

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: P647129

Luminaire Tested: **GALN-SA8C-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647129
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45302 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

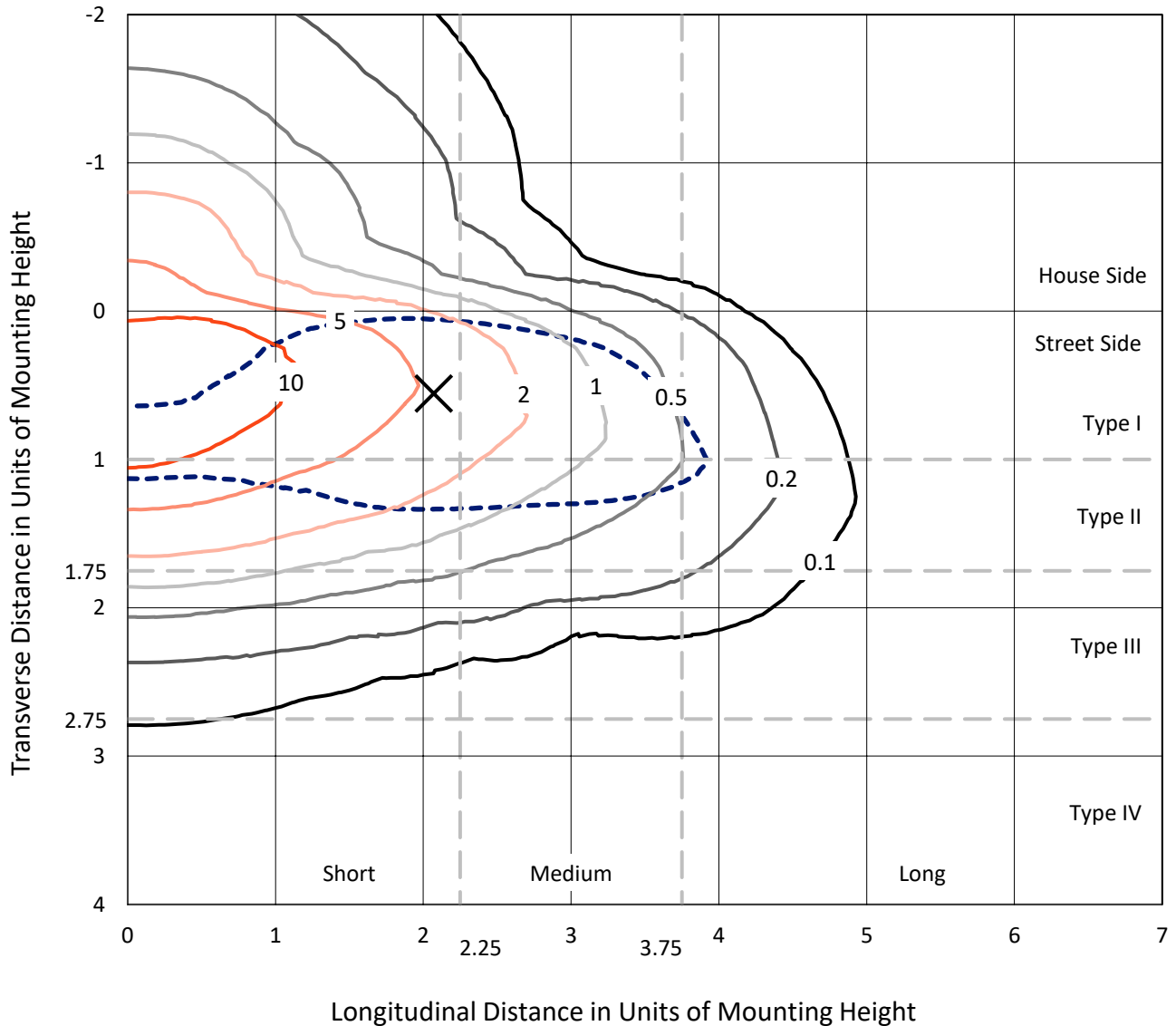
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

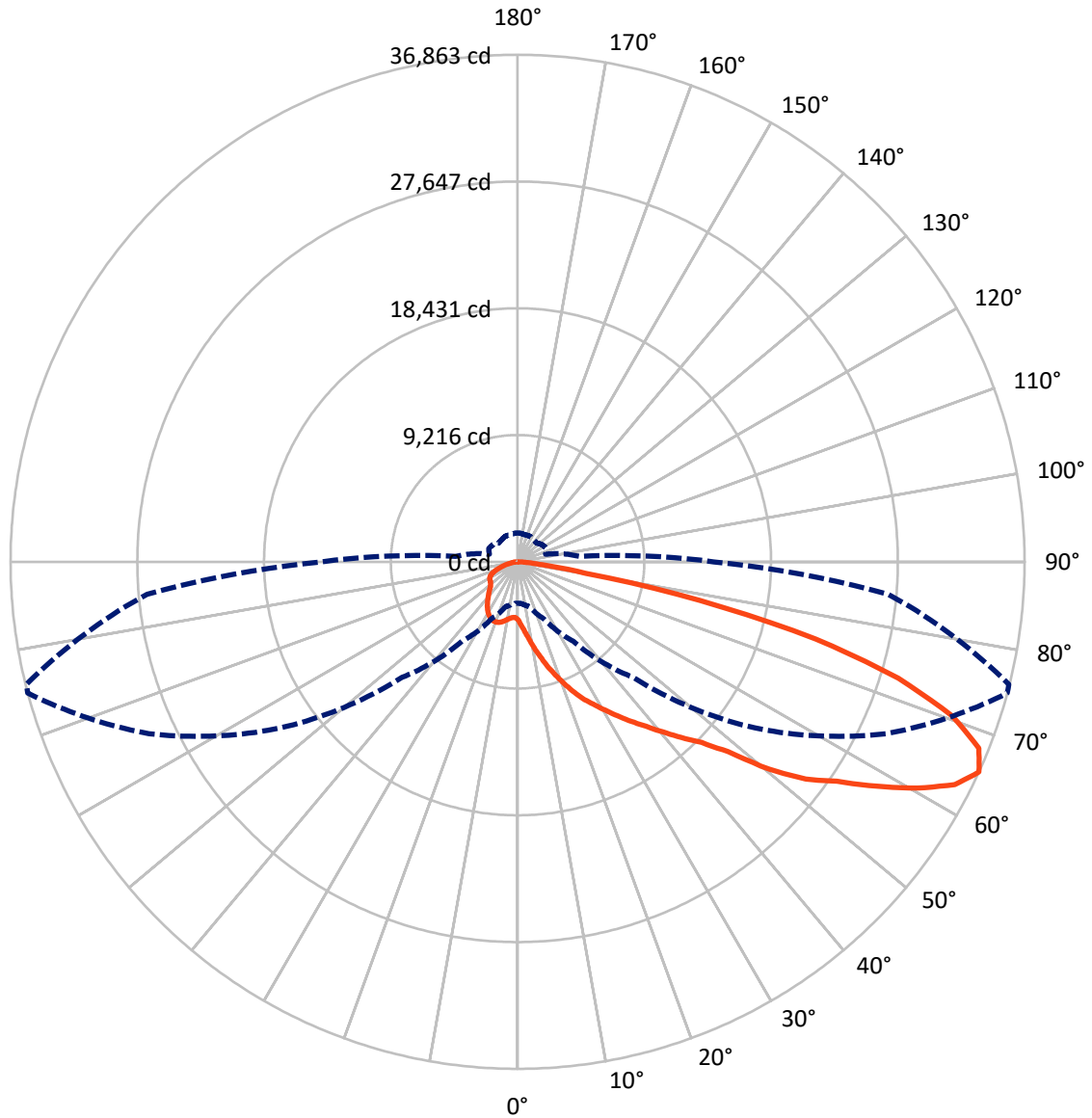
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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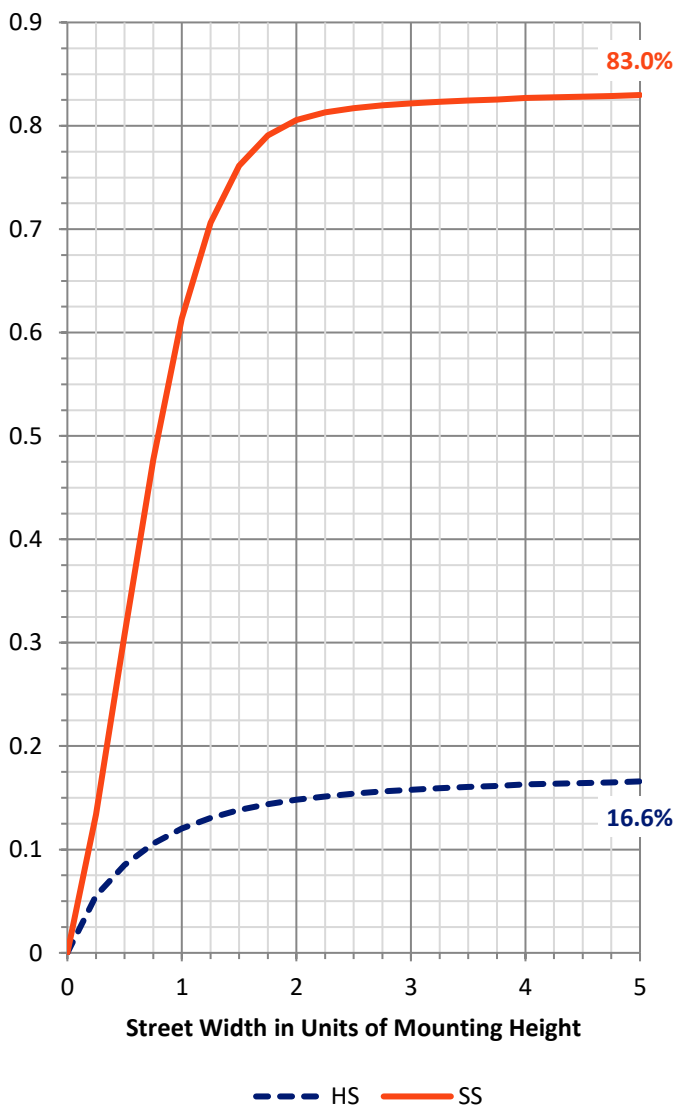
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7615.9	0.0	7615.9
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	37686.2	0.0	37686.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	45302.0	0.0	45302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.4	1.1
10°-20°	2003.1	4.4
20°-30°	3869.2	8.5
30°-40°	6284.8	13.9
40°-50°	8645.4	19.1
50°-60°	10207.2	22.5
60°-70°	8943.2	19.7
70°-80°	4269.6	9.4
80°-90°	568.1	1.3
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°	45302.0	100.0
0°-180°	45302.0	100.0

Coefficient of Utilization

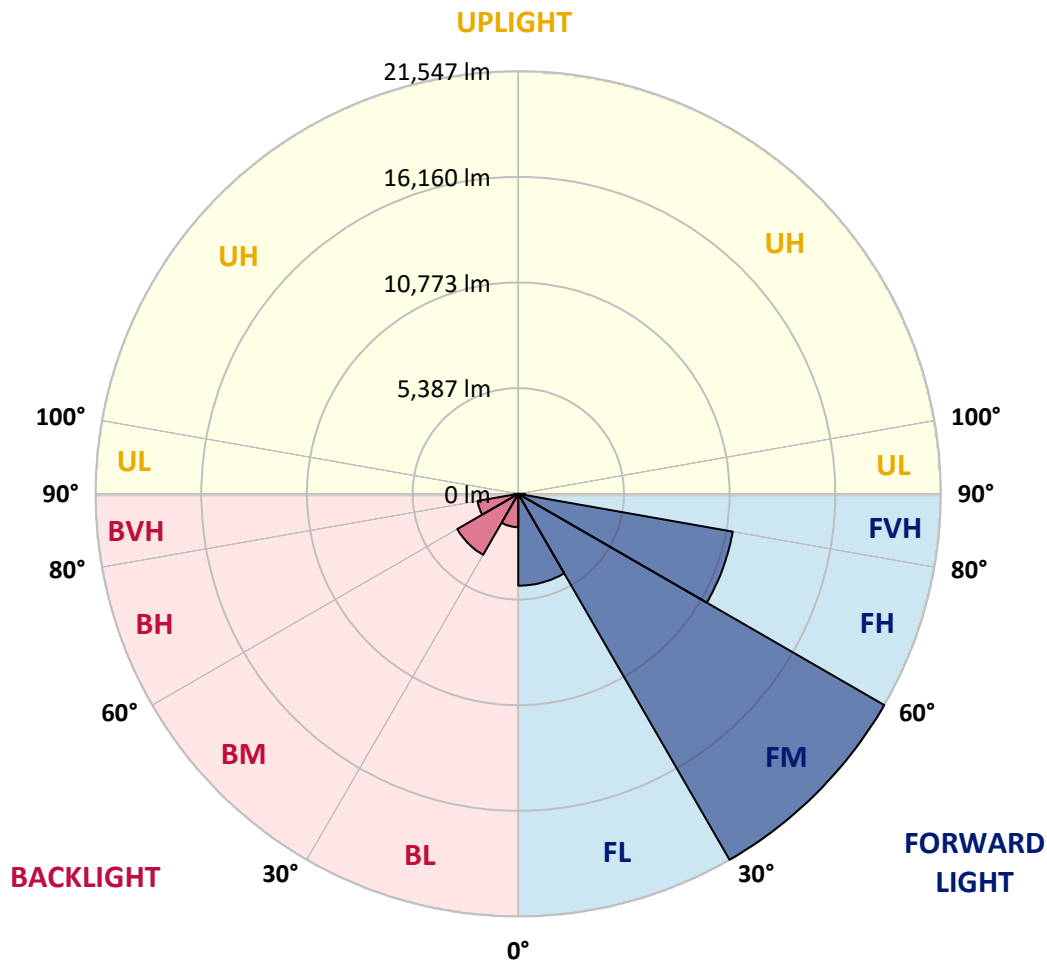


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4683.5	10.3			
FM (30°-60°)	21546.6	47.6			
