

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: P529360

Luminaire Tested: **GALN-SA4C-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529360
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-SA4C-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 22257 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

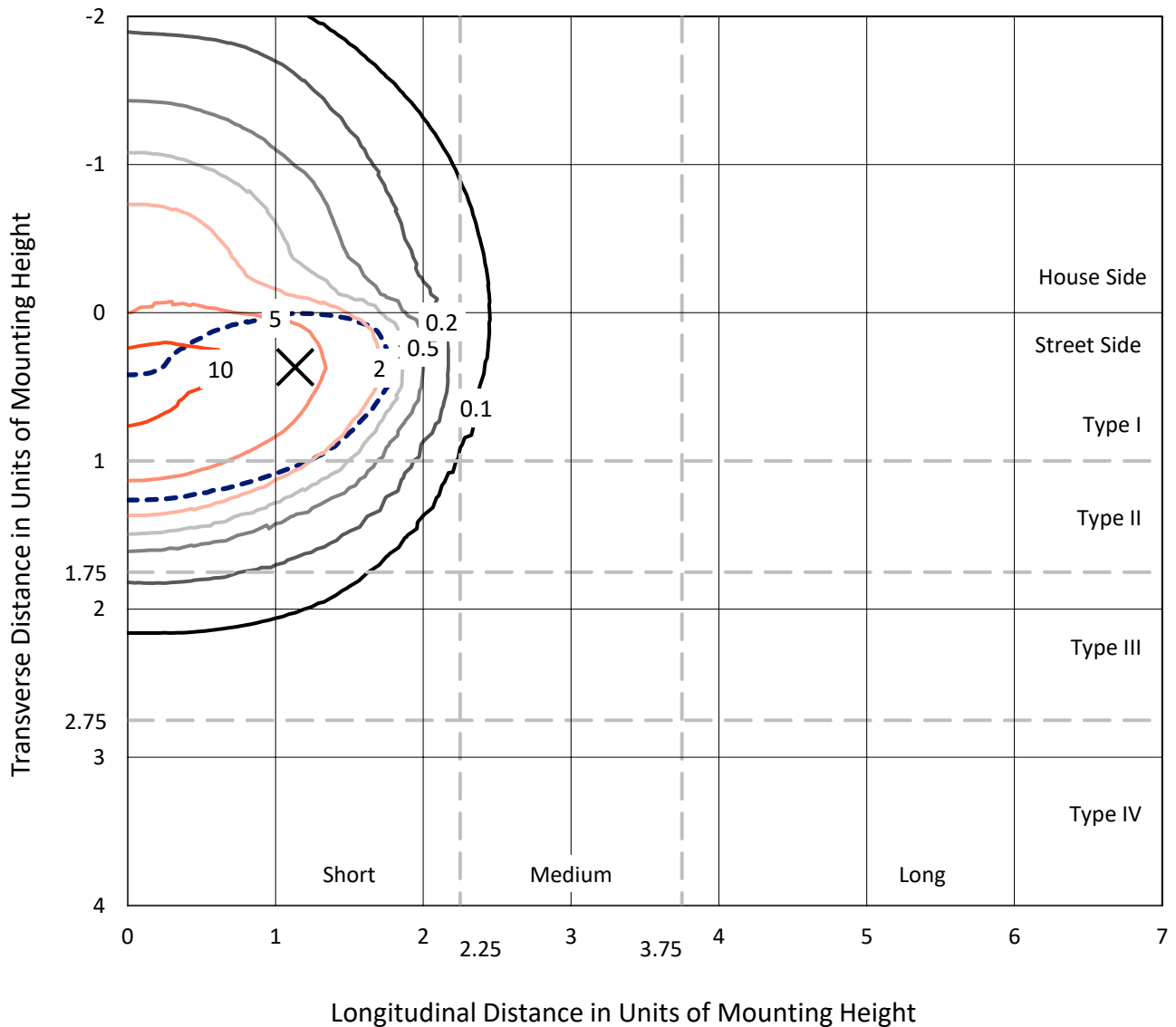
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

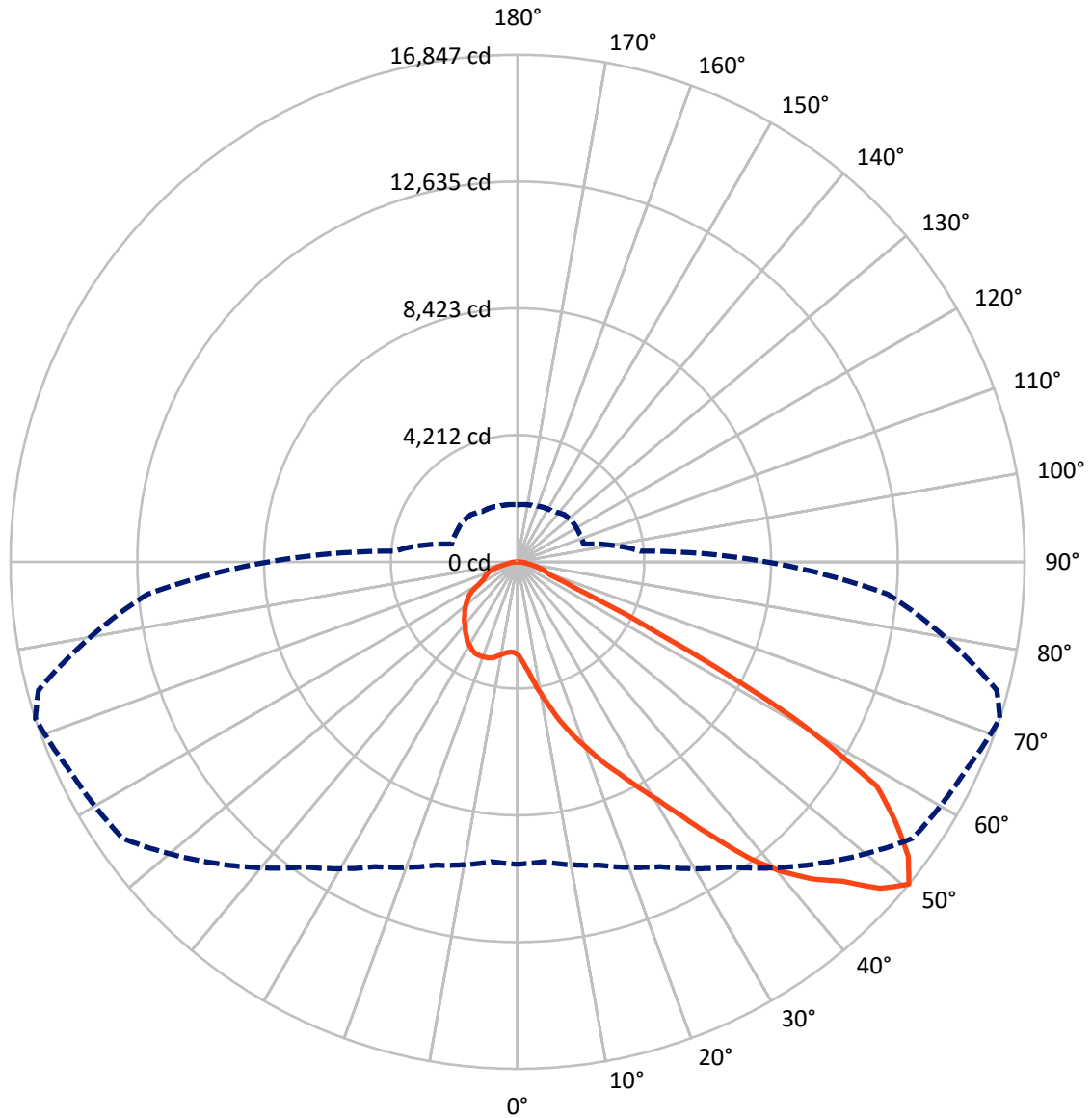
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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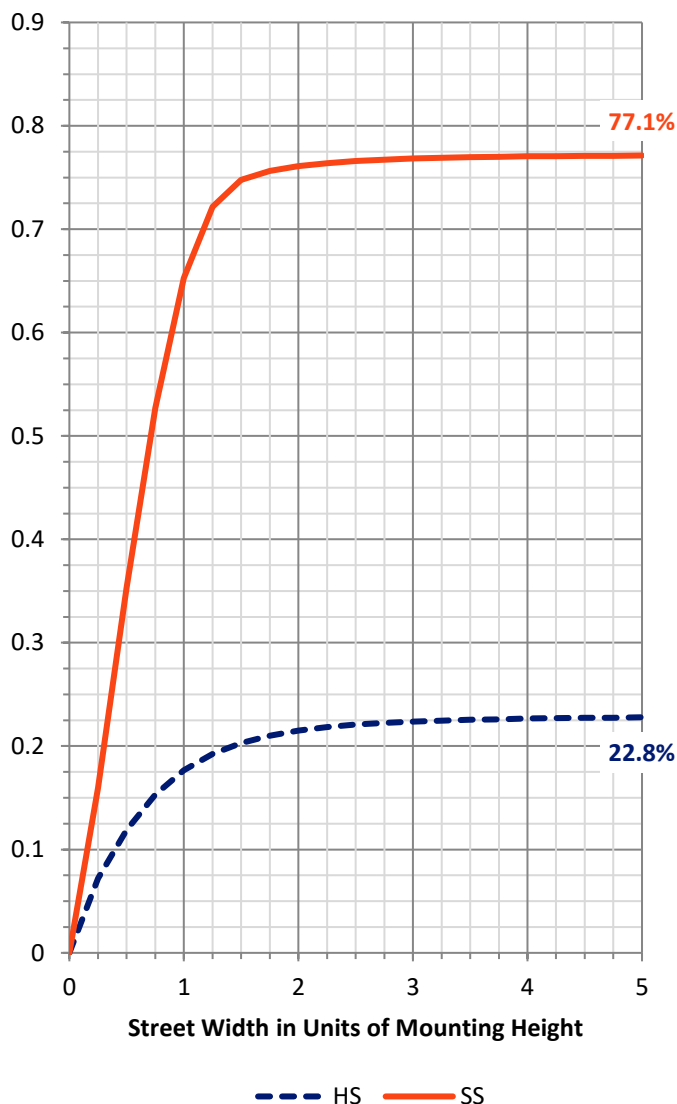
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5099.2	0.0	5099.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17157.8	0.0	17157.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	22257.0	0.0	22257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.4	1.6
10°-20°	1362.4	6.1
20°-30°	2641.6	11.9
30°-40°	4376.3	19.7
40°-50°	6123.4	27.5
50°-60°	5165.9	23.2
60°-70°	1574.5	7.1
70°-80°	552.4	2.5
80°-90°	96.0	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°	22257.0	100.0
0°-180°	22257.0	100.0

Coefficient of Utilization



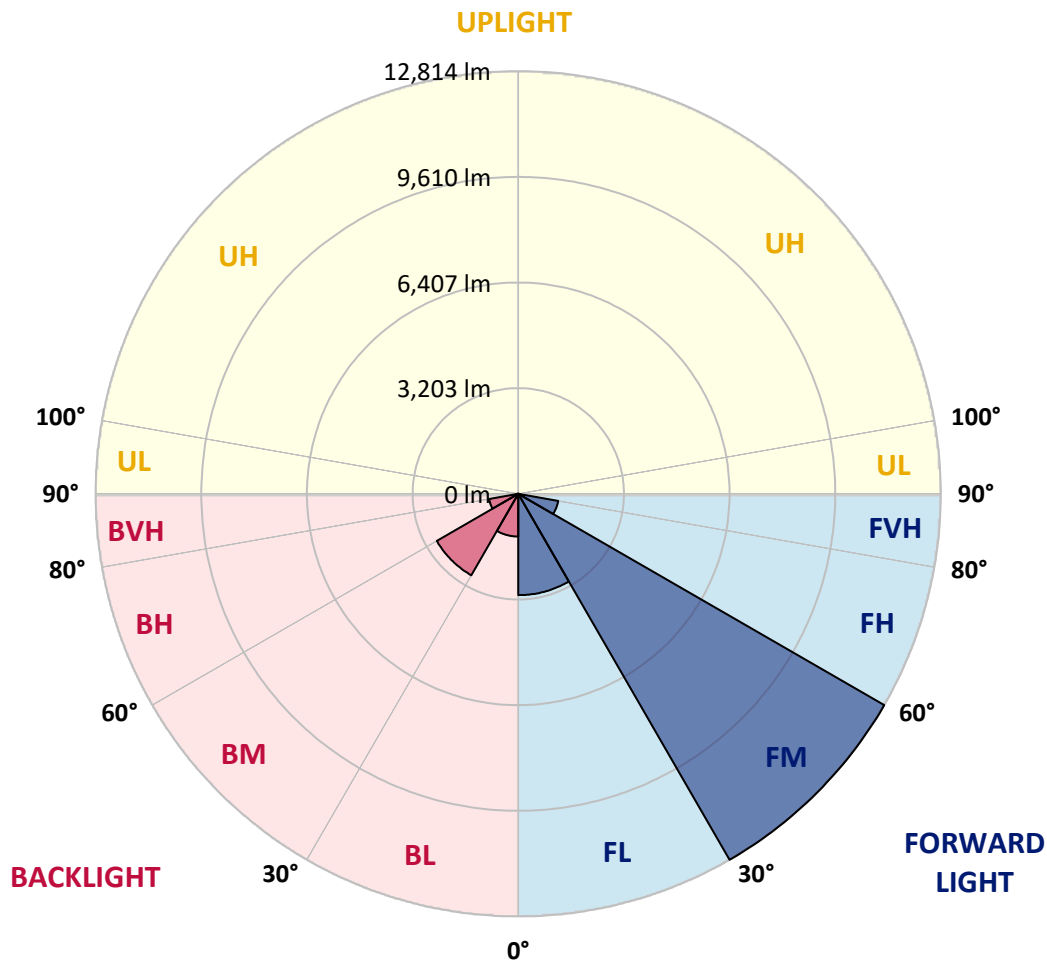
