

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: P651034

Luminaire Tested: **GALN-SA7C-840-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651034
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-SA7C-840-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 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: 41970.1 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

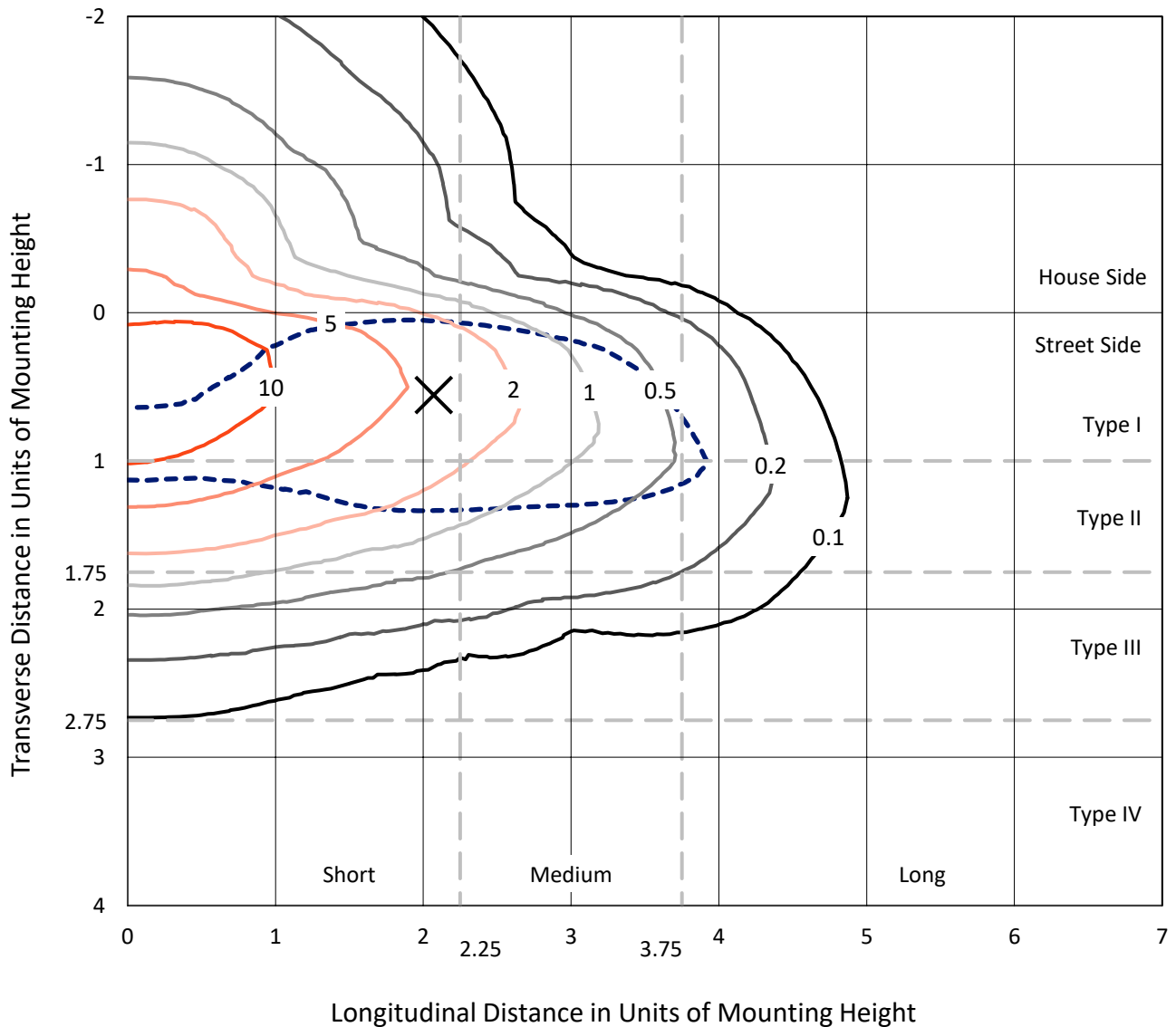
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

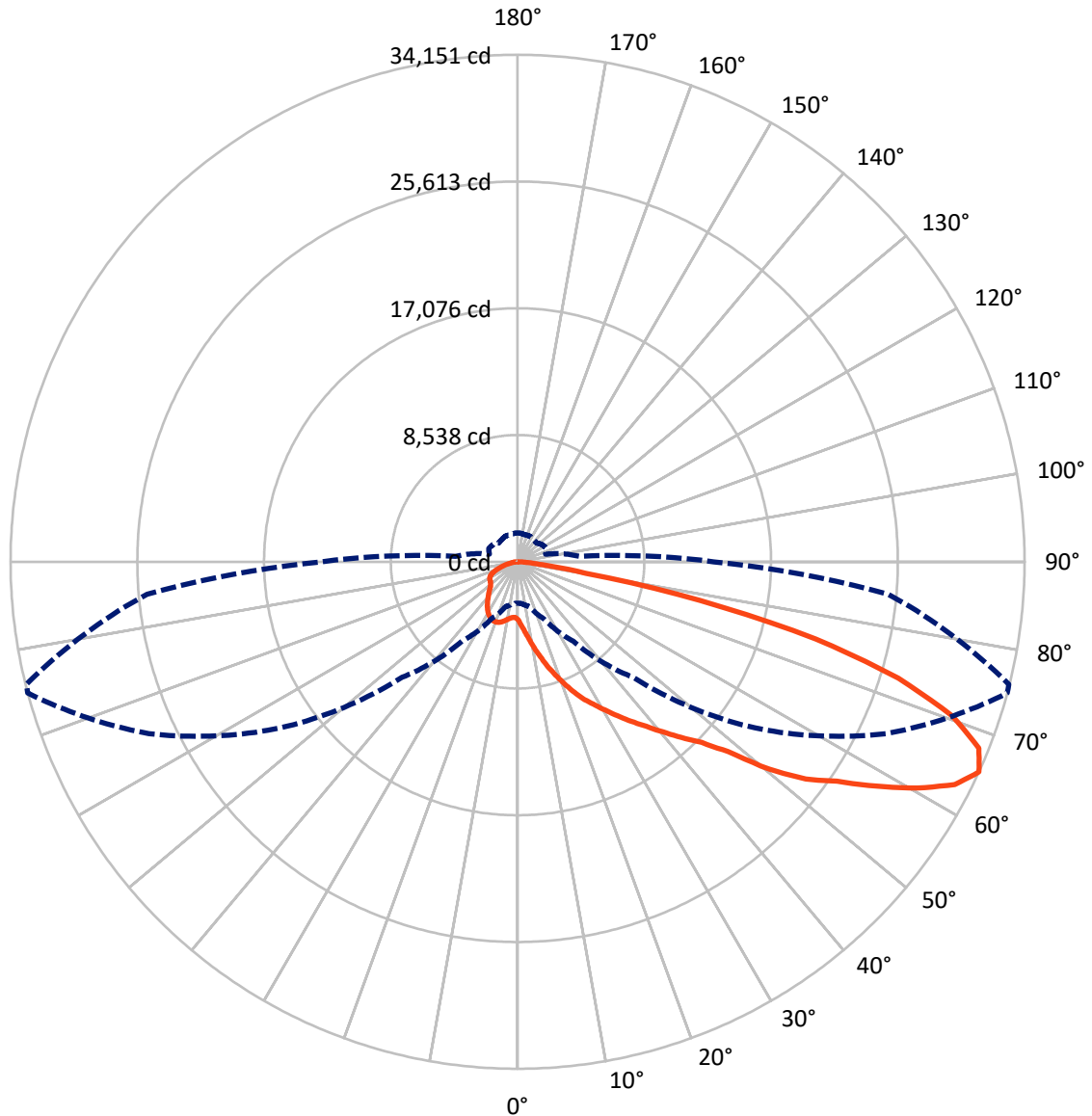
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 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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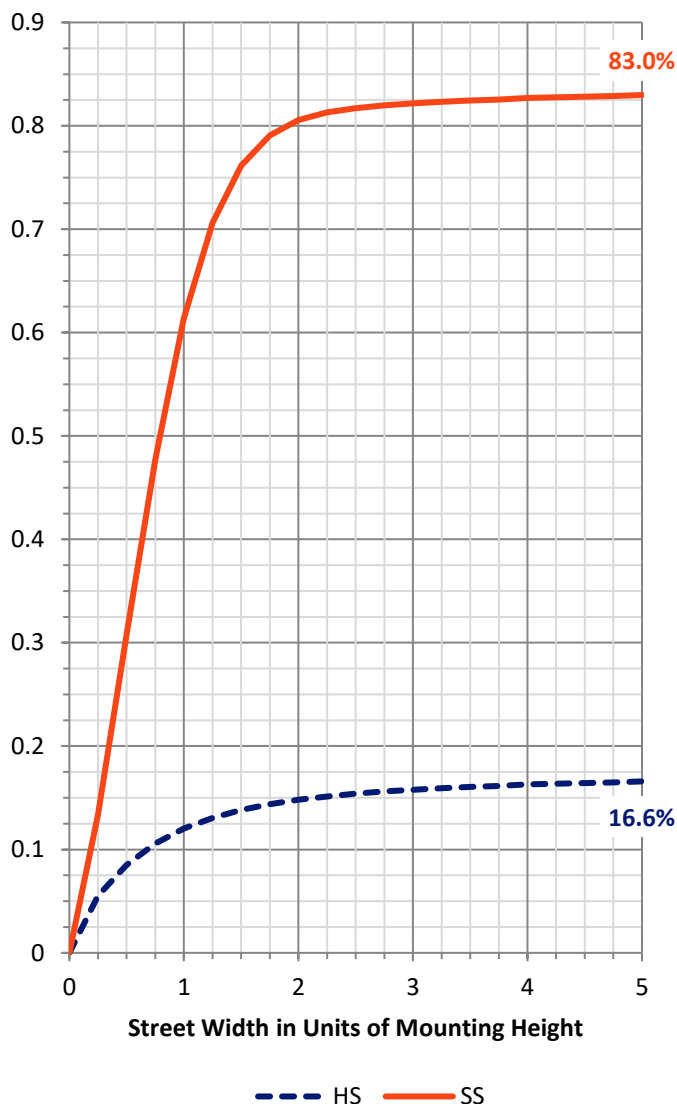
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7055.7	0.0	7055.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	34914.4	0.0	34914.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	41970.1	0.0	41970.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	473.8	1.1
10°-20°	1855.7	4.4
20°-30°	3584.7	8.5
30°-40°	5822.6	13.9
40°-50°	8009.5	19.1
50°-60°	9456.5	22.5
60°-70°	8285.5	19.7
70°-80°	3955.5	9.4
80°-90°	526.3	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°	41970.1	100.0
0°-180°	41970.1	100.0

Coefficient of Utilization

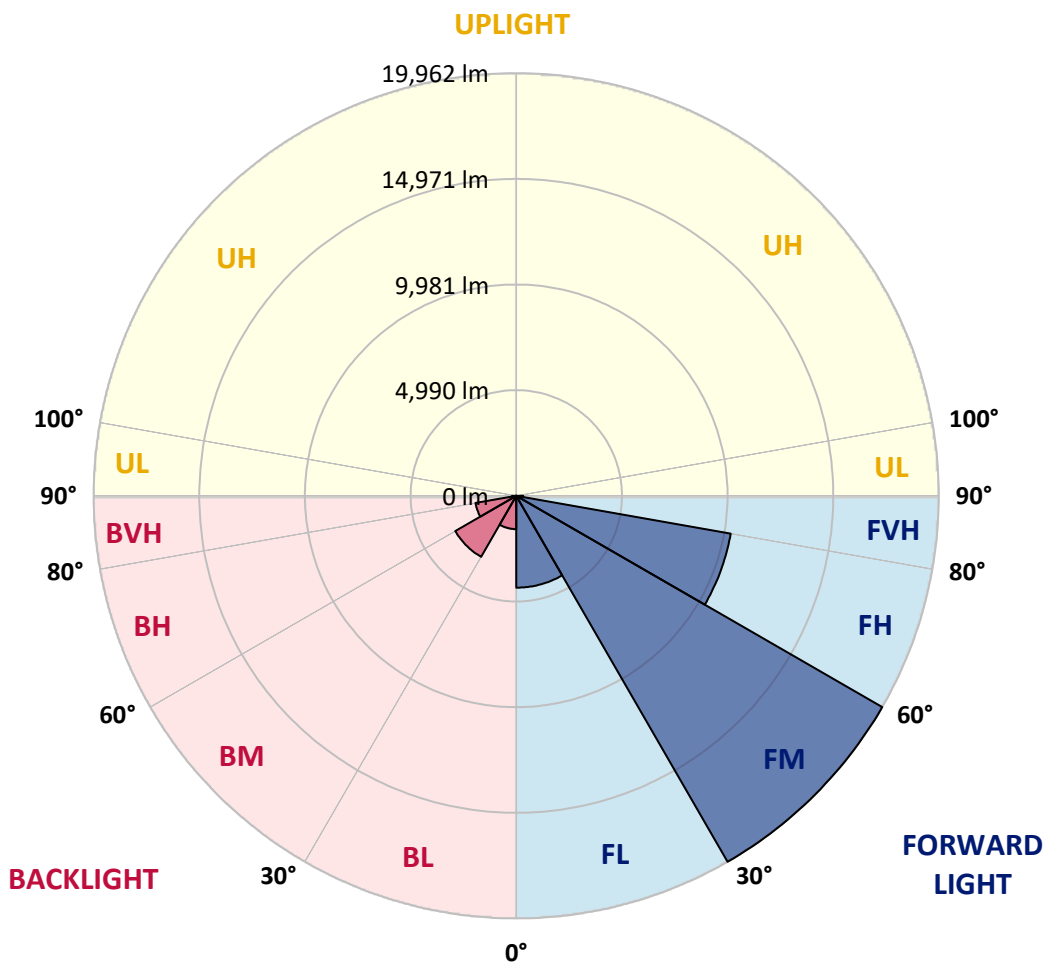


