

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: P530686

Luminaire Tested: **GALN-SA5D-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530686
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-SA5D-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA 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: 27052 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 309
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

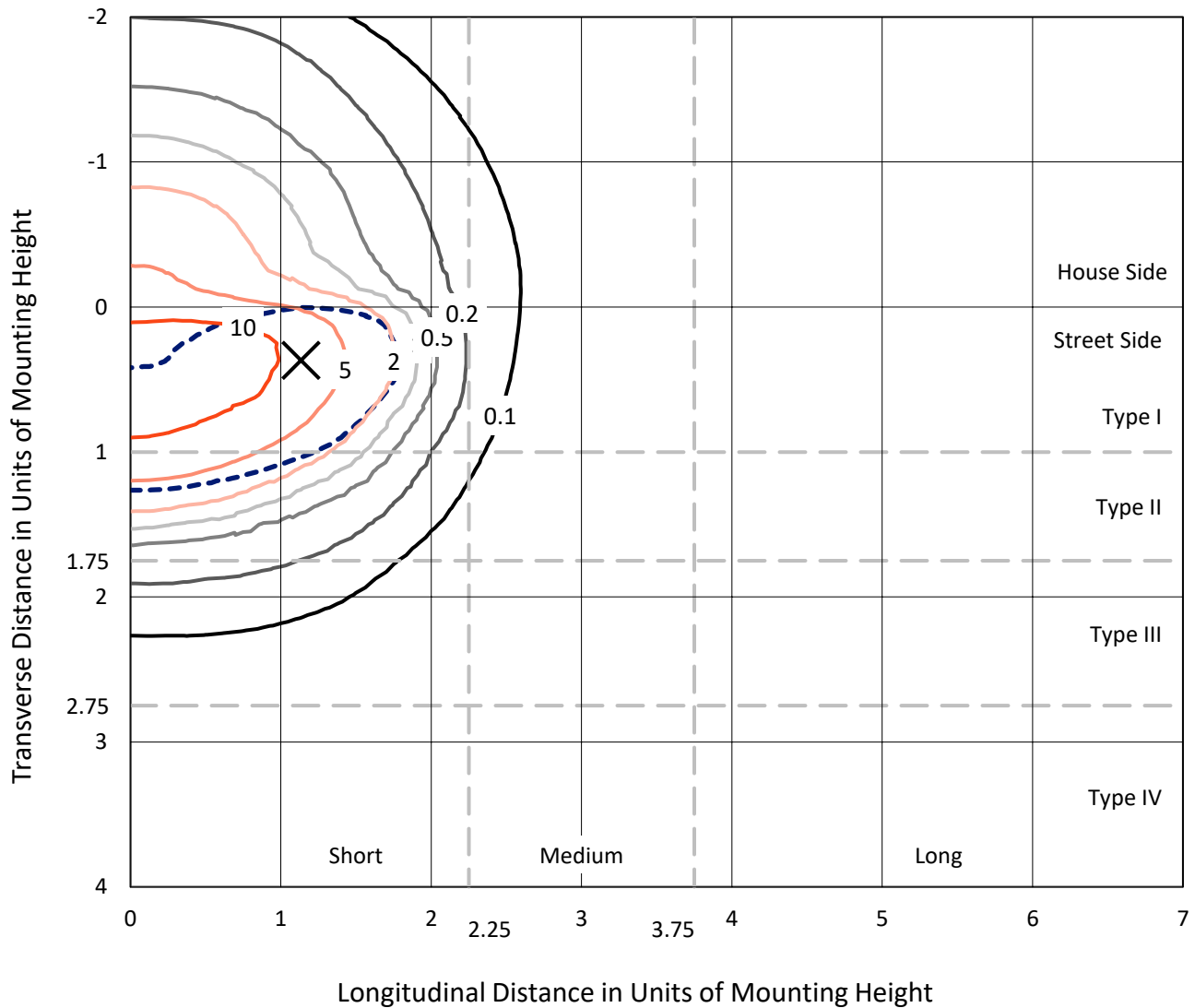


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

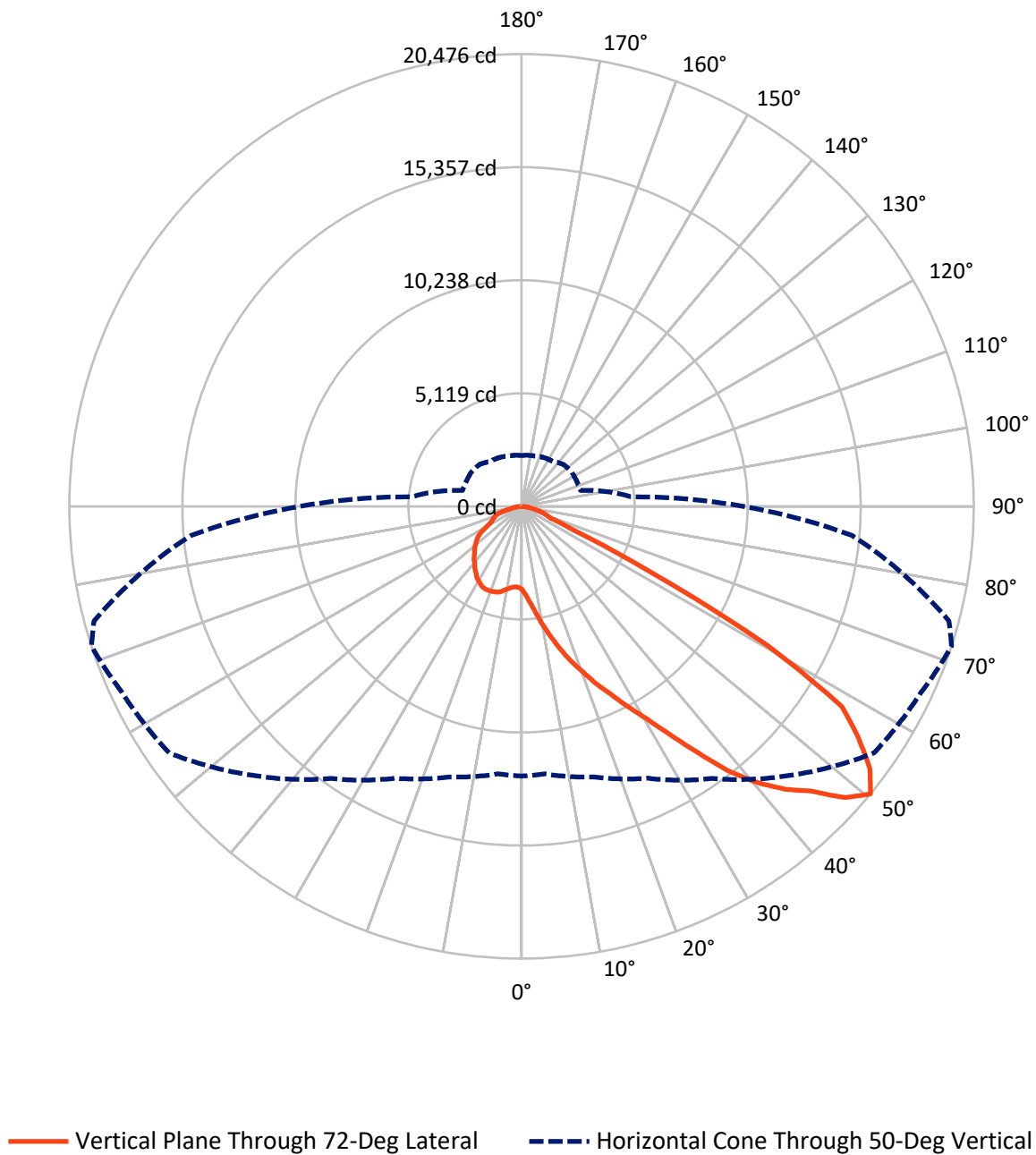


Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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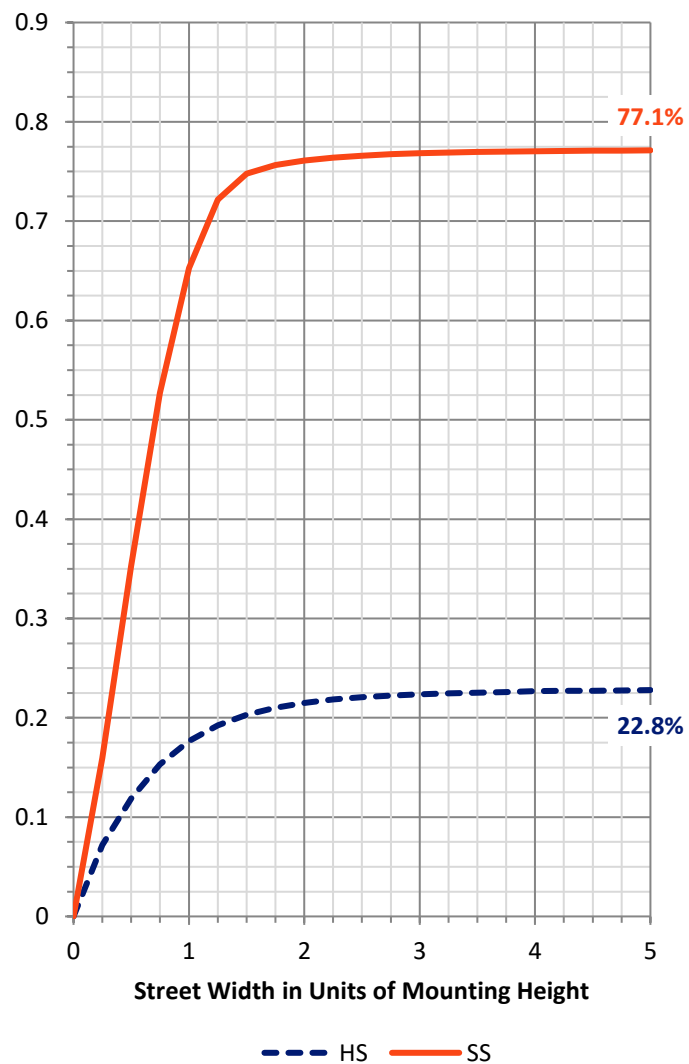
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6197.8	0.0	6197.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	20854.2	0.0	20854.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	27052.0	0.0	27052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.0	1.6
10°-20°	1655.9	6.1
20°-30°	3210.8	11.9
30°-40°	5319.1	19.7
40°-50°	7442.6	27.5
50°-60°	6278.8	23.2
60°-70°	1913.8	7.1
70°-80°	671.4	2.5
80°-90°	116.7	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°	27052.0	100.0
0°-180°	27052.0	100.0

