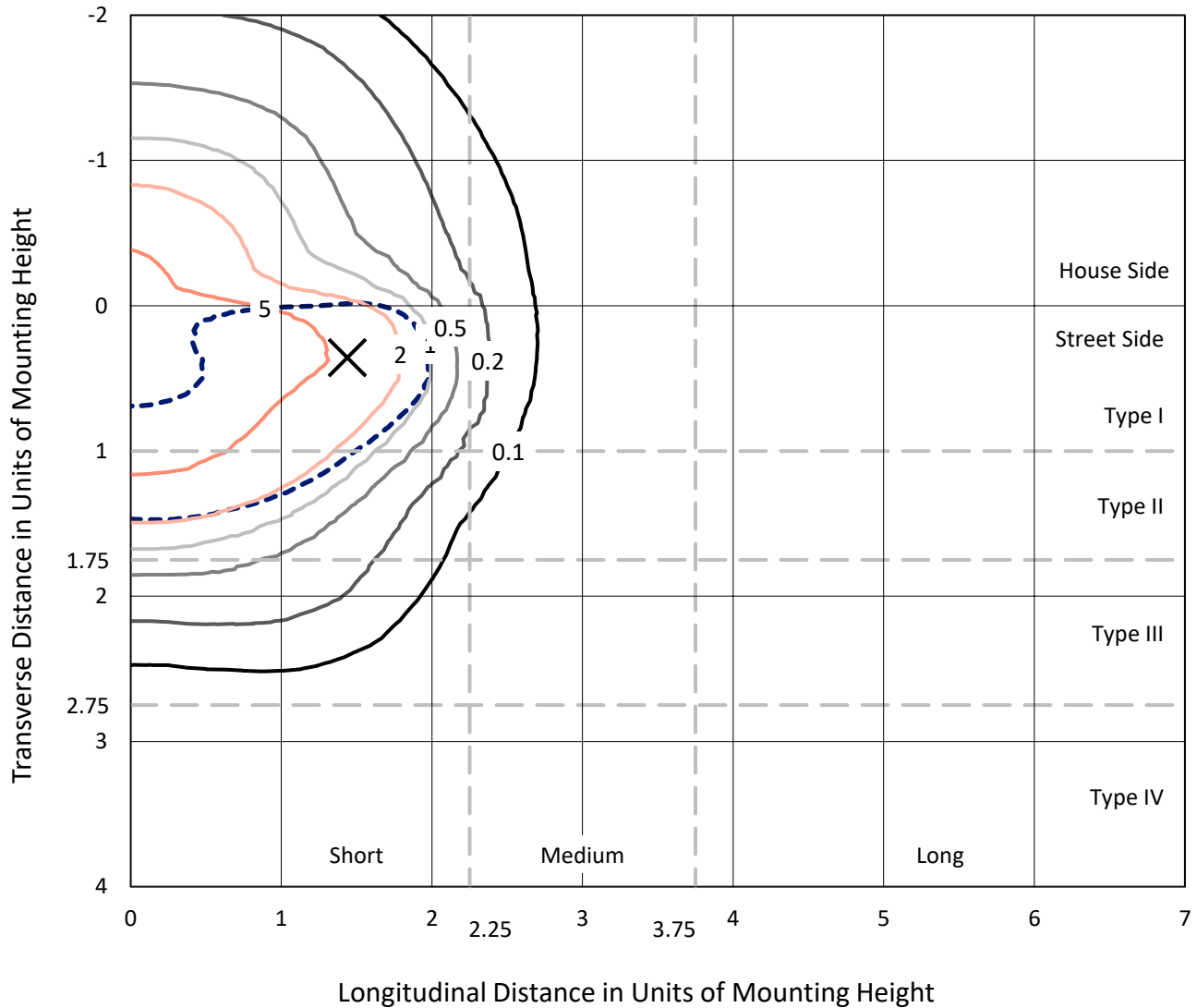
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532764
 CATALOG NUMBER: GALN-SA8A-827-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

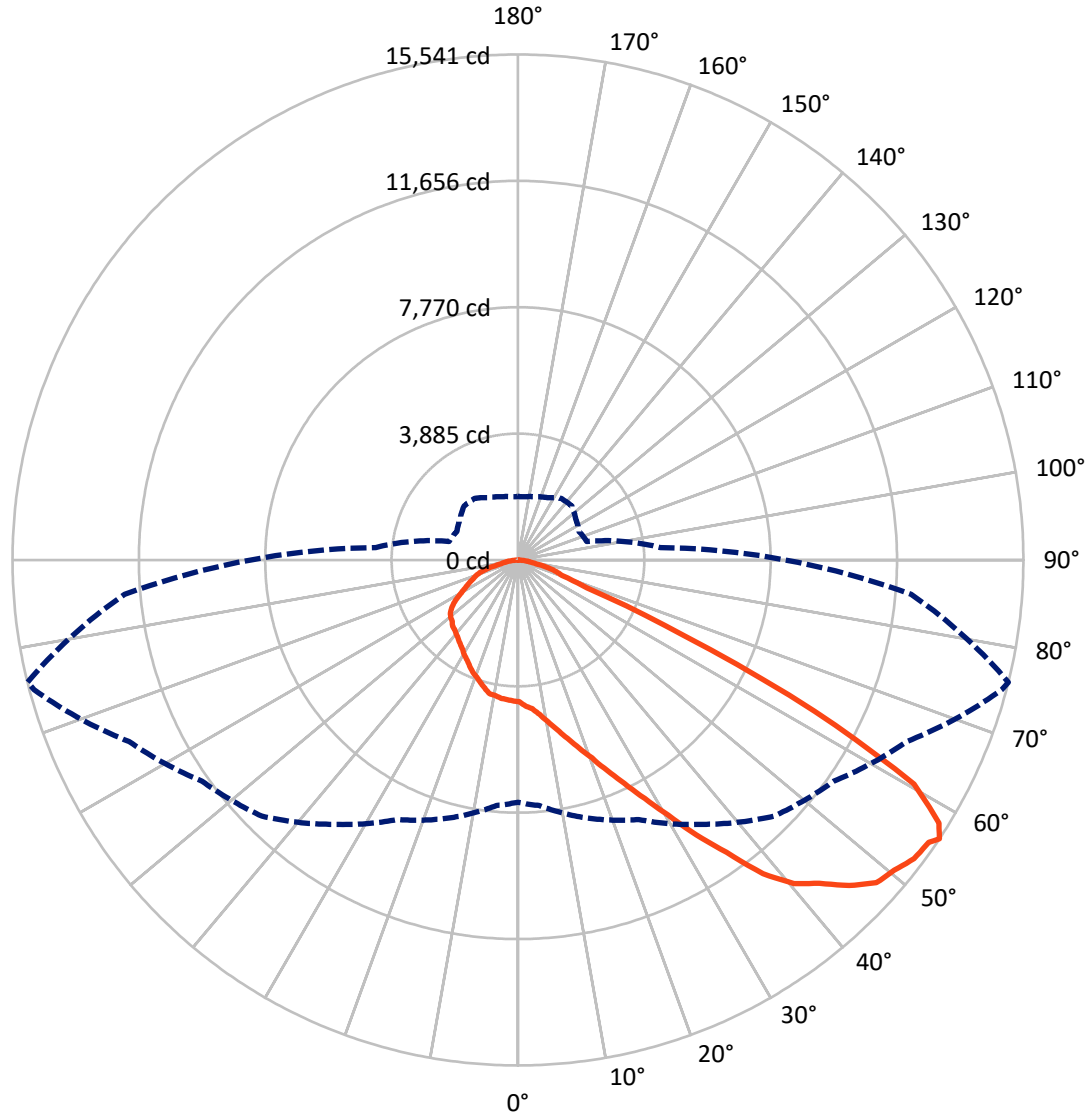
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

REPORT NUMBER: P532764
CATALOG NUMBER: GALN-SA8A-827-U-T2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6122.2	0.0	6122.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	16647.8	0.0	16647.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	22770.0	0.0	22770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.1	1.9
10°-20°	1357.2	6.0
20°-30°	2373.6	10.4
30°-40°	3716.4	16.3
40°-50°	5406.3	23.7
50°-60°	5941.9	26.1
60°-70°	2652.2	11.6
70°-80°	766.1	3.4
80°-90°	124.3	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°	22770.0	100.0
0°-180°	22770.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532764

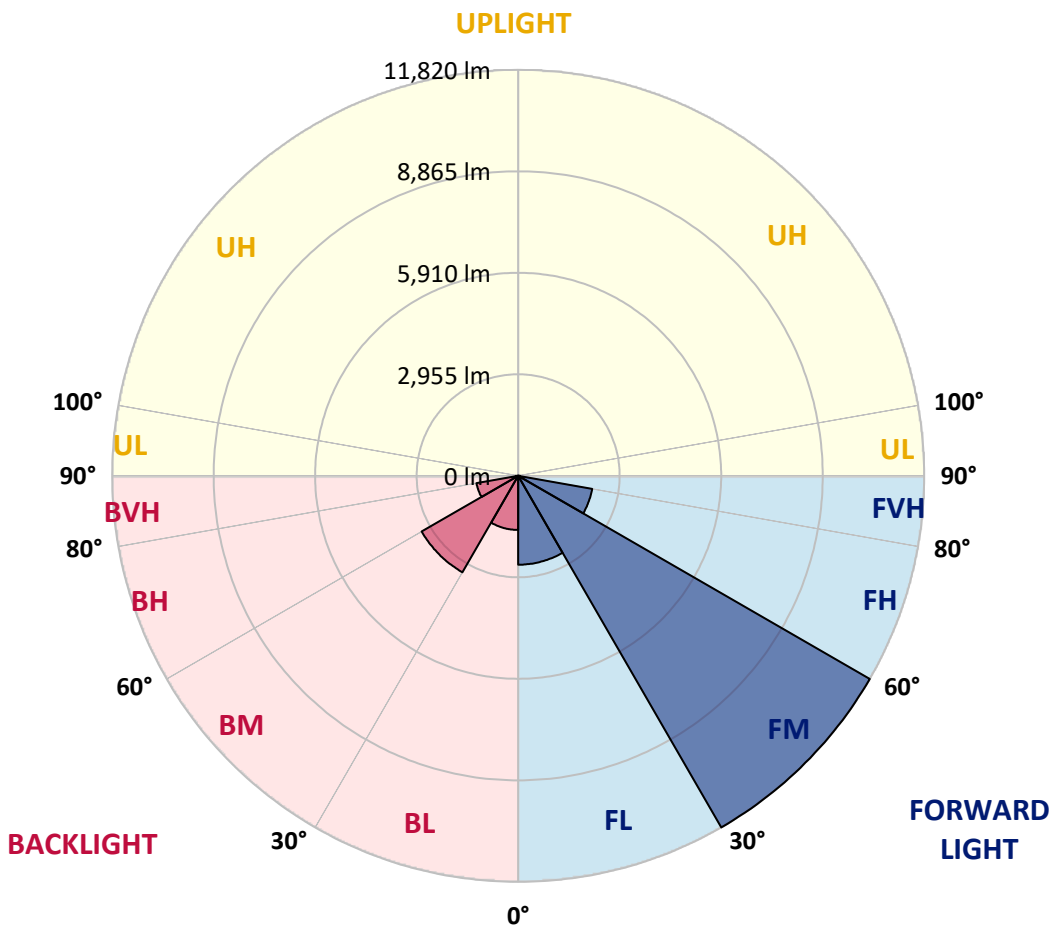
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2587.6	11.4			
FM (30°-60°)	11820.3	51.9			
FH (60°-80°)	2186.5	9.6			G2/5000
FVH (80°-90°)	53.5	0.2			G1/100
BL (0°-30°)	1575.4	6.9	B3/2500		
BM (30°-60°)	3244.3	14.2	B3/5000		
BH (60°-80°)	1231.8	5.4	B3/2500		G3/2500
BVH (80°-90°)	70.8	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: P532764

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4356.7	4356.7	4356.7	4356.7	4356.7	4356.7	4356.7	4356.7	4356.7	4356.7	4356.7
2.5°	4799.5	4722.8	4716.9	4696.2	4708.0	4654.9	4598.8	4525.0	4448.3	4495.5	4383.3