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3072.3	13.8			
FM (30°-60°)	12814.0	57.6			
FH (60°-80°)	1228.6	5.5			G1/1800
FVH (80°-90°)	43.0	0.2			G1/100
BL (0°-30°)	1296.2	5.8	B3/2500		
BM (30°-60°)	2851.6	12.8	B3/5000		
BH (60°-80°)	898.4	4.0	B2/1000		G2/1000
BVH (80°-90°)	53.0	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°	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4
2.5°	3985.2	3960.4	3886.0	3861.3	3773.1	3613.4	3558.3	3395.8	3327.0	3263.6	3189.2
5°	5040.0	4924.3	4916.1	4775.6	4571.8	4453.4	4100.9	3864.0	3646.4	3536.3	3332.5
7.5°	5712.0	5714.8	5714.8	5599.1	5436.6	5136.4	4819.7	4392.8	4065.1	3902.6	3555.5
10°	6351.0	6295.9	6265.6	6254.6	6144.4	5852.5	5513.7	4984.9	4536.0	4346.0	3723.5
12.5°	6802.6	6755.8	6824.7	6788.9	6709.0	6519.0	6199.5	5596.3	5034.5	4778.4	3993.4
15°	7017.5	7050.5	7105.6	7204.7	7168.9	7097.3	6744.8	6224.3	5571.5	5282.4	4233.1
17.5°	7347.9	7257.1	7323.2	7447.1	7546.2	7513.2	7312.1	6678.7	6103.1	5747.8	4555.3
20°	7579.3	7527.0	7560.0	7703.2	7777.6	7964.9	7860.2	7273.6	6612.6	6238.0	4935.3
22.5°	8240.3	8163.2	8055.7	8077.8	8105.3	8237.5	8262.3	7926.3	7204.7	6808.1	5296.1
25°	9055.5	8983.9	8857.2	8727.7	8647.9	8623.1	8708.5	8438.6	7772.1	7361.7	5684.5
27.5°	9953.3	9832.1	9752.3	9485.1	9270.3	9237.3	9195.9	9050.0	8444.1	8000.7	6122.4