FH (60°-80°)	11101.0	24.5			G4/12000
FVH (80°-90°)	355.0	0.8			G3/500
BL (0°-30°)	1700.2	3.8	B3/2500		
BM (30°-60°)	3590.8	7.9	B3/5000		
BH (60°-80°)	2111.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	213.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1
2.5°	5592.5	5555.7	5516.3	5408.3	5292.8	5162.5	4975.7	4796.4	4558.1	4550.6	4373.8
5°	7143.0	7118.4	6944.0	6843.2	6575.4	6219.1	5916.9	5447.6	5012.6	4961.0	4617.0
7.5°	8568.1	8472.3	8406.0	8224.2	7958.8	7501.8	6916.9	6282.9	5555.7	5486.9	4916.8
10°	9641.9	9632.1	9597.7	9440.5	9241.4	8786.8	8138.1	7229.0	6243.6	6108.5	5280.5
12.5°	10445.5	10452.8	10447.9	10445.5	10302.9	9917.2	9214.4	8256.1	6939.0	6843.2	5700.6
15°	10973.7	11047.4	11076.9	11199.8	11212.1	10954.1	10349.6	9248.8	7722.9	7580.4	6152.7
17.5°	11322.6	11359.5	11497.1	11705.9	11875.5	11828.8	11290.7	10167.8	8523.9	8285.5	6622.1
20°	11656.8	11720.7	11826.4	12111.4	12411.2	12548.7	12170.3	11108.9	9317.6	9165.2	7140.6
22.5°	12352.2	12443.1	12479.9	12624.9	12880.5	13123.7	12951.8	12010.7	10187.5	9981.1	7690.9
25°	13529.1	13625.0	13521.8	13487.4	13571.0	13691.4	13654.5	12860.9	11008.1	10713.2	8211.9
27.5°	15062.4	15074.7	14873.2	14681.6	14475.2	14413.8	14300.7	13615.2	11720.7	11474.9	8735.2
30°	16708.8	16649.8	16315.6	15969.1	15620.2	15276.3	14951.9	14342.5	12514.4	12231.8	9248.8
