

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: P530086

Luminaire Tested: **GALN-SA5B-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530086
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-SA5B-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA 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: 22266 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

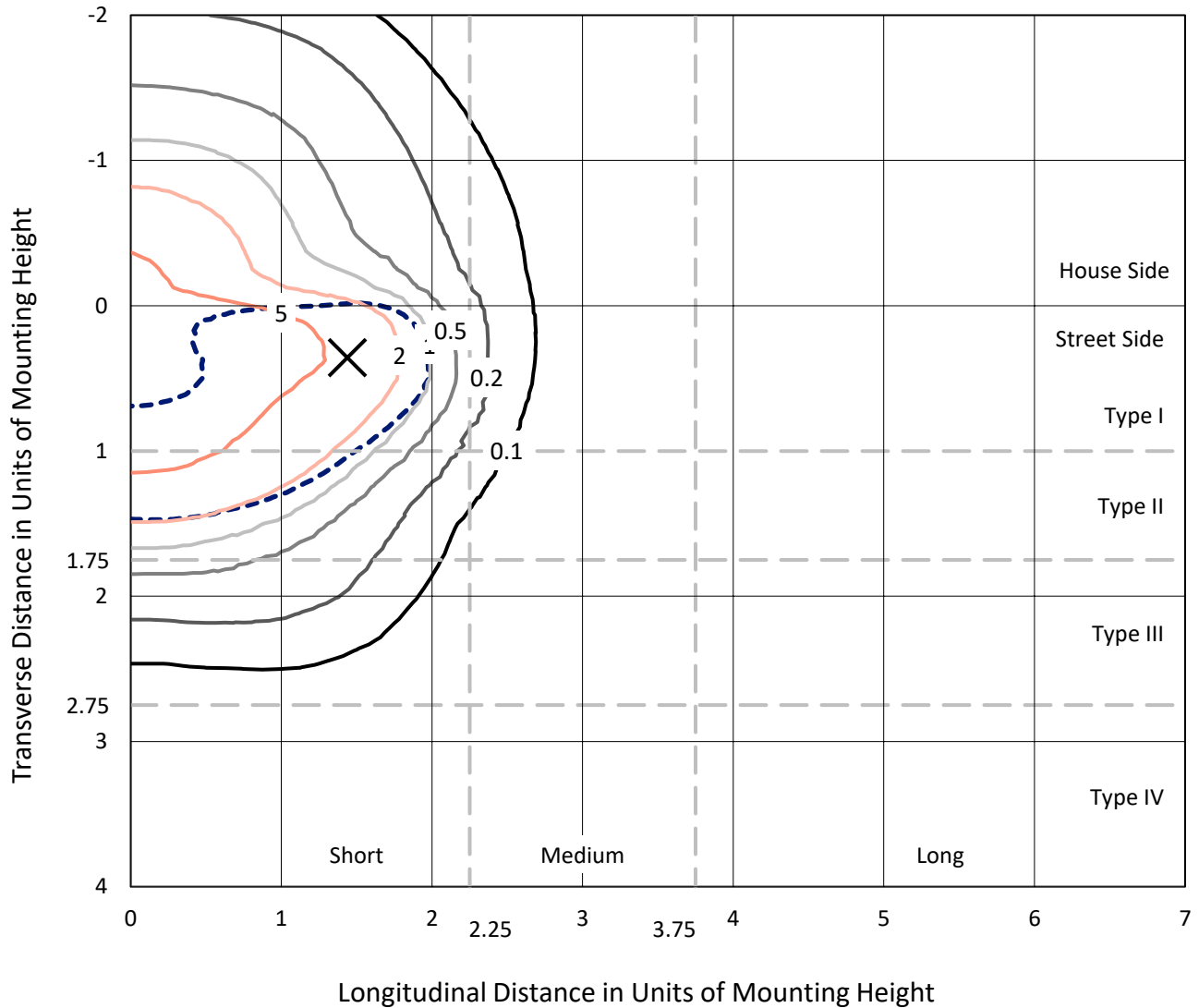
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

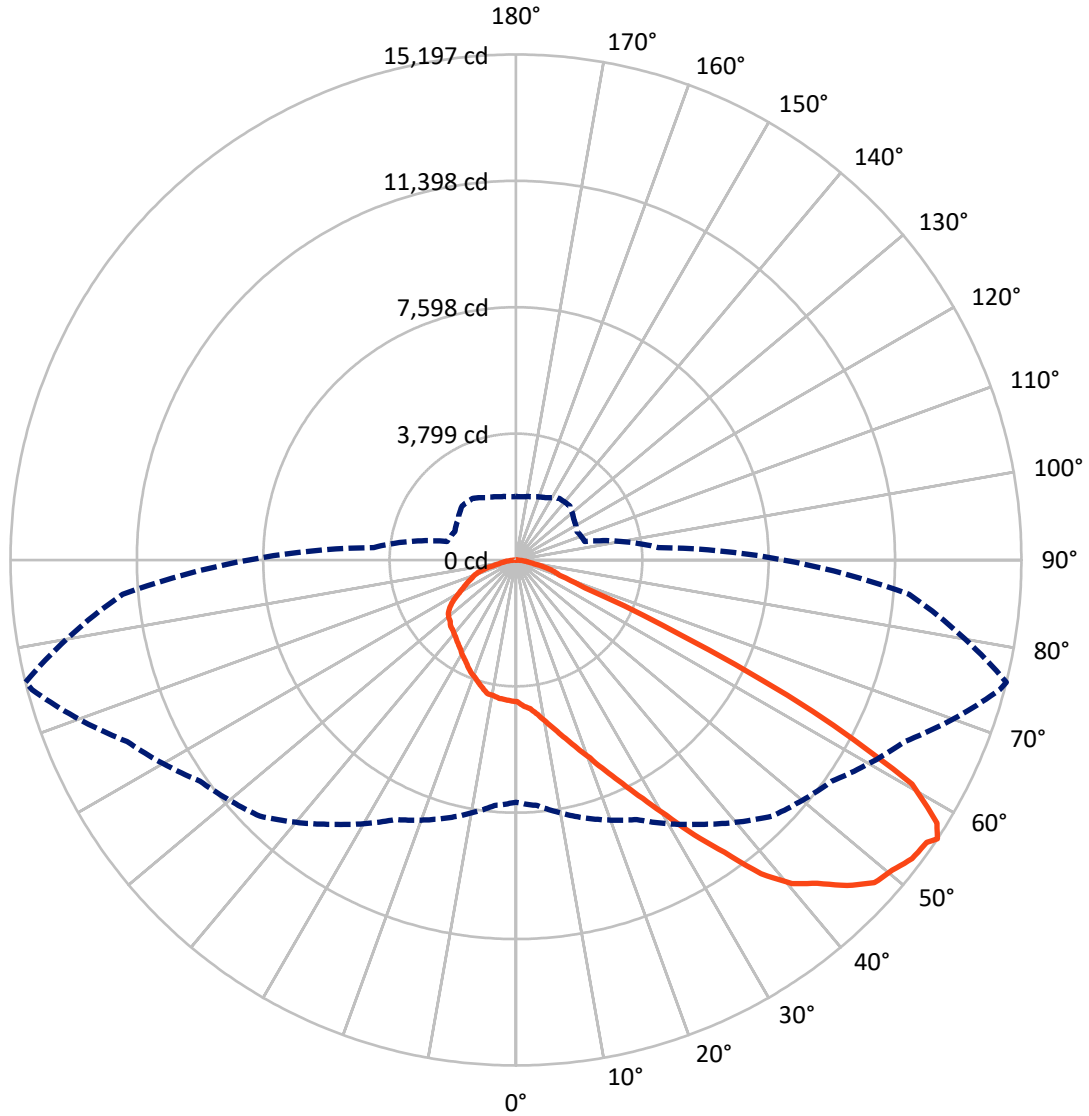
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type II - Short - N/A

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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	5986.7	0.0	5986.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	16279.3	0.0	16279.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	22266.0	0.0	22266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.5	1.9
10°-20°	1327.2	6.0
20°-30°	2321.1	10.4
30°-40°	3634.1	16.3
40°-50°	5286.6	23.7
50°-60°	5810.3	26.1
60°-70°	2593.5	11.6
70°-80°	749.1	3.4
80°-90°	121.5	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°	22266.0	100.0
0°-180°	22266.0	100.0

Coefficient of Utilization



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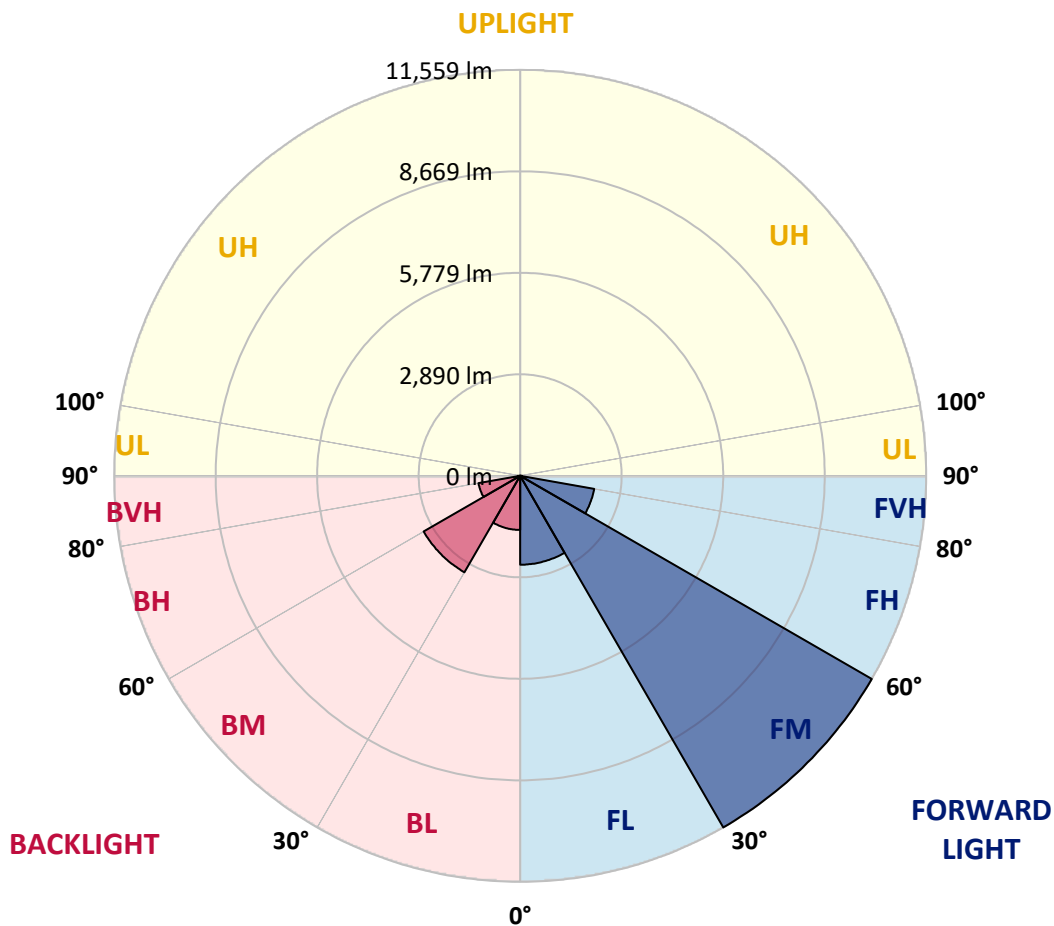
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2530.3	11.4			
FM (30°-60°)	11558.7	51.9			
FH (60°-80°)	2138.1	9.6			G2/5000
FVH (80°-90°)	52.3	0.2			G1/100
BL (0°-30°)	1540.5	6.9	B3/2500		
BM (30°-60°)	3172.4	14.2	B3/5000		
