

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: P648460

Luminaire Tested: **GALN-SA5B-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648460
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22263 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

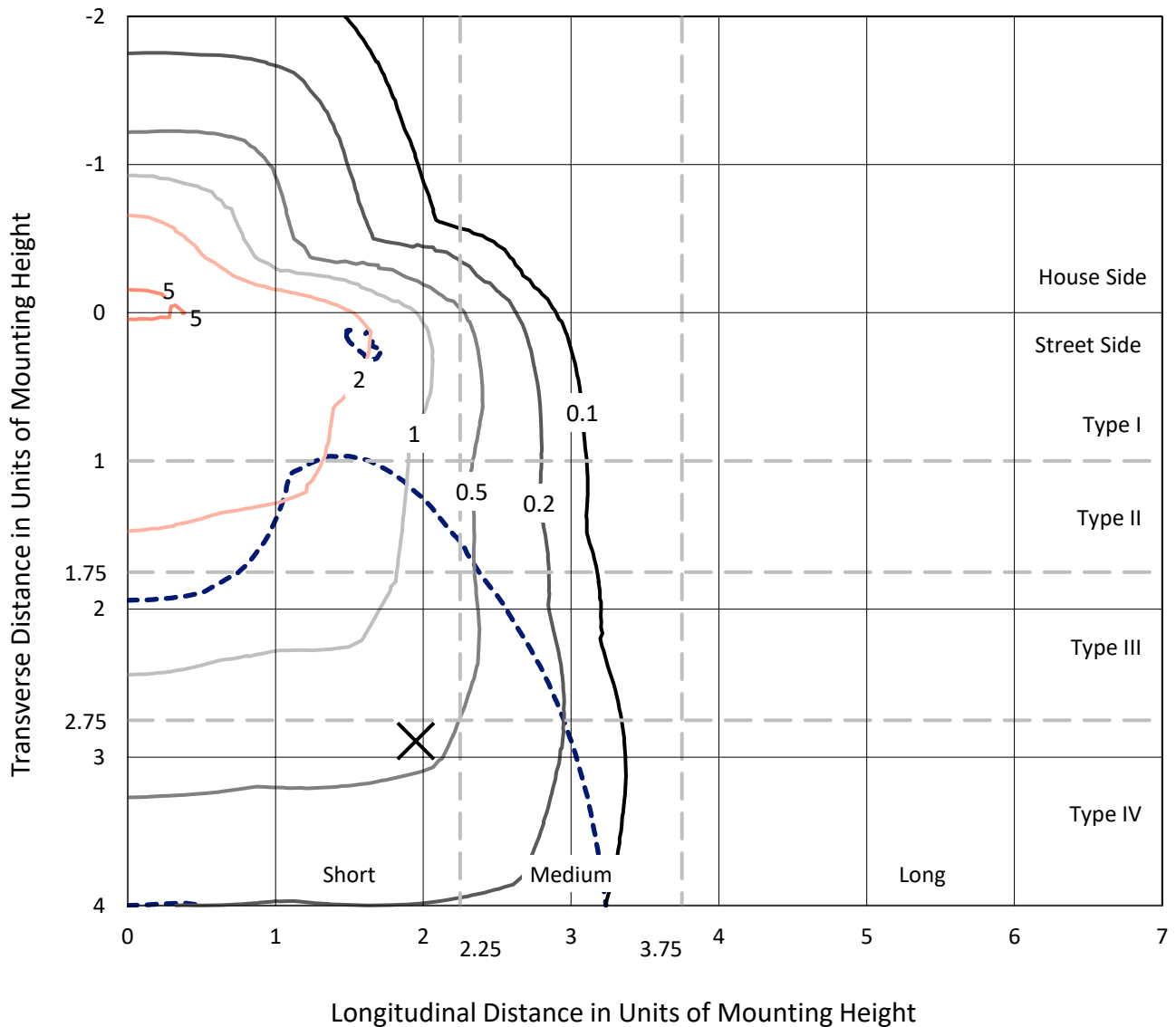
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

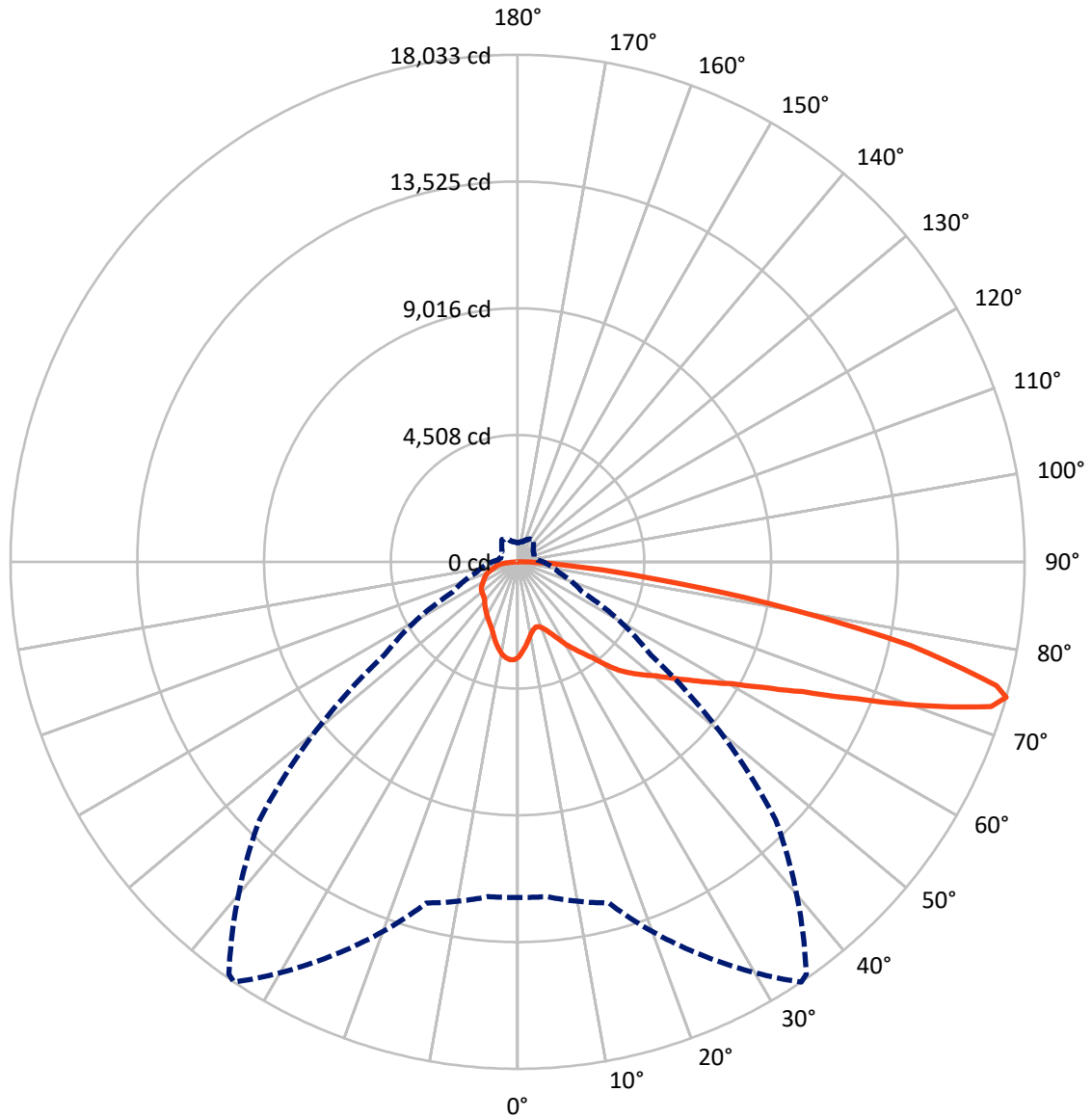
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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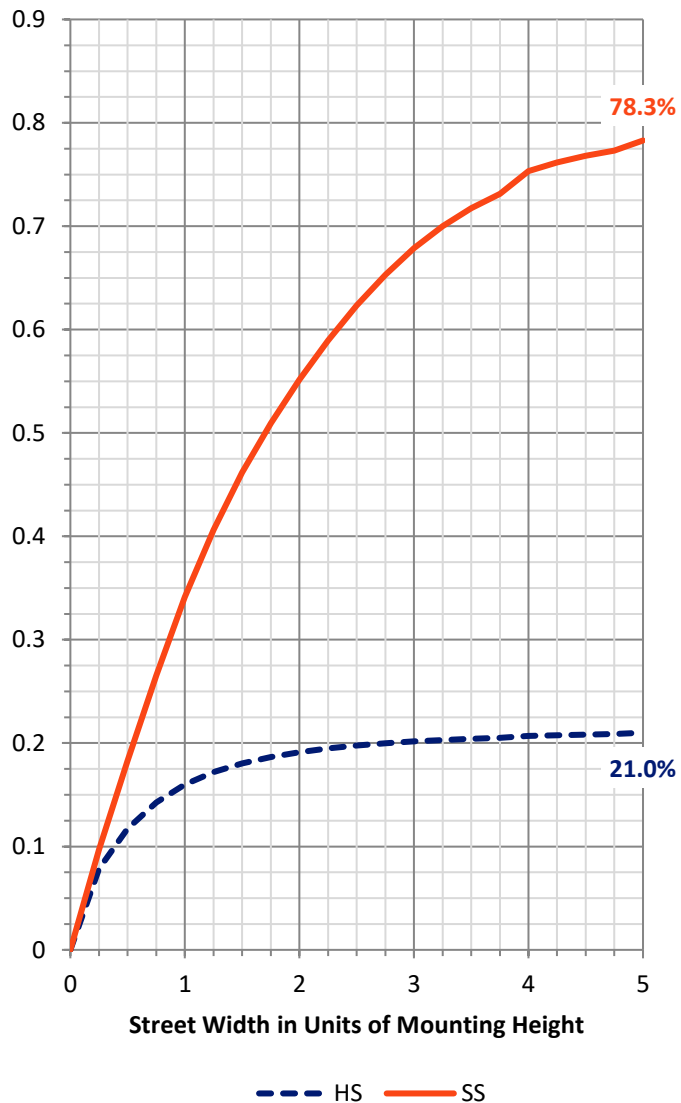
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4737.7	0.0	4737.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	17525.3	0.0	17525.3
	% Fixture	78.7	0.0	78.7
Total	Lumens	22263.0	0.0	22263.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	1.4
10°-20°	846.2	3.8
20°-30°	1395.2	6.3
30°-40°	2089.9	9.4
40°-50°	3038.2	13.6
50°-60°	4243.6	19.1
60°-70°	5312.7	23.9
70°-80°	4393.2	19.7
80°-90°	634.8	2.9
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°	22263.0	100.0
0°-180°	22263.0	100.0

Coefficient of Utilization



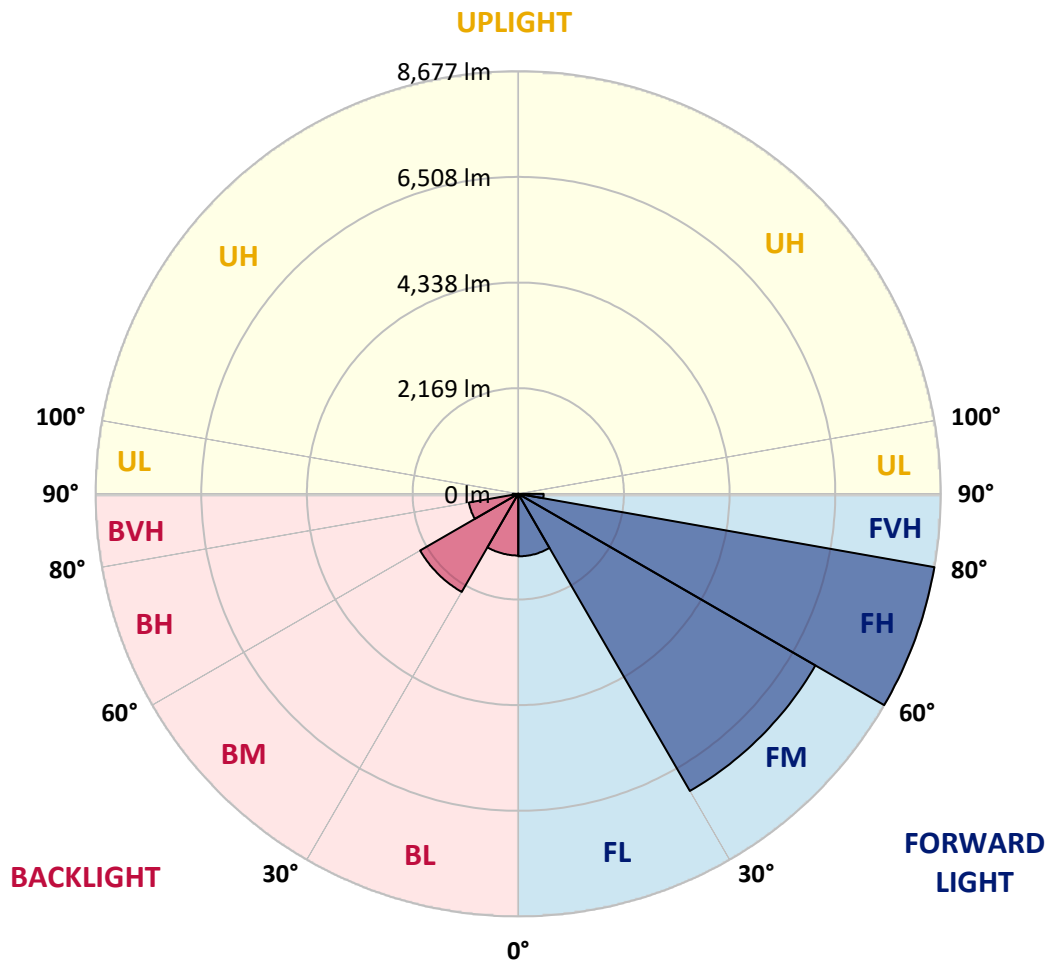
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1283.4	5.8			
FM (30°-60°)	7044.9	31.6			
FH (60°-80°)	8677.0	39.0			G4/12000