Coefficient of Utilization



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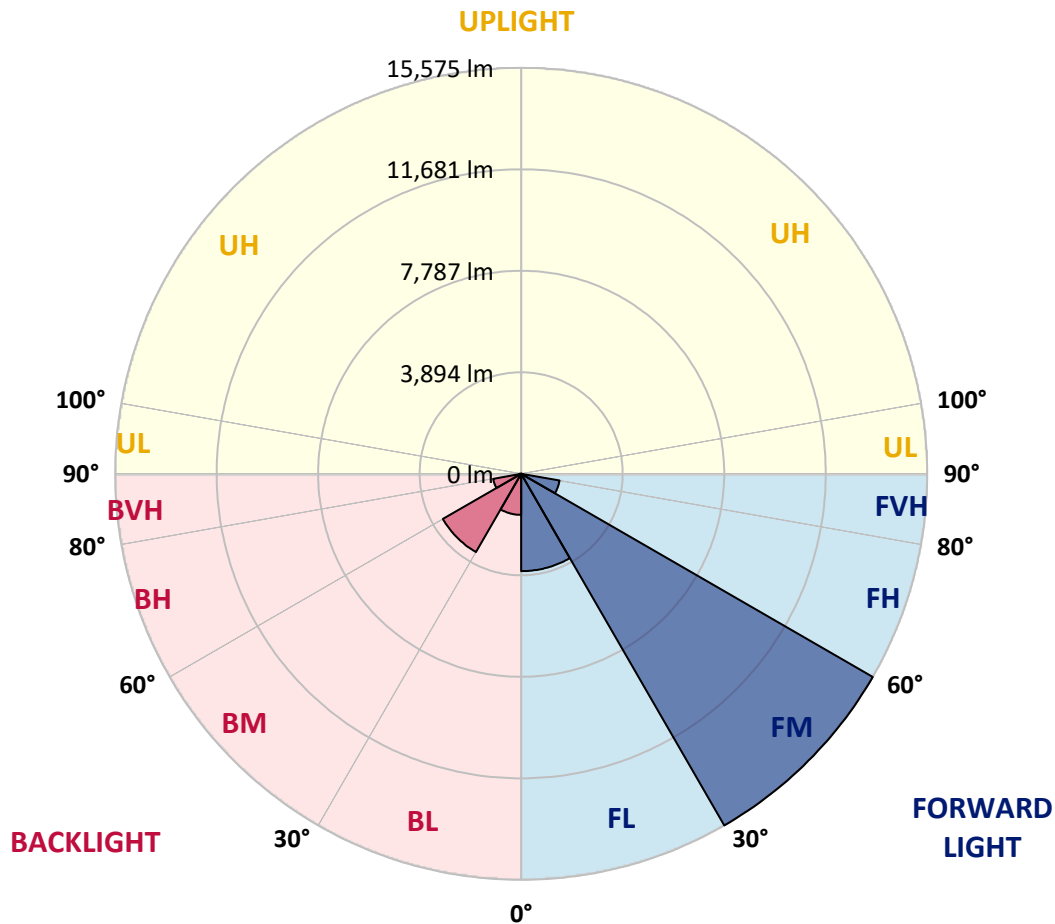
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3734.2	13.8			
FM	(30°-60°)	15574.6	57.6			
FH	(60°-80°)	1493.2	5.5			G1/1800
FVH	(80°-90°)	52.3	0.2			G1/100
BL	(0°-30°)	1575.5	5.8	B3/2500		
BM	(30°-60°)	3465.9	12.8	B3/5000		
BH	(60°-80°)	1091.9	4.0	B3/2500		G3/2500
BVH	(80°-90°)	64.4	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9
2.5°	4843.7	4813.6	4723.2	4693.1	4586.0	4391.8	4324.9	4127.4	4043.7	3966.7	3876.3
5°	6125.8	5985.2	5975.2	5804.5	5556.7	5412.8	4984.3	4696.5	4432.0	4298.1	4050.4
7.5°	6942.6	6945.9	6945.9	6805.3	6607.8	6243.0	5858.0	5339.2	4940.8	4743.3	4321.5
10°	7719.2	7652.2	7615.4	7602.0	7468.1	7113.3	6701.6	6058.9	5513.2	5282.3	4525.7
12.5°	8268.2	8211.3	8295.0	8251.4	8154.4	7923.4	7535.1	6802.0	6119.1	5807.8	4853.8
15°	8529.3	8569.4	8636.4	8756.9	8713.4	8626.4	8197.9	7565.2	6771.9	6420.4	5145.0
17.5°	8931.0	8820.5	8900.8	9051.5	9172.0	9131.8	8887.5	8117.5	7417.9	6986.1	5536.7
20°	9212.2	9148.6	9188.7	9362.8	9453.2	9680.8	9553.6	8840.6	8037.2	7581.9	5998.6
22.5°	10015.5	9921.8	9791.3	9818.0	9851.5	10012.2	10042.3	9633.9	8756.9	8274.9	6437.1
25°	11006.4	10919.3	10765.4	10608.0	10511.0	10480.8	10584.6	10256.6	9446.5	8947.7	6909.1