32.5°	18237.1	18205.1	17834.2	17296.0	16706.3	16381.9	15725.9	15077.2	13364.6	13091.8	9777.1
35°	19382.1	19428.8	19020.9	18433.7	17789.9	17502.4	16674.4	15848.7	14244.2	13946.9	10352.0
37.5°	20195.4	20170.9	19809.7	19301.0	18735.9	18485.3	17782.6	16691.5	15190.2	14905.2	10981.1
40°	20485.4	20470.7	20202.8	19831.8	19473.1	19384.6	18942.3	17600.7	16273.8	15939.7	11737.9
42.5°	20301.2	20333.1	20156.1	20055.4	19989.1	20052.9	20094.8	18792.4	17455.7	17148.6	12558.6
45°	19736.0	19718.8	19694.2	19858.8	20232.3	20652.5	21234.9	19917.8	18740.8	18495.1	13659.4
47.5°	18726.1	18848.9	18910.4	19364.9	20180.7	21175.9	22547.0	21426.5	20605.8	20392.1	15337.6
50°	17313.2	17411.5	17775.2	18583.6	19799.9	21372.5	23829.7	23893.5	23716.6	23316.1	17160.9
52.5°	15106.7	15259.0	16008.4	17490.1	19018.5	21291.3	24606.1	26009.1	26242.6	25942.8	18957.1
55°	12637.2	12851.0	13642.2	15585.8	17942.3	20849.1	25141.7	27235.2	28166.5	27888.9	20686.9
57.5°	10219.4	10445.5	11258.8	13140.9	16065.0	19871.1	25493.1	28601.4	30785.8	30424.6	22839.4
60°	7659.0	7894.9	8592.7	10531.4	13391.6	17959.4	25254.8	29785.8	33402.8	33248.0	24994.3
62.5°	4941.4	5201.9	5808.8	7413.3	10293.1	15347.5	23979.5	30439.4	35668.2	35481.5	26566.9