30°	10826.4	10730.0	10622.6	10195.7	9972.6	9936.8	9733.0	9774.3	9173.9	8680.9	6618.1
32.5°	11487.4	11495.6	11250.5	10928.3	10719.0	10528.9	10454.6	10573.0	10110.3	9713.7	7171.7
35°	12021.7	12046.4	11812.3	11520.4	11294.6	11426.8	11393.7	11448.8	11228.5	10743.8	7816.1
37.5°	12542.2	12418.2	12167.6	12027.2	11908.7	12126.3	12407.2	12454.0	12495.4	11925.3	8565.3
40°	12627.6	12638.6	12492.6	12591.8	12443.0	12770.8	13423.5	13362.9	13530.9	13032.4	9377.7
42.5°	12506.4	12531.2	12589.0	12729.5	13087.5	13481.3	14450.8	14202.9	14406.7	13963.3	10168.1
45°	12308.1	12206.2	12277.8	12812.1	13431.8	14307.6	15389.9	15197.1	15131.0	14759.2	11110.0
47.5°	11360.7	11465.3	11688.4	12346.6	13277.5	14450.8	16056.4	16012.3	16210.6	15949.0	11966.6
50°	10047.0	10005.7	10435.3	11176.1	12376.9	14169.9	16020.6	16420.0	16846.8	16483.3	12349.4
52.5°	7524.2	7744.5	8113.6	9033.5	10746.5	12638.6	15238.4	15904.9	16252.0	16174.8	12040.9
55°	4756.3	4822.4	5045.5	6138.9	7681.2	10143.4	13062.7	14607.8	15227.4	15516.6	11757.3
57.5°	2310.7	2186.8	2459.4	3338.0	4436.9	6821.9	10074.5	12723.9	14070.7	14594.0	11140.3
60°	1206.3	1253.1	1360.5	1674.5	2294.2	3541.8	6279.4	8479.9	10537.2	11341.4	8444.1