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4339.0	10.3			
FM (30°-60°)	19961.9	47.6			
FH (60°-80°)	10284.6	24.5			G4/12000
FVH (80°-90°)	328.9	0.8			G3/500
BL (0°-30°)	1575.2	3.8	B3/2500		
BM (30°-60°)	3326.7	7.9	B3/5000		
BH (60°-80°)	1956.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	197.4	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°	3899.5	3899.5	3899.5	3899.5	3899.5	3899.5	3899.5	3899.5	3899.5	3899.5	3899.5
2.5°	5181.2	5147.0	5110.6	5010.4	4903.5	4782.9	4609.8	4443.6	4222.8	4216.0	4052.1
5°	6617.7	6594.9	6433.2	6339.9	6091.8	5761.7	5481.7	5046.8	4643.9	4596.1	4277.4
7.5°	7937.9	7849.2	7787.7	7619.3	7373.4	6950.0	6408.2	5820.9	5147.0	5083.3	4555.2
10°	8932.8	8923.7	8891.8	8746.1	8561.7	8140.5	7539.6	6697.3	5784.5	5659.3	4892.1
12.5°	9677.1	9684.0	9679.5	9677.1	9545.2	9187.8	8536.7	7648.9	6428.7	6339.9	5281.4
15°	10166.6	10234.9	10262.2	10376.0	10387.4	10148.4	9588.4	8568.5	7154.9	7022.9	5700.2
17.5°	10489.9	10524.0	10651.5	10845.0	11002.0	10958.8	10460.3	9420.0	7897.0	7676.1	6135.0
20°	10799.4	10858.7	10956.5	11220.6	11498.3	11625.8	11275.2	10291.8	8632.3	8491.2	6615.4
22.5°	11443.7	11527.9	11562.1	11696.4	11933.1	12158.5	11999.1	11127.3	9438.1	9247.0	7125.3
25°	12534.1	12622.9	12527.3	12495.4	12572.8	12684.4	12650.2	11915.0	10198.5	9925.3	7607.9