5°	5136.0	5032.7	5074.0	5003.2	5012.0	4941.2	4826.1	4740.5	4646.0	4589.9	4510.2
7.5°	5254.1	5262.9	5292.4	5280.6	5221.6	5221.6	5144.9	4994.3	4829.0	4796.6	4663.7
10°	5413.5	5416.4	5383.9	5392.8	5475.5	5437.1	5369.2	5304.3	5091.7	5053.4	4817.2
12.5°	5469.5	5416.4	5469.5	5516.8	5614.2	5667.3	5652.6	5605.3	5378.0	5351.5	5006.1
15°	5478.4	5445.9	5490.2	5596.5	5682.1	5906.4	6018.6	5986.1	5685.0	5688.0	5218.7
17.5°	5437.1	5481.4	5499.1	5590.6	5788.3	5997.9	6322.6	6366.9	6118.9	6080.6	5487.3
20°	5493.2	5460.7	5484.3	5567.0	5829.7	6157.3	6582.3	6874.6	6526.3	6499.7	5764.7
22.5°	5708.6	5664.4	5658.5	5711.6	5900.5	6239.9	6856.9	7382.3	7022.2	7036.9	6110.1
25°	5876.9	5900.5	5879.8	5876.9	5995.0	6363.9	7219.9	7987.4	7695.1	7609.5	6517.4
27.5°	6166.2	6222.2	6180.9	6237.0	6210.4	6549.9	7479.7	8657.4	8421.3	8306.2	6886.4
30°	6567.6	6597.1	6558.7	6558.7	6479.0	6809.6	7715.8	9357.0	9259.6	9103.1	7320.3
32.5°	7095.9	7140.2	7063.5	7019.2	7007.4	7196.3	8140.9	10047.7	10213.0	10080.1	7895.9
35°	7795.5	7768.9	7677.4	7636.1	7476.7	7789.6	8772.5	10841.7	11275.6	11039.5	8592.5
37.5°	8412.4	8371.1	8365.2	8135.0	8173.3	8430.1	9309.7	11443.8	12305.7	12237.9	9327.5
40°	8988.0	9026.4	9088.4	8958.5	8899.5	9182.8	9935.5	11904.3	13105.7	13079.1	9894.2
42.5°	9604.9	9569.5	9678.7	9569.5	9480.9	9882.4	10614.4	12223.1	13808.2	13589.7	10487.5
45°	10499.3	10387.1	10425.5	10434.4	10369.4	10517.0	10894.8	12453.3	14301.1	14277.5	10921.4
