

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: P652407

Luminaire Tested: **GALN-SA5B-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21059.5 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

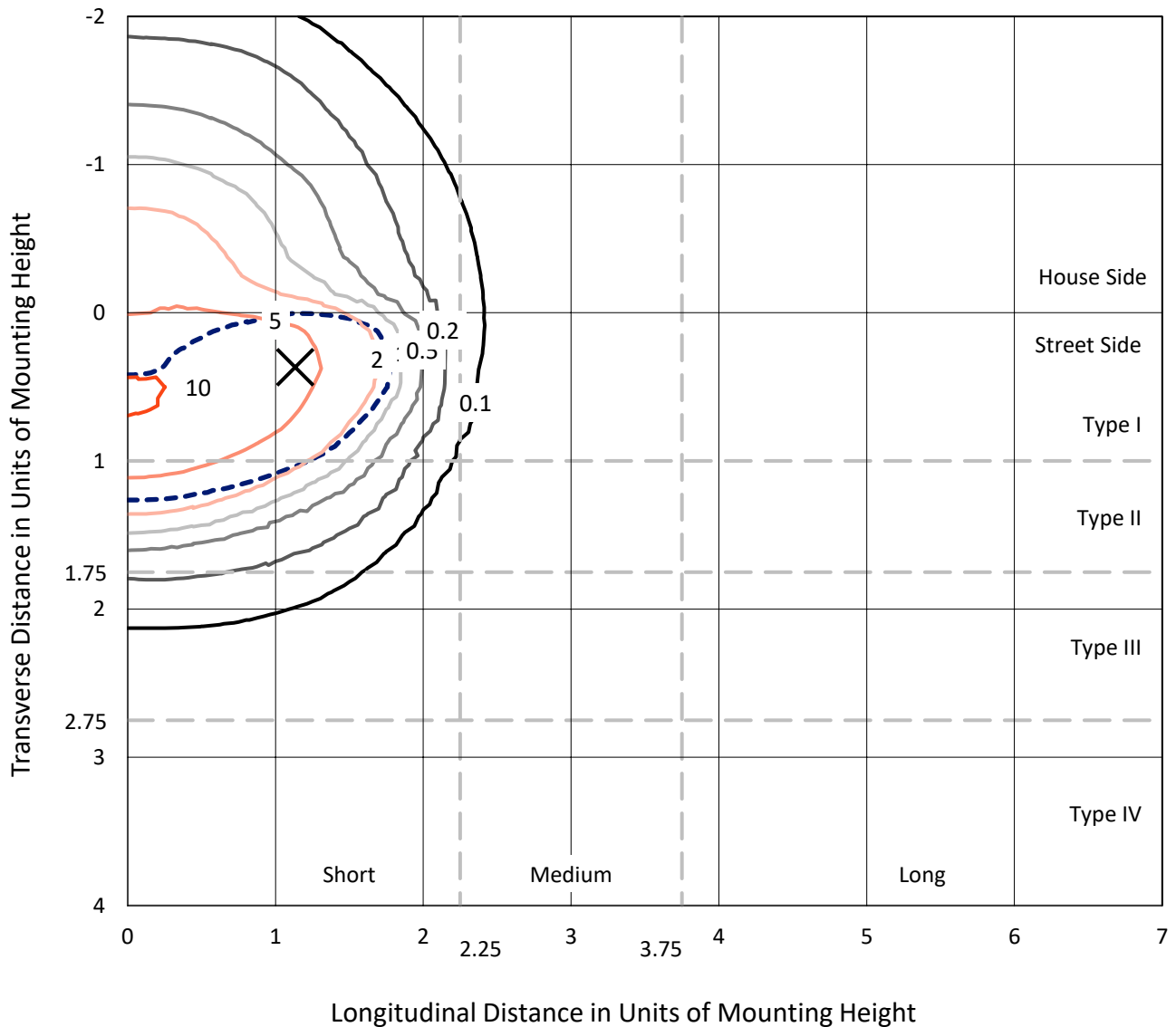
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

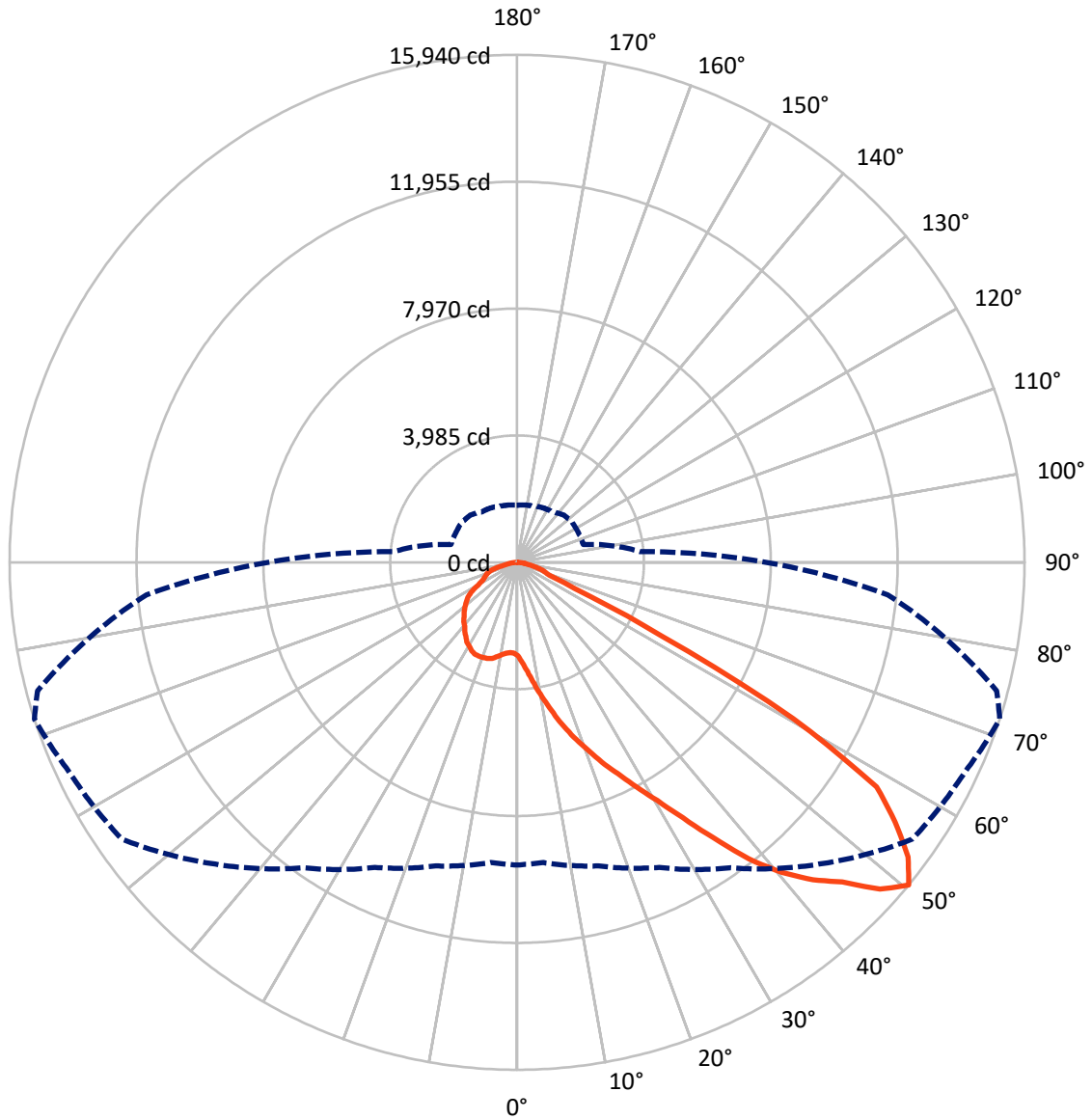
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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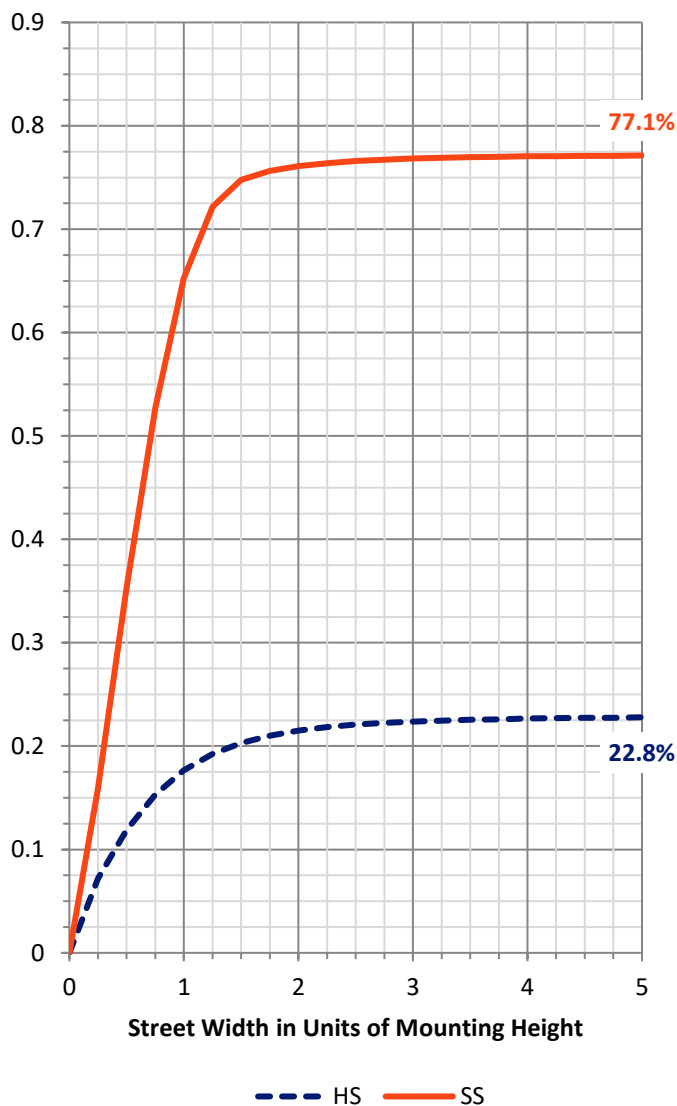
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4824.8	0.0	4824.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	16234.6	0.0	16234.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	21059.5	0.0	21059.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.8	1.6
10°-20°	1289.1	6.1
20°-30°	2499.5	11.9
30°-40°	4140.8	19.7
40°-50°	5793.9	27.5
50°-60°	4887.9	23.2
60°-70°	1489.8	7.1
70°-80°	522.7	2.5
80°-90°	90.9	0.4
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°	21059.5	100.0
0°-180°	21059.5	100.0

Coefficient of Utilization



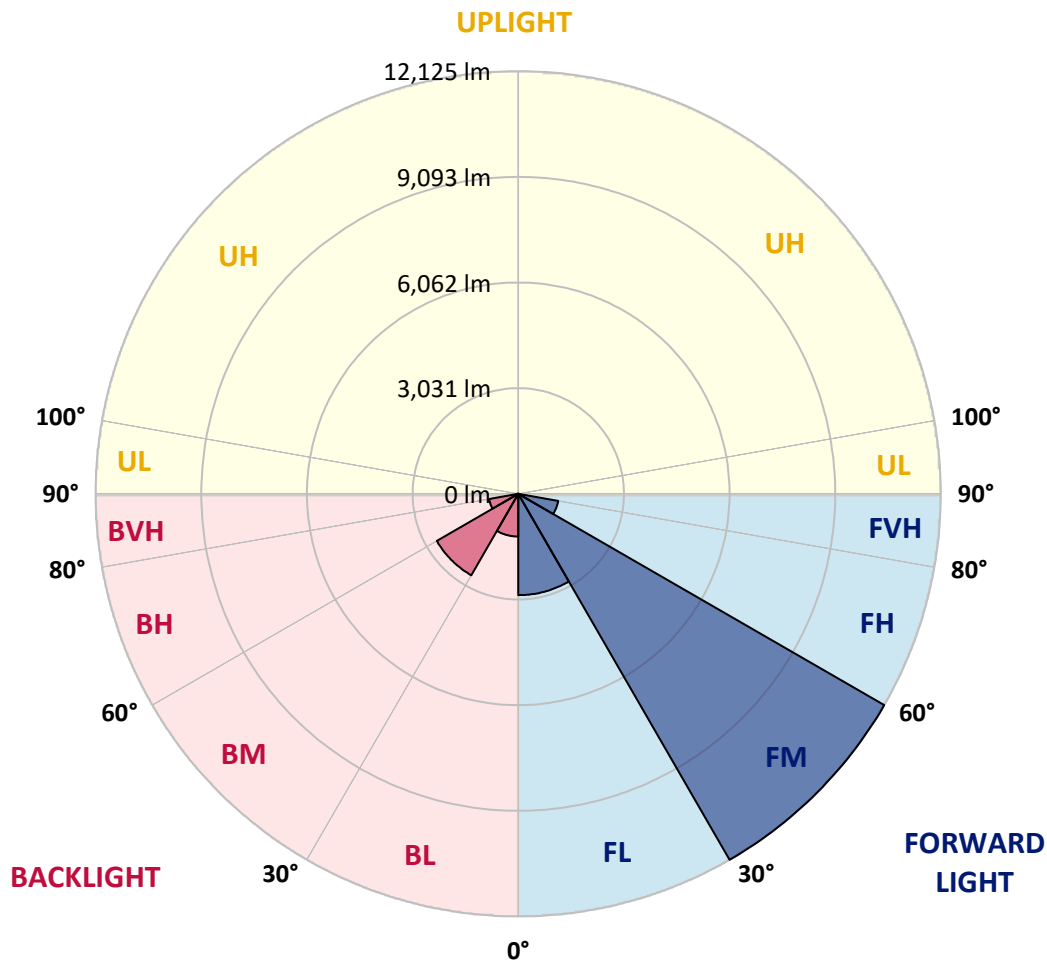
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2907.0	13.8			
FM (30°-60°)	12124.5	57.6			
FH (60°-80°)	1162.5	5.5			G1/1800