BH (60°-80°)	1204.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	69.2	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°	76°	85°
0°	4260.3	4260.3	4260.3	4260.3	4260.3	4260.3	4260.3	4260.3	4260.3	4260.3	4260.3
2.5°	4693.3	4618.2	4612.5	4592.2	4603.8	4551.8	4497.0	4424.8	4349.8	4396.0	4286.3
5°	5022.3	4921.3	4961.7	4892.4	4901.1	4831.8	4719.2	4635.5	4543.2	4488.3	4410.4
7.5°	5137.8	5146.4	5175.3	5163.8	5106.0	5106.0	5031.0	4883.8	4722.1	4690.4	4560.5
10°	5293.6	5296.5	5264.8	5273.4	5354.3	5316.7	5250.3	5186.8	4979.0	4941.5	4710.6
12.5°	5348.5	5296.5	5348.5	5394.7	5489.9	5541.9	5527.4	5481.3	5259.0	5233.0	4895.3
15°	5357.1	5325.4	5368.7	5472.6	5556.3	5775.7	5885.4	5853.6	5559.2	5562.1	5103.1
17.5°	5316.7	5360.0	5377.3	5466.8	5660.2	5865.1	6182.6	6225.9	5983.5	5946.0	5365.8
20°	5371.6	5339.8	5362.9	5443.7	5700.6	6021.0	6436.7	6722.4	6381.8	6355.8	5637.1
22.5°	5582.3	5539.0	5533.2	5585.2	5769.9	6101.8	6705.1	7218.9	6866.7	6881.2	5974.8
25°	5746.8	5769.9	5749.7	5746.8	5862.3	6223.1	7060.1	7810.6	7524.8	7441.1	6373.2
27.5°	6029.7	6084.5	6044.1	6098.9	6073.0	6404.9	7314.1	8465.8	8234.9	8122.3	6734.0
30°	6422.2	6451.1	6413.6	6413.6	6335.6	6658.9	7545.0	9149.9	9054.6	8901.6	7158.2
32.5°	6938.9	6982.2	6907.1	6863.8	6852.3	7037.0	7960.7	9825.3	9986.9	9857.0	7721.1
35°	7623.0	7597.0	7507.5	7467.1	7311.2	7617.2	8578.4	10601.7	11026.0	10795.1	8402.3
37.5°	8226.2	8185.8	8180.0	7954.9	7992.4	8243.5	9103.7	11190.5	12033.4	11967.0	9121.0
40°	8789.1	8826.6	8887.2	8760.2	8702.5	8979.6	9715.6	11640.8	12815.6	12789.6	9675.2