27.5°	13954.6	13966.0	13779.4	13601.7	13410.6	13353.7	13248.9	12613.8	10858.7	10631.0	8092.8
30°	15479.9	15425.2	15115.6	14794.6	14471.3	14152.7	13852.2	13287.6	11593.9	11332.1	8568.5
32.5°	16895.8	16866.2	16522.5	16023.9	15477.6	15177.1	14569.2	13968.3	12381.6	12128.9	9058.0
35°	17956.6	17999.8	17622.0	17077.9	16481.5	16215.2	15448.0	14683.1	13196.6	12921.1	9590.7
37.5°	18710.1	18687.4	18352.7	17881.5	17357.9	17125.7	16474.6	15463.9	14073.0	13808.9	10173.4
40°	18978.8	18965.1	18717.0	18373.2	18040.9	17958.9	17549.1	16306.1	15076.9	14767.3	10874.6
42.5°	18808.0	18837.6	18673.7	18580.4	18518.9	18578.1	18616.8	17410.3	16171.8	15887.3	11634.9
45°	18284.4	18268.5	18245.7	18398.2	18744.3	19133.5	19673.1	18452.9	17362.4	17134.8	12654.8
47.5°	17348.8	17462.6	17519.5	17940.7	18696.4	19618.4	20888.7	19850.6	19090.3	18892.2	14209.6
50°	16039.8	16130.9	16467.8	17216.8	18343.6	19800.5	22077.0	22136.1	21972.3	21601.2	15898.7
52.5°	13995.6	14136.7	14831.0	16203.7	17619.7	19725.4	22796.3	24096.2	24312.5	24034.7	17562.8
55°	11707.7	11905.8	12638.8	14439.5	16622.6	19315.7	23292.6	25232.1	26094.9	25837.7	19165.4
57.5°	9467.7	9677.1	10430.7	12174.4	14883.4	18409.7	23618.1	26497.8	28521.6	28187.0	21159.6
60°	7095.7	7314.3	7960.7	9756.9	12406.6	16638.5	23397.3	27595.1	30946.0	30802.6	23156.0