27.5°	12097.6	11950.4	11853.3	11528.6	11267.5	11227.3	11177.1	10999.7	10263.2	9724.3	7441.4
30°	13158.8	13041.6	12911.1	12392.2	12121.1	12077.6	11829.9	11880.1	11150.3	10551.1	8043.9
32.5°	13962.2	13972.2	13674.3	13282.6	13028.2	12797.3	12706.9	12850.8	12288.4	11806.4	8716.7
35°	14611.6	14641.7	14357.2	14002.3	13727.8	13888.5	13848.4	13915.3	13647.5	13058.4	9500.0
37.5°	15244.2	15093.6	14789.0	14618.3	14474.3	14738.8	15080.2	15137.1	15187.3	14494.4	10410.5
40°	15348.0	15361.4	15184.0	15304.5	15123.7	15522.1	16315.4	16241.8	16446.0	15840.1	11398.0
42.5°	15200.7	15230.8	15301.1	15471.9	15907.0	16385.7	17564.0	17262.7	17510.5	16971.5	12358.7
45°	14959.7	14835.9	14922.9	15572.3	16325.5	17389.9	18705.5	18471.2	18390.8	17938.9	13503.6
47.5°	13808.2	13935.4	14206.5	15006.6	16138.0	17564.0	19515.6	19462.0	19703.0	19385.0	14544.6
50°	12211.5	12161.2	12683.4	13583.9	15043.4	17222.6	19472.1	19957.4	20476.3	20034.4	15009.9
52.5°	9145.2	9413.0	9861.6	10979.6	13061.7	15361.4	18521.4	19331.5	19753.2	19659.5	14635.0
55°	5781.0	5861.4	6132.5	7461.4	9336.0	12328.6	15876.9	17754.8	18508.0	18859.5	14290.2
57.5°	2808.5	2657.9	2989.3	4057.1	5392.7	8291.6	12244.9	15465.2	17102.1	17738.1	13540.4
60°	1466.2	1523.1	1653.6	2035.2	2788.4	4304.8	7632.2	10306.8	12807.3	13784.8	10263.2