47.5°	11246.1	11249.0	11184.1	11133.9	10936.1	11083.7	11207.7	12598.0	14867.8	14829.5	11089.6
50°	11523.5	11485.2	11674.1	11783.3	11795.1	11494.0	11452.7	12677.7	15166.0	14997.7	11257.9
52.5°	10525.9	10561.3	10859.4	11508.8	11883.6	11916.1	11739.0	12843.0	15287.0	15251.6	11393.7
55°	8471.5	8642.7	9132.6	9882.4	10770.8	11747.9	12048.9	13014.2	15351.9	15322.4	11995.8
56°	7447.2	7580.0	8217.6	8805.0	9920.8	11136.9	11854.1	13197.2	15402.1	15540.8	12137.5
57.5°	5995.0	6148.4	6606.0	7273.1	8589.5	9973.9	11316.9	12972.8	15207.3	15260.4	12240.8
60°	3748.7	3763.5	4312.5	4752.3	5679.1	7031.0	8636.7	11287.4	14073.8	13997.1	10995.2
62.5°	2458.8	2461.7	2960.6	3320.7	3742.8	4052.7	5082.9	7485.6	10384.2	10248.4	7828.0
65°	1726.8	1765.1	2151.8	2632.9	2804.1	2641.8	2609.3	3946.5	5800.1	5605.3	4206.2
67.5°	1263.3	1266.3	1608.7	2125.2	2373.2	2010.1	1632.3	1927.5	2296.4	2290.5	1948.1
70°	835.3	870.8	1133.5	1588.0	1871.4	1614.6	1334.2	1378.5	1461.1	1461.1	1449.3
72.5°	487.0	519.5	693.7	1006.5	1050.8	1009.5	1056.7	1180.7	1233.8	1230.9	1216.1
75°	277.5	292.2	330.6	419.1	522.5	616.9	776.3	894.4	947.5	980.0	941.6
77.5°	162.3	171.2	194.8	239.1	271.6	333.5	422.1	504.7	575.6	566.7	572.6
80°	85.6	85.6	109.2	141.7	188.9	236.1	280.4	327.6	366.0	374.9	383.7
82.5°	50.2	53.1	70.8	103.3	135.8	168.2	215.5	247.9	283.4	286.3	292.2
85°	26.6	29.5	44.3	67.9	91.5	103.3	106.3	100.4	109.2	103.3	118.1
87.5°	8.9	8.9	14.8	11.8	11.8	14.8	17.7	17.7	23.6	23.6	23.6
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°	4356.7	4356.7	4356.7	4356.7	4356.7	4356.7	4356.7	4356.7	4356.7	4356.7	4356.7