FVH (80°-90°)	520.0	2.3			G4/750
BL (0°-30°)	1267.3	5.7	B3/2500		
BM (30°-60°)	2326.7	10.5	B2/2500		
BH (60°-80°)	1029.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	114.7	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3399.2	3399.2	3399.2	3399.2	3399.2	3399.2	3399.2	3399.2	3399.2	3399.2	3399.2
2.5°	3141.3	3157.4	3166.1	3196.8	3204.3	3214.1	3240.1	3274.6	3319.0	3358.4	3393.0
5°	2879.9	2904.5	2919.3	2946.5	2999.5	3004.4	3073.5	3152.4	3242.5	3326.3	3395.4
7.5°	2632.0	2659.1	2671.4	2720.8	2791.1	2802.2	2903.3	3027.9	3178.4	3305.4	3411.5
10°	2445.8	2459.3	2486.4	2523.5	2607.3	2614.8	2746.7	2913.2	3108.0	3295.5	3438.6
12.5°	2344.6	2352.0	2358.2	2397.6	2480.3	2491.3	2629.5	2818.3	3052.5	3302.9	3483.0
15°	2359.4	2361.8	2334.7	2342.1	2408.7	2424.8	2561.7	2755.3	3018.0	3321.4	3549.6
17.5°	2484.0	2475.4	2408.7	2374.2	2421.1	2428.5	2548.1	2730.6	3002.0	3355.9	3618.6
20°	2680.1	2667.8	2553.0	2476.6	2503.7	2509.9	2592.5	2749.1	3018.0	3412.7	3726.0
22.5°	2924.3	2919.3	2745.4	2653.0	2651.7	2651.7	2694.9	2815.7	3066.1	3490.4	3838.2
25°	3265.9	3240.1	3013.1	2893.4	2860.1	2857.7	2852.8	2925.5	3127.8	3573.1	3971.4
27.5°	3616.2	3571.8	3369.6	3185.8	3114.2	3105.6	3073.5	3080.9	3206.7	3666.8	4123.1
30°	3930.7	3902.3	3712.4	3508.9	3423.8	3404.1	3315.2	3274.6	3338.7	3835.8	4364.8