FVH (80°-90°)	40.7	0.2			G1/100
BL (0°-30°)	1226.5	5.8	B3/2500		
BM (30°-60°)	2698.1	12.8	B3/5000		
BH (60°-80°)	850.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	50.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6
2.5°	3770.8	3747.3	3676.9	3653.5	3570.1	3419.0	3366.9	3213.1	3147.9	3088.0	3017.7
5°	4768.8	4659.4	4651.6	4518.7	4325.9	4213.7	3880.2	3656.1	3450.2	3346.0	3153.2
7.5°	5404.7	5407.3	5407.3	5297.8	5144.1	4860.1	4560.3	4156.5	3846.3	3692.6	3364.3
10°	6009.3	5957.1	5928.5	5918.0	5813.8	5537.6	5217.1	4716.7	4292.0	4112.2	3523.2
12.5°	6436.6	6392.4	6457.5	6423.6	6348.0	6168.2	5865.9	5295.2	4763.6	4521.3	3778.6
15°	6639.9	6671.1	6723.3	6817.1	6783.2	6715.5	6381.9	5889.4	5271.8	4998.1	4005.3
17.5°	6952.6	6866.6	6929.2	7046.4	7140.3	7109.0	6918.7	6319.4	5774.7	5438.6	4310.2
20°	7171.5	7122.0	7153.2	7288.8	7359.1	7536.3	7437.3	6882.2	6256.8	5902.4	4669.8
22.5°	7796.9	7723.9	7622.3	7643.2	7669.2	7794.3	7817.8	7499.9	6817.1	6441.8	5011.2
25°	8568.3	8500.5	8380.6	8258.2	8182.6	8159.1	8239.9	7984.5	7353.9	6965.6	5378.6
27.5°	9417.8	9303.1	9227.5	8974.8	8771.5	8740.3	8701.2	8563.1	7989.8	7570.2	5793.0
30°	10243.9	10152.6	10051.0	9647.1	9436.0	9402.1	9209.3	9248.4	8680.3	8213.9	6262.0