42.5°	9392.3	9357.7	9464.5	9357.7	9271.1	9663.6	10379.5	11952.5	13502.5	13288.9	10255.3
45°	10266.9	10157.2	10194.7	10203.4	10139.9	10284.2	10653.7	12177.7	13984.6	13961.5	10679.6
47.5°	10997.1	11000.0	10936.5	10887.5	10694.1	10838.4	10959.6	12319.1	14538.8	14501.2	10844.2
50°	11268.5	11230.9	11415.7	11522.5	11534.0	11239.6	11199.2	12397.0	14830.3	14665.8	11008.7
52.5°	10292.9	10327.5	10619.0	11254.0	11620.6	11652.4	11479.2	12558.7	14948.6	14914.0	11141.5
55°	8283.9	8451.4	8930.5	9663.6	10532.4	11487.8	11782.2	12726.1	15012.1	14983.3	11730.3
56°	7282.4	7412.3	8035.7	8610.1	9701.2	10890.4	11591.7	12905.1	15061.2	15196.8	11868.8
57.5°	5862.3	6012.4	6459.7	7112.1	8399.4	9753.1	11066.4	12685.7	14870.7	14922.6	11969.9
60°	3665.7	3680.1	4217.0	4647.1	5553.4	6875.4	8445.6	11037.6	13762.3	13687.3	10751.8
62.5°	2404.4	2407.3	2895.1	3247.2	3659.9	3963.0	4970.4	7319.9	10154.3	10021.5	7654.7
65°	1688.5	1726.1	2104.2	2574.7	2742.1	2583.3	2551.6	3859.1	5671.8	5481.3	4113.1
67.5°	1235.4	1238.3	1573.1	2078.2	2320.7	1965.6	1596.2	1884.8	2245.6	2239.8	1905.0
70°	816.8	851.5	1108.4	1552.9	1830.0	1578.9	1304.6	1347.9	1428.8	1428.8	1417.2
72.5°	476.3	508.0	678.3	984.3	1027.6	987.1	1033.3	1154.6	1206.5	1203.6	1189.2
75°	271.3	285.8	323.3	409.9	510.9	603.3	759.1	874.6	926.5	958.3	920.8
77.5°	158.8	167.4	190.5	233.8	265.5	326.2	412.8	493.6	562.8	554.2	560.0
80°	83.7	83.7	106.8	138.5	184.7	230.9	274.2	320.4	357.9	366.6	375.2
82.5°	49.1	52.0	69.3	101.0	132.8	164.5	210.7	242.5	277.1	280.0	285.8
85°	26.0	28.9	43.3	66.4	89.5	101.0	103.9	98.1	106.8	101.0	115.5