32.5°	4171.2	4154.0	4005.9	3821.0	3695.1	3691.5	3561.9	3528.6	3544.6	4040.4	4641.1
35°	4366.1	4372.3	4297.0	4136.7	3992.4	3971.4	3885.1	3843.1	3796.3	4336.5	4988.9
37.5°	4632.5	4646.0	4641.1	4503.0	4326.6	4331.6	4311.8	4242.8	4118.2	4667.0	5375.0
40°	4926.0	4935.9	4934.6	4881.6	4789.1	4794.1	4786.6	4707.7	4521.5	5087.6	5804.1
42.5°	5331.8	5284.9	5162.8	5215.9	5270.1	5293.5	5344.1	5268.9	5013.5	5536.5	6207.5
45°	5785.7	5696.9	5420.6	5445.3	5646.3	5690.7	5969.4	5865.8	5547.6	6052.0	6682.3
47.5°	6071.8	5984.2	5751.1	5746.2	6012.6	6055.8	6549.1	6510.9	6033.6	6608.3	7262.0
50°	6327.1	6314.7	6052.0	6115.0	6375.2	6439.3	7180.6	7144.8	6518.3	7264.4	7893.5
52.5°	6705.8	6605.9	6396.2	6525.7	6869.8	6953.7	7807.1	7702.3	6963.5	7844.2	8506.4
55°	6875.9	6852.5	6840.2	6952.4	7424.8	7485.2	8416.4	8175.9	7343.4	8335.0	8972.6
57.5°	7331.1	7287.9	7410.0	7486.5	8078.4	8171.0	9052.8	8670.5	7676.4	8724.7	9199.6
60°	7920.6	7897.2	8009.4	8147.5	8808.6	8949.2	9778.0	9092.3	7944.0	8920.9	9075.0
62.5°	8801.2	8798.7	8777.8	9073.8	9843.4	9972.9	10610.6	9503.0	7986.0	8774.1	8431.2
65°	10064.2	10019.7	9837.2	10160.4	11131.0	11282.7	11477.6	9732.4	7733.1	8020.5	7099.2
67.5°	11385.1	11382.6	11234.6	11653.9	12979.8	13136.5	12561.7	9681.9	7031.3	6497.3	5042.0