65°	3010.0	3039.5	3373.7	4602.2	7044.7	11882.9	21062.9	29572.0	36862.5	36805.9	27046.1
67.5°	1946.1	1992.7	2145.1	2756.9	4223.9	8253.6	16841.5	26709.5	36164.6	36144.9	26055.8
70°	1643.8	1658.6	1727.4	1860.1	2454.7	5005.2	11826.4	22146.5	33513.3	33513.3	23674.8
72.5°	1469.4	1489.0	1513.6	1555.4	1752.0	2835.6	7057.0	17239.5	28935.6	29127.3	20151.2
75°	1334.2	1329.3	1344.1	1351.5	1494.0	1852.7	3648.9	12750.2	22384.8	22001.5	14593.2
77.5°	1142.6	1150.0	1142.6	1174.5	1319.5	1410.4	1852.7	8555.8	13566.0	13069.7	7324.8
80°	938.7	951.0	963.2	982.9	1127.8	1071.3	1113.1	3899.5	5017.5	4911.9	2263.0
82.5°	705.2	722.4	742.0	788.7	887.1	707.7	702.7	1666.0	1810.9	1658.6	833.0
85°	285.0	336.6	508.6	555.3	557.8	388.2	432.5	695.4	739.6	722.4	326.8
87.5°	66.3	78.6	164.7	248.2	228.5	145.0	159.7	226.1	258.0	238.3	110.6
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°	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1	4209.1
2.5°	4292.6	4206.7	4059.2	3946.2	3865.1	3793.9	3749.6	3722.6	3712.8	3710.3	3712.8
5°	4437.7	4285.3	4051.9	3904.4	3823.4	3776.6	3749.6	3747.2	3749.6	3752.1	3744.7
7.5°	4636.7	4418.0	4113.3	3975.7	3914.3	3879.8	3867.6	3862.7	3865.1	3862.7	3862.7
10°	4902.0	4602.2	4233.7	4091.2	4039.6	4000.3	3980.6	3968.3	3958.5	3948.7	3943.7