62.5°	1215.1	1235.2	1322.2	1513.0	1854.5	2477.1	3896.4	5024.5	6530.9	7411.2	5837.9
65°	1031.0	1041.1	1134.8	1262.0	1479.6	1744.0	2005.1	2098.8	2540.7	2607.7	2075.4
67.5°	860.3	870.3	970.8	1091.3	1231.9	1302.2	1369.1	1362.4	1412.6	1392.5	1389.2
70°	662.8	672.8	776.6	903.8	974.1	933.9	1141.5	1188.3	1208.4	1225.2	1251.9
72.5°	478.7	498.8	579.1	669.5	632.7	726.4	940.6	1010.9	1037.7	1047.7	1081.2
75°	348.1	354.8	374.9	348.1	401.7	505.5	662.8	749.8	783.3	793.3	843.6
77.5°	154.0	157.3	160.7	200.8	257.8	314.7	395.0	465.3	512.2	525.5	538.9
80°	80.3	83.7	103.8	137.2	184.1	231.0	287.9	328.0	358.2	361.5	374.9
82.5°	50.2	53.6	73.6	97.1	130.6	170.7	210.9	244.4	267.8	271.1	274.5
85°	23.4	30.1	43.5	60.3	87.0	110.5	113.8	97.1	103.8	107.1	100.4
87.5°	6.7	10.0	13.4	10.0	13.4	13.4	16.7	20.1	20.1	20.1	23.4
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°	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9	3765.9
2.5°	3826.1	3796.0	3678.8	3635.3	3521.5	3541.6	3481.3	3478.0	3464.6	3461.3	3457.9
5°	3919.9	3826.1	3685.5	3578.4	3514.8	3508.1	3464.6	3464.6	3478.0	3488.0	3464.6
7.5°	4073.8	3966.7	3729.0	3628.6	3571.7	3561.7	3531.5	3508.1	3538.2	3528.2	3501.4
10°	4251.2	4063.8	3812.7	3725.7	3632.0	3608.5	3608.5	3618.6	3568.4	3585.1	3558.3