32.5°	10869.3	10877.1	10645.2	10340.3	10142.2	9962.4	9892.1	10004.1	9566.3	9191.0	6785.8
35°	11374.9	11398.3	11176.8	10900.5	10686.8	10812.0	10780.7	10832.8	10624.4	10165.7	7395.6
37.5°	11867.4	11750.1	11513.0	11380.1	11268.0	11473.8	11739.7	11784.0	11823.0	11283.6	8104.4
40°	11948.2	11958.6	11820.4	11914.3	11773.6	12083.7	12701.3	12643.9	12802.9	12331.2	8873.1
42.5°	11833.5	11856.9	11911.7	12044.5	12383.3	12756.0	13673.2	13438.8	13631.6	13212.0	9621.0
45°	11645.8	11549.5	11617.2	12122.8	12709.1	13537.7	14561.9	14379.5	14316.9	13965.1	10512.2
47.5°	10749.4	10848.5	11059.5	11682.3	12563.1	13673.2	15192.5	15150.8	15338.4	15090.9	11322.7
50°	9506.4	9467.3	9873.8	10574.8	11711.0	13407.5	15158.6	15536.5	15940.4	15596.4	11684.9
52.5°	7119.4	7327.9	7677.1	8547.4	10168.3	11958.6	14418.5	15049.2	15377.5	15304.6	11393.1
55°	4500.4	4562.9	4774.0	5808.6	7267.9	9597.6	12359.8	13821.8	14408.1	14681.8	11124.7
57.5°	2186.3	2069.1	2327.0	3158.4	4198.1	6454.8	9532.5	12039.3	13313.6	13808.8	10540.9
60°	1141.4	1185.7	1287.3	1584.4	2170.7	3351.2	5941.5	8023.6	9970.2	10731.2	7989.8
62.5°	946.0	961.6	1029.3	1177.9	1443.7	1928.4	3033.3	3911.5	5084.2	5769.5	4544.8