87.5°	8.7	8.7	14.4	11.5	11.5	14.4	17.3	17.3	23.1	23.1	23.1
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°	4260.3	4260.3	4260.3	4260.3	4260.3	4260.3	4260.3	4260.3	4260.3	4260.3	4260.3
2.5°	4283.4	4283.4	4234.3	4142.0	4127.5	4090.0	4055.4	4052.5	4026.5	4003.4	3991.9
5°	4364.2	4274.7	4202.6	4118.9	4020.7	3974.6	3922.6	3864.9	3841.8	3864.9	3862.0
7.5°	4456.6	4381.5	4165.1	4009.2	3896.6	3850.4	3792.7	3732.1	3737.9	3737.9	3697.5
10°	4546.1	4445.0	4098.7	3899.5	3735.0	3700.4	3668.6	3691.7	3720.6	3726.3	3700.4
12.5°	4696.2	4468.1	4066.9	3789.8	3685.9	3610.9	3631.1	3694.6	3755.2	3737.9	3758.1
15°	4808.7	4488.3	3922.6	3677.3	3547.4	3582.0	3654.2	3697.5	3798.5	3786.9	3807.1
17.5°	4918.4	4499.9	3781.2	3527.2	3472.3	3567.6	3622.4	3746.5	3778.3	3847.6	3873.5
20°	5143.5	4523.0	3636.9	3434.8	3417.5	3527.2	3622.4	3680.1	3749.4	3810.0	3810.0
22.5°	5259.0	4511.4	3541.6	3313.6	3368.4	3437.7	3524.3	3622.4	3622.4	3680.1	3683.0
25°	5403.3	4465.2	3391.5	3255.8	3296.3	3362.6	3460.8	3426.1	3463.7	3463.7	3509.9
27.5°	5567.8	4367.1	3261.6	3151.9	3232.8	3304.9	3319.3	3296.3	3253.0	3247.2	3229.9
30°	5700.6	4245.9	3166.4	3117.3	3183.7	3224.1	3177.9	3128.8	3053.8	3048.0	3007.6
32.5°	5882.5	4095.8	3048.0	3030.7	3105.8	3108.6	3094.2	3019.2	2909.5	2863.3	2817.1
35°	6188.4	4009.2	2958.6	2984.5	3007.6	2999.0	2973.0	2892.2	2782.5	2762.3	2745.0
37.5°	6413.6	3945.7	2866.2	2897.9	2918.1	2929.7	2851.8	2762.3	2765.2	2724.8	2713.2
40°	6667.6	3905.3	2791.1	2805.6	2808.5	2846.0	2750.7	2707.4	2727.6	2701.7	2719.0
42.5°	6993.7	3916.8	2713.2	2701.7	2756.5	2742.1	2695.9	2638.2	2649.7	2571.8	2583.3