70°	12480.3	12427.3	12616.0	13733.4	15341.7	15523.0	13510.2	9086.1	5600.6	4290.8	2995.8
72.5°	12743.0	12745.5	13137.7	15336.8	17609.8	17638.2	13851.8	7364.3	3748.1	2366.8	1498.5
74°	11933.9	11954.9	12562.9	15417.0	18032.9	17904.6	12978.6	5788.2	2534.6	1545.4	1080.4
75°	10893.0	10761.0	11640.4	14882.9	17593.8	17455.7	11956.2	4644.8	1933.9	1234.6	946.0
77.5°	5823.9	5958.3	7315.0	11106.4	14293.4	14134.2	8106.9	2227.4	1044.7	859.7	680.8
80°	2073.3	2286.7	3214.1	5811.6	9163.8	9213.2	3869.0	1021.2	735.1	633.9	481.0
82.5°	846.1	869.5	1380.1	2579.0	4653.4	4697.8	1579.9	606.8	525.4	436.6	287.4
85°	330.5	340.4	610.5	1159.4	1985.7	2115.2	546.4	320.6	323.1	250.4	146.7
87.5°	111.0	125.8	250.4	386.0	674.6	661.1	159.1	95.0	116.0	108.5	45.6
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°	3399.2	3399.2	3399.2	3399.2	3399.2	3399.2	3399.2	3399.2	3399.2	3399.2	3399.2
2.5°	3410.2	3433.7	3449.7	3467.0	3483.0	3488.0	3484.2	3495.3	3496.6	3497.8	3499.0
5°	3429.9	3462.0	3492.9	3510.1	3517.5	3511.4	3490.4	3479.3	3469.4	3462.0	3464.5
7.5°	3457.1	3502.8	3531.1	3538.5	3518.7	3490.4	3438.6	3397.9	3372.0	3354.8	3353.5
10°	3499.0	3543.5	3566.9	3545.9	3491.6	3422.6	3341.1	3264.7	3206.7	3189.5	3188.2