12.5°	4448.7	4197.7	3919.9	3819.4	3709.0	3695.6	3688.9	3615.2	3642.0	3628.6	3561.7
15°	4699.8	4351.7	4057.1	3886.4	3792.6	3732.4	3645.4	3632.0	3615.2	3581.8	3551.6
17.5°	4970.9	4519.0	4120.7	3906.5	3765.9	3722.4	3655.4	3585.1	3534.9	3541.6	3518.2
20°	5201.9	4673.0	4144.1	3926.5	3745.8	3662.1	3558.3	3514.8	3461.3	3457.9	3454.6
22.5°	5476.4	4880.6	4177.6	3873.0	3685.5	3598.5	3528.2	3451.2	3414.4	3367.5	3391.0
25°	5804.5	4960.9	4184.3	3842.9	3642.0	3488.0	3451.2	3367.5	3354.1	3287.2	3300.6
27.5°	6042.1	5004.4	4130.7	3749.1	3541.6	3424.4	3357.5	3297.2	3273.8	3223.6	3210.2
30°	6360.1	5071.4	4016.9	3632.0	3441.2	3310.6	3270.4	3257.1	3190.1	3136.6	3129.9
32.5°	6721.7	5114.9	3943.3	3511.5	3337.4	3237.0	3257.1	3193.5	3109.8	3062.9	3049.5
35°	7009.5	5131.6	3759.2	3374.2	3267.1	3203.5	3180.1	3166.7	3046.2	3002.7	2969.2
37.5°	7448.1	5094.8	3605.2	3277.1	3190.1	3166.7	3146.6	3056.2	2919.0	2855.4	2808.5
40°	7960.2	5084.8	3407.7	3139.9	3116.5	3143.2	3083.0	2942.4	2751.6	2681.3	2647.8
42.5°	8452.3	5155.1	3283.8	3066.3	3036.1	3046.2	2962.5	2751.6	2657.9	2617.7	2564.1
45°	9275.8	5302.3	3079.6	2952.4	2939.1	2932.4	2831.9	2611.0	2557.4	2507.2	2497.2
47.5°	10018.9	5205.3	2949.1	2835.3	2848.7	2811.8	2597.6	2527.3	2467.1	2416.9	2400.1