45°	7166.9	3994.8	2667.0	2615.1	2675.7	2672.8	2612.2	2557.3	2488.1	2338.0	2343.7
47.5°	7282.4	4015.0	2557.3	2522.7	2586.2	2623.7	2554.5	2427.5	2329.3	2222.5	2196.5
50°	7400.7	4052.5	2505.4	2433.2	2459.2	2548.7	2462.1	2340.9	2245.6	2150.4	2164.8
52.5°	7504.6	4124.7	2404.4	2297.6	2343.7	2441.9	2395.7	2248.5	2144.6	2066.7	2043.6
55°	7966.4	4286.3	2234.1	2095.5	2205.2	2329.3	2303.3	2124.4	2011.8	1971.4	1965.6
56°	8038.6	4292.1	2144.6	2026.2	2127.3	2291.8	2260.0	2069.5	1968.5	1905.0	1907.9
57.5°	8050.1	4222.8	2017.6	1962.7	2049.3	2237.0	2196.5	2026.2	1887.7	1830.0	1812.7
60°	7083.2	3296.3	1858.8	1824.2	1925.2	2069.5	2055.1	1907.9	1752.0	1685.7	1717.4
62.5°	4828.9	2415.9	1734.7	1728.9	1780.9	1922.3	1884.8	1752.0	1622.2	1578.9	1558.7
65°	2811.3	1832.9	1613.5	1590.4	1633.7	1708.7	1734.7	1596.2	1460.5	1431.6	1423.0
67.5°	1659.7	1515.4	1457.6	1420.1	1405.7	1451.9	1472.1	1391.2	1255.6	1215.2	1249.8
70°	1388.4	1347.9	1350.8	1287.3	1252.7	1220.9	1203.6	1131.5	1018.9	966.9	952.5
72.5°	1197.9	1180.5	1169.0	1111.3	1079.5	1007.4	932.3	860.1	776.4	733.1	736.0
75°	915.0	909.2	915.0	886.1	831.3	773.6	704.3	611.9	548.4	493.6	505.1
77.5°	545.5	562.8	571.5	560.0	536.9	484.9	441.6	381.0	320.4	277.1	271.3
80°	375.2	389.7	404.1	389.7	366.6	329.0	282.9	236.7	193.4	170.3	164.5
82.5°	285.8	300.2	308.8	294.4	265.5	225.1	193.4	161.6	127.0	103.9	98.1
85°	103.9	118.3	115.5	138.5	150.1	144.3	124.1	95.3	72.2	52.0	49.1
87.5°	28.9	26.0	28.9	28.9	28.9	26.0	23.1	23.1	23.1	14.4	11.5
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)