65°	802.7	810.5	883.4	982.5	1151.8	1357.7	1561.0	1633.9	1977.9	2030.0	1615.6
67.5°	669.7	677.5	755.7	849.5	959.0	1013.7	1065.8	1060.6	1099.7	1084.0	1081.4
70°	516.0	523.8	604.6	703.6	758.3	727.0	888.6	925.1	940.7	953.8	974.6
72.5°	372.6	388.3	450.9	521.2	492.5	565.5	732.3	787.0	807.9	815.7	841.7
75°	271.1	276.3	291.8	271.1	312.7	393.5	516.0	583.7	609.8	617.6	656.7
77.5°	119.8	122.4	125.1	156.3	200.7	245.0	307.5	362.2	398.7	409.1	419.6
80°	62.6	65.2	80.8	106.8	143.3	179.8	224.1	255.4	278.8	281.4	291.8
82.5°	39.1	41.7	57.4	75.6	101.6	132.9	164.2	190.2	208.5	211.1	213.7
85°	18.2	23.5	33.9	46.9	67.8	86.0	88.6	75.6	80.8	83.4	78.2
87.5°	5.2	7.8	10.4	7.8	10.4	10.4	13.0	15.6	15.6	15.6	18.2
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°	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6	2931.6
2.5°	2978.6	2955.1	2863.9	2830.0	2741.4	2757.1	2710.1	2707.5	2697.1	2694.5	2691.9
5°	3051.6	2978.6	2869.2	2785.7	2736.2	2731.0	2697.1	2697.1	2707.5	2715.3	2697.1
7.5°	3171.4	3088.0	2903.0	2824.8	2780.5	2772.7	2749.2	2731.0	2754.4	2746.6	2725.8
10°	3309.5	3163.6	2968.1	2900.4	2827.4	2809.2	2809.2	2817.0	2777.9	2790.9	2770.1
12.5°	3463.2	3267.8	3051.6	2973.4	2887.3	2877.0	2871.8	2814.4	2835.3	2824.8	2772.7