62.5°	4577.9	4819.3	5381.6	6868.0	9536.0	14218.7	22215.9	28200.6	33044.9	32871.9	24613.0
65°	2788.7	2816.0	3125.6	4263.8	6526.6	11008.9	19513.7	27397.0	34151.2	34098.9	25056.8
67.5°	1802.9	1846.2	1987.4	2554.2	3913.2	7646.6	15602.7	24745.0	33504.8	33486.5	24139.5
70°	1523.0	1536.6	1600.3	1723.3	2274.1	4637.1	10956.5	20517.6	31048.5	31048.5	21933.5
72.5°	1361.3	1379.5	1402.3	1441.0	1623.1	2627.0	6537.9	15971.5	26807.5	26985.0	18669.1
75°	1236.1	1231.6	1245.2	1252.1	1384.1	1716.5	3380.5	11812.5	20738.4	20383.3	13519.8
77.5°	1058.6	1065.4	1058.6	1088.2	1222.5	1306.7	1716.5	7926.6	12568.2	12108.4	6786.1
80°	869.6	880.9	892.4	910.6	1044.9	992.5	1031.2	3612.7	4648.5	4550.7	2096.6
82.5°	653.4	669.3	687.5	730.7	821.8	655.6	651.1	1543.4	1677.7	1536.6	771.7
85°	264.1	311.8	471.2	514.4	516.8	359.7	400.7	644.2	685.2	669.3	302.8
87.5°	61.5	72.8	152.6	229.9	211.7	134.3	147.9	209.4	239.0	220.8	102.4
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°	3899.5	3899.5	3899.5	3899.5	3899.5	3899.5	3899.5	3899.5	3899.5	3899.5	3899.5
2.5°	3976.9	3897.3	3760.7	3656.0	3580.8	3514.9	3473.8	3448.9	3439.7	3437.4	3439.7
5°	4111.2	3970.1	3753.9	3617.3	3542.1	3498.9	3473.8	3471.6	3473.8	3476.1	3469.3
7.5°	4295.7	4093.1	3810.7	3683.3	3626.4	3594.5	3583.2	3578.5	3580.8	3578.5	3578.5