12.5°	3552.1	3602.7	3601.4	3539.7	3444.7	3321.4	3189.5	3100.7	3021.8	2982.3	2998.3
15°	3621.1	3659.4	3623.6	3512.6	3362.1	3193.2	3030.4	2909.5	2820.7	2778.7	2781.2
17.5°	3701.3	3734.6	3639.6	3464.5	3246.2	3029.1	2840.4	2725.7	2655.4	2624.6	2622.1
20°	3801.2	3811.1	3639.6	3380.6	3096.9	2838.0	2657.9	2577.7	2538.3	2522.2	2527.1
22.5°	3908.5	3888.8	3619.9	3262.2	2900.9	2638.2	2517.3	2481.5	2461.8	2459.3	2461.8
25°	4029.4	3973.9	3579.2	3101.9	2696.1	2465.5	2395.2	2401.3	2405.1	2405.1	2413.7
27.5°	4177.4	4066.4	3511.4	2899.6	2456.8	2305.2	2285.4	2328.6	2348.3	2352.0	2358.2
30°	4372.3	4167.5	3399.2	2646.8	2253.3	2160.8	2195.4	2253.3	2275.6	2289.1	2286.7
32.5°	4604.1	4278.5	3247.4	2393.9	2089.3	2059.7	2101.7	2160.8	2185.5	2192.9	2183.0
35°	4876.7	4404.3	3047.6	2157.2	1946.2	1963.5	2012.9	2031.3	2053.6	2053.6	2058.5
37.5°	5170.2	4505.5	2803.5	1940.0	1835.2	1898.1	1933.9	1916.6	1906.8	1894.5	1900.6
40°	5468.7	4580.7	2486.4	1725.5	1724.2	1830.3	1840.1	1790.8	1751.3	1739.0	1732.9
42.5°	5728.9	4627.5	2200.3	1559.0	1619.4	1763.7	1771.1	1692.1	1629.3	1592.2	1579.9
45°	6036.1	4681.8	1920.3	1420.8	1522.0	1710.7	1729.2	1623.1	1530.6	1452.9	1433.1
47.5°	6456.6	4805.1	1699.6	1313.6	1451.7	1677.3	1703.3	1566.4	1444.2	1343.2	1327.1
50°	6931.4	4974.1	1528.1	1240.7	1397.4	1647.7	1679.8	1508.4	1364.1	1251.9	1239.5