15°	3658.7	3387.7	3158.4	3025.5	2952.5	2905.6	2837.9	2827.4	2814.4	2788.3	2764.9
17.5°	3869.8	3518.0	3207.9	3041.1	2931.6	2897.7	2845.7	2790.9	2751.8	2757.1	2738.8
20°	4049.6	3637.8	3226.2	3056.8	2916.0	2850.9	2770.1	2736.2	2694.5	2691.9	2689.3
22.5°	4263.3	3799.5	3252.1	3015.1	2869.2	2801.4	2746.6	2686.7	2658.1	2621.6	2639.8
25°	4518.7	3862.0	3257.4	2991.6	2835.3	2715.3	2686.7	2621.6	2611.1	2559.0	2569.4
27.5°	4703.7	3895.8	3215.7	2918.6	2757.1	2665.9	2613.7	2566.8	2548.6	2509.5	2499.1
30°	4951.2	3948.0	3127.1	2827.4	2678.9	2577.2	2546.0	2535.5	2483.5	2441.8	2436.5
32.5°	5232.7	3981.9	3069.7	2733.6	2598.1	2519.9	2535.5	2486.1	2420.9	2384.4	2374.0
35°	5456.8	3994.8	2926.4	2626.8	2543.4	2493.9	2475.7	2465.2	2371.4	2337.5	2311.5
37.5°	5798.2	3966.2	2806.6	2551.2	2483.5	2465.2	2449.6	2379.2	2272.4	2222.8	2186.3
40°	6196.9	3958.4	2652.9	2444.4	2426.1	2447.0	2400.0	2290.6	2142.0	2087.4	2061.3
42.5°	6580.0	4013.1	2556.4	2387.0	2363.5	2371.4	2306.3	2142.0	2069.1	2037.8	1996.1
45°	7221.0	4127.8	2397.4	2298.5	2288.0	2282.8	2204.6	2032.6	1990.9	1951.8	1944.1
47.5°	7799.5	4052.2	2295.8	2207.2	2217.6	2189.0	2022.2	1967.4	1920.6	1881.5	1868.4
50°	7833.4	3872.4	2152.5	2136.8	2139.4	2090.0	1931.0	1894.5	1834.6	1808.5	1790.2