10°	4541.5	4263.8	3922.3	3790.3	3742.4	3706.0	3687.9	3676.4	3667.3	3658.3	3653.7
12.5°	4812.4	4452.8	4042.9	3915.5	3847.2	3790.3	3749.3	3719.7	3699.2	3678.7	3674.2
15°	5115.2	4653.1	4177.2	3999.7	3901.8	3817.6	3747.0	3699.2	3662.8	3633.2	3630.9
17.5°	5404.3	4842.0	4268.3	4038.4	3895.0	3776.6	3683.3	3617.3	3571.7	3533.0	3528.5
20°	5713.9	5021.9	4309.3	4013.3	3826.7	3683.3	3560.4	3480.6	3428.3	3385.1	3378.2
22.5°	6025.8	5174.3	4304.7	3933.7	3708.3	3539.9	3410.1	3325.9	3264.4	3221.2	3205.2
25°	6324.0	5297.3	4247.9	3806.2	3544.4	3369.1	3237.1	3159.7	3105.1	3052.7	3052.7
27.5°	6592.6	5370.1	4140.8	3651.5	3375.9	3191.6	3086.9	3016.3	2966.2	2932.1	2911.5
30°	6856.7	5404.3	3995.2	3455.7	3198.4	3041.3	2957.1	2916.2	2870.6	2831.9	2827.4
32.5°	7093.4	5397.5	3813.0	3264.4	3030.0	2918.4	2884.3	2852.4	2804.6	2750.0	2736.3
35°	7323.3	5352.0	3596.8	3055.0	2888.8	2845.5	2854.7	2809.1	2722.7	2654.4	2642.9
37.5°	7573.7	5270.0	3360.0	2884.3	2770.4	2811.4	2834.2	2734.0	2592.9	2485.9	2460.9
40°	7862.8	5176.6	3114.1	2713.5	2677.1	2779.5	2779.5	2595.2	2401.6	2335.6	2317.5
42.5°	8202.0	5099.2	2909.3	2570.1	2599.7	2702.1	2690.8	2410.7	2331.1	2296.9	2287.9
45°	8739.3	5071.9	2697.6	2444.9	2536.0	2611.1	2517.8	2347.0	2301.5	2274.1	2265.1
47.5°	9588.4	5103.8	2510.9	2351.6	2463.1	2520.1	2324.3	2303.8	2271.9	2233.2	2228.6