12.5°	5194.4	4806.2	4363.9	4226.3	4152.6	4091.2	4046.9	4015.0	3992.9	3970.7	3965.9
15°	5521.2	5022.5	4508.9	4317.2	4211.6	4120.7	4044.5	3992.9	3953.6	3921.7	3919.1
17.5°	5833.4	5226.4	4607.2	4359.0	4204.2	4076.5	3975.7	3904.4	3855.3	3813.5	3808.6
20°	6167.5	5420.6	4651.4	4332.0	4130.5	3975.7	3843.0	3757.0	3700.5	3653.8	3646.4
22.5°	6504.1	5585.1	4646.5	4246.0	4002.7	3820.9	3680.8	3589.9	3523.6	3476.9	3459.7
25°	6826.0	5717.9	4585.1	4108.4	3825.8	3636.6	3494.1	3410.5	3351.6	3295.1	3295.1
27.5°	7116.0	5796.5	4469.6	3941.3	3644.0	3445.0	3331.9	3255.7	3201.7	3164.8	3142.7
30°	7401.0	5833.4	4312.3	3730.0	3452.3	3282.8	3191.9	3147.7	3098.5	3056.8	3051.8
32.5°	7656.6	5825.9	4115.8	3523.6	3270.5	3150.1	3113.2	3078.8	3027.2	2968.3	2953.6
35°	7904.7	5776.8	3882.3	3297.5	3118.1	3071.5	3081.3	3032.2	2938.8	2865.1	2852.8
37.5°	8175.0	5688.3	3626.8	3113.2	2990.4	3034.6	3059.2	2951.0	2798.7	2683.3	2656.2
40°	8487.1	5587.6	3361.4	2929.0	2889.7	3000.2	3000.2	2801.2	2592.3	2521.0	2501.4
42.5°	8853.1	5504.0	3140.3	2774.2	2806.1	2916.7	2904.4	2602.1	2516.2	2479.3	2469.4
45°	9433.0	5474.6	2911.7	2639.0	2737.3	2818.4	2717.6	2533.3	2484.2	2454.7	2444.9
47.5°	10349.6	5509.0	2710.3	2538.3	2658.7	2720.1	2508.7	2486.7	2452.3	2410.5	2405.5
50°	11199.8	5477.0	2567.8	2481.7	2589.9	2602.1	2422.8	2430.1	2410.5	2363.8	2353.9