62.5°	999.7	1016.3	1087.9	1244.9	1525.8	2038.0	3205.8	4133.9	5373.3	6097.6	4803.2
65°	848.3	856.5	933.6	1038.3	1217.3	1434.9	1649.7	1726.8	2090.4	2145.4	1707.5
67.5°	707.8	716.1	798.7	897.8	1013.5	1071.3	1126.4	1120.9	1162.2	1145.7	1143.0
70°	545.3	553.6	639.0	743.6	801.4	768.4	939.1	977.7	994.2	1008.0	1030.0
72.5°	393.8	410.4	476.5	550.8	520.5	597.6	773.9	831.7	853.8	862.0	889.6
75°	286.4	291.9	308.5	286.4	330.5	415.9	545.3	616.9	644.5	652.7	694.0
77.5°	126.7	129.4	132.2	165.2	212.1	258.9	325.0	382.8	421.4	432.4	443.4
80°	66.1	68.9	85.4	112.9	151.5	190.0	236.9	269.9	294.7	297.4	308.5
82.5°	41.3	44.1	60.6	79.9	107.4	140.5	173.5	201.0	220.3	223.1	225.8
85°	19.3	24.8	35.8	49.6	71.6	90.9	93.6	79.9	85.4	88.1	82.6
87.5°	5.5	8.3	11.0	8.3	11.0	11.0	13.8	16.5	16.5	16.5	19.3
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°	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4	3098.4
2.5°	3147.9	3123.2	3026.8	2991.0	2897.3	2913.8	2864.3	2861.5	2850.5	2847.7	2845.0
5°	3225.1	3147.9	3032.3	2944.1	2891.8	2886.3	2850.5	2850.5	2861.5	2869.8	2850.5
7.5°	3351.7	3263.6	3068.1	2985.4	2938.6	2930.4	2905.6	2886.3	2911.1	2902.8	2880.8
10°	3497.7	3343.5	3136.9	3065.3	2988.2	2968.9	2968.9	2977.2	2935.9	2949.6	2927.6