2.5°	4380.4	4380.4	4330.2	4235.7	4221.0	4182.6	4147.2	4144.2	4117.7	4094.0	4082.2
5°	4463.0	4371.5	4297.7	4212.1	4111.8	4064.5	4011.4	3952.4	3928.7	3952.4	3949.4
7.5°	4557.5	4480.7	4259.3	4099.9	3984.8	3937.6	3878.6	3816.6	3822.5	3822.5	3781.2
10°	4649.0	4545.7	4191.5	3987.8	3819.5	3784.1	3751.6	3775.3	3804.8	3810.7	3784.1
12.5°	4802.5	4569.3	4159.0	3875.6	3769.4	3692.6	3713.3	3778.2	3840.2	3822.5	3843.1
15°	4917.6	4589.9	4011.4	3760.5	3627.7	3663.1	3736.9	3781.2	3884.5	3872.7	3893.3
17.5°	5029.7	4601.7	3866.8	3607.0	3550.9	3648.3	3704.4	3831.3	3863.8	3934.7	3961.2
20°	5260.0	4625.4	3719.2	3512.6	3494.8	3607.0	3704.4	3763.5	3834.3	3896.3	3896.3
22.5°	5378.0	4613.5	3621.8	3388.6	3444.7	3515.5	3604.1	3704.4	3704.4	3763.5	3766.4
25°	5525.6	4566.3	3468.3	3329.5	3370.9	3438.8	3539.1	3503.7	3542.1	3542.1	3589.3
27.5°	5693.9	4466.0	3335.5	3223.3	3305.9	3379.7	3394.5	3370.9	3326.6	3320.7	3303.0
30°	5829.7	4342.0	3238.0	3187.9	3255.8	3297.1	3249.8	3199.7	3122.9	3117.0	3075.7
32.5°	6015.6	4188.5	3117.0	3099.3	3176.1	3179.0	3164.2	3087.5	2975.3	2928.1	2880.9
35°	6328.5	4099.9	3025.5	3052.1	3075.7	3066.8	3040.3	2957.6	2845.5	2824.8	2807.1
37.5°	6558.7	4035.0	2931.1	2963.5	2984.2	2996.0	2916.3	2824.8	2827.8	2786.4	2774.6
40°	6818.5	3993.7	2854.3	2869.1	2872.0	2910.4	2813.0	2768.7	2789.4	2762.8	2780.5
42.5°	7152.0	4005.5	2774.6	2762.8	2818.9	2804.1	2756.9	2697.9	2709.7	2630.0	2641.8