50°	10376.0	5074.2	2378.9	2299.2	2399.4	2410.7	2244.5	2251.4	2233.2	2190.0	2180.8
52.5°	11020.3	4980.9	2294.7	2271.9	2344.7	2219.6	2169.4	2194.5	2187.7	2133.0	2123.9
55°	11728.2	4924.0	2253.7	2271.9	2308.3	2053.4	2098.9	2135.3	2126.2	2087.5	2085.3
57.5°	12586.5	4935.3	2224.1	2278.7	2271.9	1969.1	2028.3	2071.6	2069.3	2057.9	2057.9
60°	13465.2	4939.9	2178.5	2276.4	2228.6	1903.1	1955.5	2017.0	2021.5	2028.3	2028.3
62.5°	13756.6	4741.8	2089.8	2235.5	2133.0	1839.4	1887.2	1971.4	1966.8	1985.1	1987.4
65°	13212.5	4193.2	1957.8	2142.1	2010.1	1793.9	1834.8	1912.2	1887.2	1935.0	1944.1
67.5°	12026.5	3469.3	1752.9	1973.7	1873.5	1746.0	1800.7	1830.3	1784.8	1878.0	1880.3
70°	10394.3	2708.9	1493.4	1734.6	1718.8	1696.0	1773.3	1727.8	1664.1	1777.9	1755.2
72.5°	8691.5	2069.3	1192.9	1418.3	1511.5	1620.9	1725.6	1595.8	1507.0	1541.1	1500.2
75°	6528.9	1529.8	958.4	1110.9	1258.9	1513.8	1682.3	1436.4	1299.8	1268.0	1258.9
77.5°	3328.2	999.4	717.1	830.9	944.7	1368.1	1623.1	1249.8	1076.7	1026.7	1003.9
80°	1188.3	621.5	505.4	573.6	637.4	1176.9	1418.3	1033.5	835.4	826.4	835.4
82.5°	550.9	400.7	339.2	375.6	377.9	785.4	1081.3	771.7	635.1	965.2	814.9
85°	236.7	200.3	191.2	186.7	173.0	350.6	607.8	414.3	646.5	289.1	266.3
87.5°	70.6	79.6	70.6	52.4	38.7	38.7	61.5	22.8	15.9	11.4	11.4
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)