50°	10062.4	4974.3	2765.0	2744.9	2748.2	2684.6	2480.5	2433.6	2356.6	2323.1	2299.7
52.5°	9834.8	4596.0	2594.3	2601.0	2611.0	2507.2	2336.5	2303.0	2239.4	2192.6	2179.2
55°	9195.4	4006.9	2426.9	2453.7	2480.5	2283.0	2229.4	2145.7	2095.5	2028.5	2031.9
57.5°	8100.8	3226.9	2192.6	2236.1	2293.0	2075.4	2035.2	1931.5	1857.8	1804.3	1797.6
60°	5429.5	2296.3	1841.1	1857.8	1985.0	1898.0	1894.7	1790.9	1690.5	1643.6	1616.8
62.5°	3203.5	1754.1	1590.0	1573.3	1569.9	1620.2	1703.8	1667.0	1536.5	1446.1	1472.9
65°	1677.1	1516.4	1479.6	1422.7	1389.2	1375.8	1439.4	1456.1	1369.1	1272.0	1265.3
67.5°	1409.3	1409.3	1379.1	1359.1	1312.2	1255.3	1215.1	1161.6	1148.2	1121.4	1087.9
70°	1282.1	1315.5	1305.5	1258.6	1218.5	1154.9	1051.1	964.1	880.4	850.2	870.3
72.5°	1118.0	1151.5	1151.5	1128.1	1074.5	977.5	877.0	776.6	706.3	652.8	646.1
75°	860.3	877.0	917.2	890.4	820.1	759.9	656.1	552.3	485.4	435.2	425.1
77.5°	549.0	575.8	575.8	572.4	522.2	465.3	398.3	324.7	274.5	237.7	227.6
80°	364.9	381.6	395.0	381.6	348.1	304.6	254.4	204.2	167.4	137.2	130.6
82.5°	267.8	287.9	297.9	284.5	251.1	217.6	180.8	143.9	107.1	83.7	77.0
85°	103.8	107.1	120.5	143.9	140.6	137.2	110.5	80.3	60.3	43.5	40.2
87.5°	26.8	23.4	26.8	26.8	23.4	20.1	20.1	20.1	20.1	10.0	13.4
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)