12.5°	3660.2	3453.6	3225.1	3142.4	3051.5	3040.5	3035.0	2974.4	2996.5	2985.4	2930.4
15°	3866.8	3580.3	3338.0	3197.5	3120.4	3070.8	2999.2	2988.2	2974.4	2946.9	2922.1
17.5°	4089.8	3718.0	3390.3	3214.0	3098.4	3062.6	3007.5	2949.6	2908.3	2913.8	2894.6
20°	4279.9	3844.7	3409.6	3230.6	3081.8	3013.0	2927.6	2891.8	2847.7	2845.0	2842.2
22.5°	4505.7	4015.5	3437.1	3186.5	3032.3	2960.7	2902.8	2839.5	2809.2	2770.6	2789.9
25°	4775.6	4081.6	3442.6	3161.7	2996.5	2869.8	2839.5	2770.6	2759.6	2704.5	2715.5
27.5°	4971.2	4117.4	3398.6	3084.6	2913.8	2817.4	2762.4	2712.8	2693.5	2652.2	2641.2
30°	5232.8	4172.5	3304.9	2988.2	2831.2	2723.8	2690.8	2679.7	2624.7	2580.6	2575.1
32.5°	5530.2	4208.3	3244.3	2889.1	2745.8	2663.2	2679.7	2627.4	2558.6	2520.0	2509.0
35°	5767.1	4222.0	3092.9	2776.1	2688.0	2635.7	2616.4	2605.4	2506.2	2470.4	2442.9
37.5°	6127.9	4191.7	2966.2	2696.3	2624.7	2605.4	2588.9	2514.5	2401.6	2349.2	2310.7
40°	6549.3	4183.5	2803.7	2583.3	2564.1	2586.1	2536.5	2420.9	2263.9	2206.0	2178.5
42.5°	6954.1	4241.3	2701.8	2522.8	2498.0	2506.2	2437.4	2263.9	2186.8	2153.7	2109.6
45°	7631.6	4362.5	2533.8	2429.1	2418.1	2412.6	2330.0	2148.2	2104.1	2062.8	2054.6
47.5°	8243.0	4282.6	2426.4	2332.7	2343.7	2313.4	2137.2	2079.3	2029.8	1988.5	1974.7