52.5°	7366.9	5065.4	1380.1	1175.4	1344.3	1593.5	1649.0	1466.5	1285.1	1160.6	1149.5
55°	7604.9	4917.4	1234.6	1111.2	1271.6	1523.2	1605.9	1408.5	1208.7	1112.5	1096.4
57.5°	7636.9	4611.5	1102.6	1042.2	1195.1	1436.9	1525.7	1338.2	1159.4	1079.2	1065.6
60°	7389.0	4155.1	1000.3	985.5	1117.4	1339.4	1435.6	1276.5	1108.8	1042.2	1028.6
62.5°	6772.3	3659.4	928.7	933.6	1038.5	1237.1	1369.0	1217.3	1060.7	1001.5	989.2
65°	5711.7	3020.5	859.7	880.6	968.2	1156.9	1308.6	1168.0	1012.6	970.7	959.6
67.5°	3967.7	2180.6	802.9	825.1	901.5	1075.5	1238.3	1114.9	958.3	936.2	918.9
70°	2196.6	1341.9	736.3	762.3	832.5	984.2	1159.4	1034.8	879.4	869.5	844.9
72.5°	1154.5	854.7	661.1	689.4	738.8	867.0	1038.5	947.2	801.7	759.7	727.6
74°	901.5	700.6	610.5	640.1	673.4	798.0	966.9	884.3	746.2	696.9	672.2
75°	785.7	624.1	567.4	605.6	635.2	751.1	911.4	839.9	715.3	668.4	646.3
77.5°	555.0	467.5	463.8	509.3	525.4	658.6	821.4	764.7	637.7	588.3	567.4
80°	389.8	350.2	367.5	395.9	418.1	582.2	762.3	661.1	523.0	464.9	457.6
82.5°	254.1	229.4	262.7	288.6	296.0	429.2	615.4	502.0	381.1	309.6	287.4
85°	117.1	114.7	150.5	146.7	145.6	209.7	365.0	293.5	219.6	164.0	154.2
87.5°	29.6	28.3	37.0	30.9	37.0	32.1	33.3	8.6	1.3	0.0	0.0
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)