52.5°	7656.2	3578.0	2019.6	2024.8	2032.6	1951.8	1818.9	1792.8	1743.4	1706.9	1696.5
55°	7158.4	3119.3	1889.3	1910.2	1931.0	1777.2	1735.6	1670.4	1631.3	1579.1	1581.8
57.5°	6306.3	2512.1	1706.9	1740.8	1785.0	1615.6	1584.4	1503.6	1446.3	1404.6	1399.3
60°	4226.8	1787.6	1433.2	1446.3	1545.3	1477.6	1474.9	1394.1	1316.0	1279.5	1258.6
62.5°	2493.9	1365.5	1237.8	1224.7	1222.1	1261.2	1326.4	1297.7	1196.2	1125.8	1146.6
65°	1305.6	1180.5	1151.8	1107.5	1081.4	1071.0	1120.5	1133.6	1065.8	990.3	985.1
67.5°	1097.1	1097.1	1073.6	1058.0	1021.5	977.2	946.0	904.2	893.8	873.0	846.9
70°	998.1	1024.1	1016.3	979.8	948.6	899.0	818.3	750.5	685.3	661.9	677.5
72.5°	870.4	896.4	896.4	878.2	836.5	760.9	682.7	604.6	549.8	508.1	502.9
75°	669.7	682.7	714.0	693.2	638.5	591.6	510.7	430.0	377.9	338.8	330.9
77.5°	427.4	448.3	448.3	445.6	406.5	362.2	310.1	252.8	213.7	185.0	177.2
80°	284.0	297.0	307.5	297.0	271.1	237.2	198.1	158.9	130.3	106.8	101.6
82.5°	208.5	224.1	231.9	221.5	195.4	169.4	140.7	112.0	83.4	65.2	60.0
85°	80.8	83.4	93.8	112.0	109.4	106.8	86.0	62.6	46.9	33.9	31.3
87.5°	20.9	18.2	20.9	20.9	18.2	15.6	15.6	15.6	15.6	7.8	10.4
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)