45°	7329.1	4085.2	2727.4	2674.3	2736.2	2733.3	2671.3	2615.2	2544.4	2390.9	2396.8
47.5°	7447.2	4105.9	2615.2	2579.8	2644.7	2683.1	2612.3	2482.4	2382.0	2272.8	2246.3
50°	7568.2	4144.2	2562.1	2488.3	2514.9	2606.4	2517.8	2393.8	2296.4	2199.0	2213.8
52.5°	7674.5	4218.0	2458.8	2349.6	2396.8	2497.2	2449.9	2299.4	2193.1	2113.4	2089.8
55°	8146.8	4383.3	2284.6	2143.0	2255.1	2382.0	2355.5	2172.5	2057.4	2016.0	2010.1
56°	8220.6	4389.2	2193.1	2072.1	2175.4	2343.7	2311.2	2116.4	2013.1	1948.1	1951.1
57.5°	8232.4	4318.4	2063.3	2007.2	2095.7	2287.6	2246.3	2072.1	1930.4	1871.4	1853.7
60°	7243.5	3370.9	1900.9	1865.5	1968.8	2116.4	2101.6	1951.1	1791.7	1723.8	1756.3
62.5°	4938.2	2470.6	1774.0	1768.1	1821.2	1965.8	1927.5	1791.7	1658.9	1614.6	1593.9
65°	2875.0	1874.3	1650.0	1626.4	1670.7	1747.4	1774.0	1632.3	1493.6	1464.1	1455.2
67.5°	1697.2	1549.7	1490.6	1452.2	1437.5	1484.7	1505.4	1422.7	1284.0	1242.7	1278.1
70°	1419.8	1378.5	1381.4	1316.5	1281.0	1248.6	1230.9	1157.1	1042.0	988.8	974.1
72.5°	1225.0	1207.3	1195.4	1136.4	1103.9	1030.2	953.4	879.6	794.0	749.7	752.7
75°	935.7	929.8	935.7	906.2	850.1	791.1	720.2	625.8	560.8	504.7	516.6
77.5°	557.9	575.6	584.4	572.6	549.0	495.9	451.6	389.6	327.6	283.4	277.5
80°	383.7	398.5	413.2	398.5	374.9	336.5	289.3	242.0	197.8	174.2	168.2
82.5°	292.2	307.0	315.8	301.1	271.6	230.2	197.8	165.3	129.9	106.3	100.4
85°	106.3	121.0	118.1	141.7	153.5	147.6	126.9	97.4	73.8	53.1	50.2
87.5°	29.5	26.6	29.5	29.5	29.5	26.6	23.6	23.6	23.6	14.8	11.8
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)