52.5°	11895.2	5376.3	2476.9	2452.3	2530.9	2395.7	2341.7	2368.7	2361.4	2302.3	2292.5
55°	12659.3	5314.8	2432.6	2452.3	2491.6	2216.4	2265.5	2304.8	2295.0	2253.2	2250.7
57.5°	13585.7	5327.1	2400.7	2459.6	2452.3	2125.5	2189.3	2236.0	2233.6	2221.3	2221.3
60°	14534.1	5332.1	2351.5	2457.1	2405.5	2054.2	2110.7	2177.1	2182.0	2189.3	2189.3
62.5°	14848.7	5118.3	2255.7	2413.0	2302.3	1985.4	2037.0	2127.9	2123.0	2142.7	2145.1
65°	14261.4	4526.1	2113.2	2312.2	2169.7	1936.3	1980.4	2064.0	2037.0	2088.6	2098.4
67.5°	12981.2	3744.7	1892.0	2130.4	2022.3	1884.7	1943.6	1975.6	1926.4	2027.2	2029.6
70°	11219.5	2924.0	1611.9	1872.4	1855.2	1830.6	1914.1	1865.0	1796.2	1919.1	1894.5
72.5°	9381.4	2233.6	1287.6	1530.8	1631.5	1749.5	1862.5	1722.4	1626.7	1663.5	1619.2
75°	7047.2	1651.2	1034.5	1199.1	1358.8	1634.0	1815.9	1550.5	1403.1	1368.6	1358.8
77.5°	3592.4	1078.7	774.0	896.8	1019.7	1476.7	1752.0	1349.0	1162.2	1108.2	1083.6
80°	1282.6	670.8	545.5	619.2	688.0	1270.3	1530.8	1115.5	901.8	891.9	901.8
82.5°	594.6	432.5	366.1	405.4	407.9	847.8	1167.1	833.0	685.5	1041.9	879.7
85°	255.6	216.3	206.4	201.5	186.7	378.4	656.1	447.2	697.8	312.0	287.5
87.5°	76.2	86.0	76.2	56.5	41.7	41.7	66.3	24.6	17.2	12.3	12.3
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)