50°	8278.8	4092.6	2274.9	2258.4	2261.1	2208.8	2040.8	2002.2	1938.9	1911.3	1892.1
52.5°	8091.6	3781.4	2134.4	2139.9	2148.2	2062.8	1922.4	1894.8	1842.5	1803.9	1792.9
55°	7565.5	3296.7	1996.7	2018.8	2040.8	1878.3	1834.2	1765.4	1724.1	1669.0	1671.7
57.5°	6664.9	2655.0	1803.9	1839.7	1886.6	1707.5	1674.5	1589.1	1528.5	1484.5	1479.0
60°	4467.2	1889.3	1514.8	1528.5	1633.2	1561.6	1558.8	1473.4	1390.8	1352.3	1330.2
62.5°	2635.7	1443.1	1308.2	1294.4	1291.7	1333.0	1401.8	1371.5	1264.1	1189.8	1211.8
65°	1379.8	1247.6	1217.3	1170.5	1143.0	1131.9	1184.3	1198.0	1126.4	1046.6	1041.1
67.5°	1159.5	1159.5	1134.7	1118.2	1079.6	1032.8	999.7	955.7	944.7	922.6	895.1
70°	1054.8	1082.4	1074.1	1035.5	1002.5	950.2	864.8	793.2	724.3	699.5	716.1
72.5°	919.9	947.4	947.4	928.1	884.1	804.2	721.6	639.0	581.1	537.0	531.5
75°	707.8	721.6	754.6	732.6	674.8	625.2	539.8	454.4	399.3	358.0	349.8
77.5°	451.7	473.7	473.7	471.0	429.6	382.8	327.7	267.1	225.8	195.5	187.3
80°	300.2	314.0	325.0	314.0	286.4	250.6	209.3	168.0	137.7	112.9	107.4
82.5°	220.3	236.9	245.1	234.1	206.6	179.0	148.7	118.4	88.1	68.9	63.3
85°	85.4	88.1	99.1	118.4	115.7	112.9	90.9	66.1	49.6	35.8	33.0
87.5°	22.0	19.3	22.0	22.0	19.3	16.5	16.5	16.5	16.5	8.3	11.0
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)