

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: P522791

Luminaire Tested: **GALN-SA5D-827-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5D-827-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28500 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

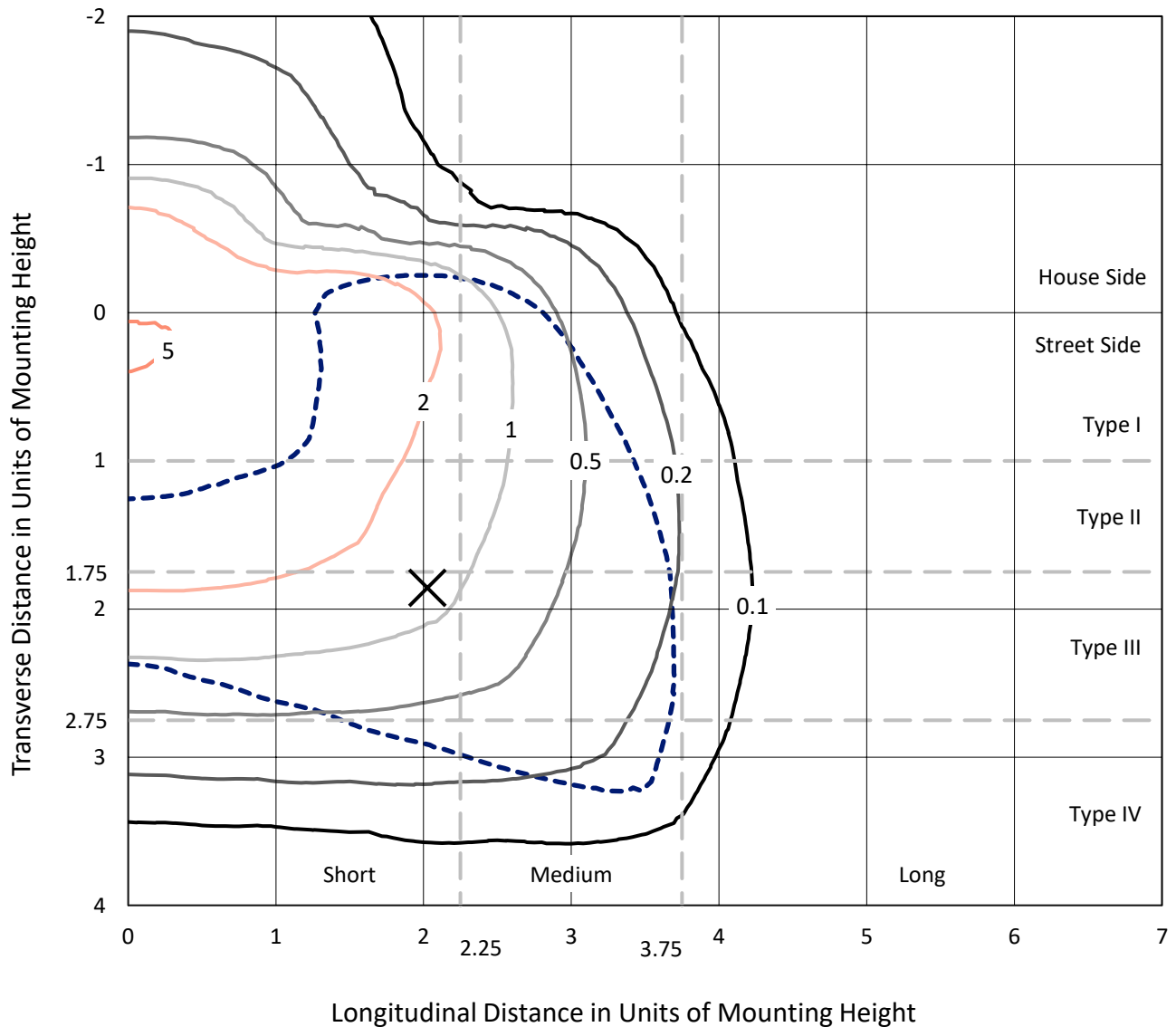
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

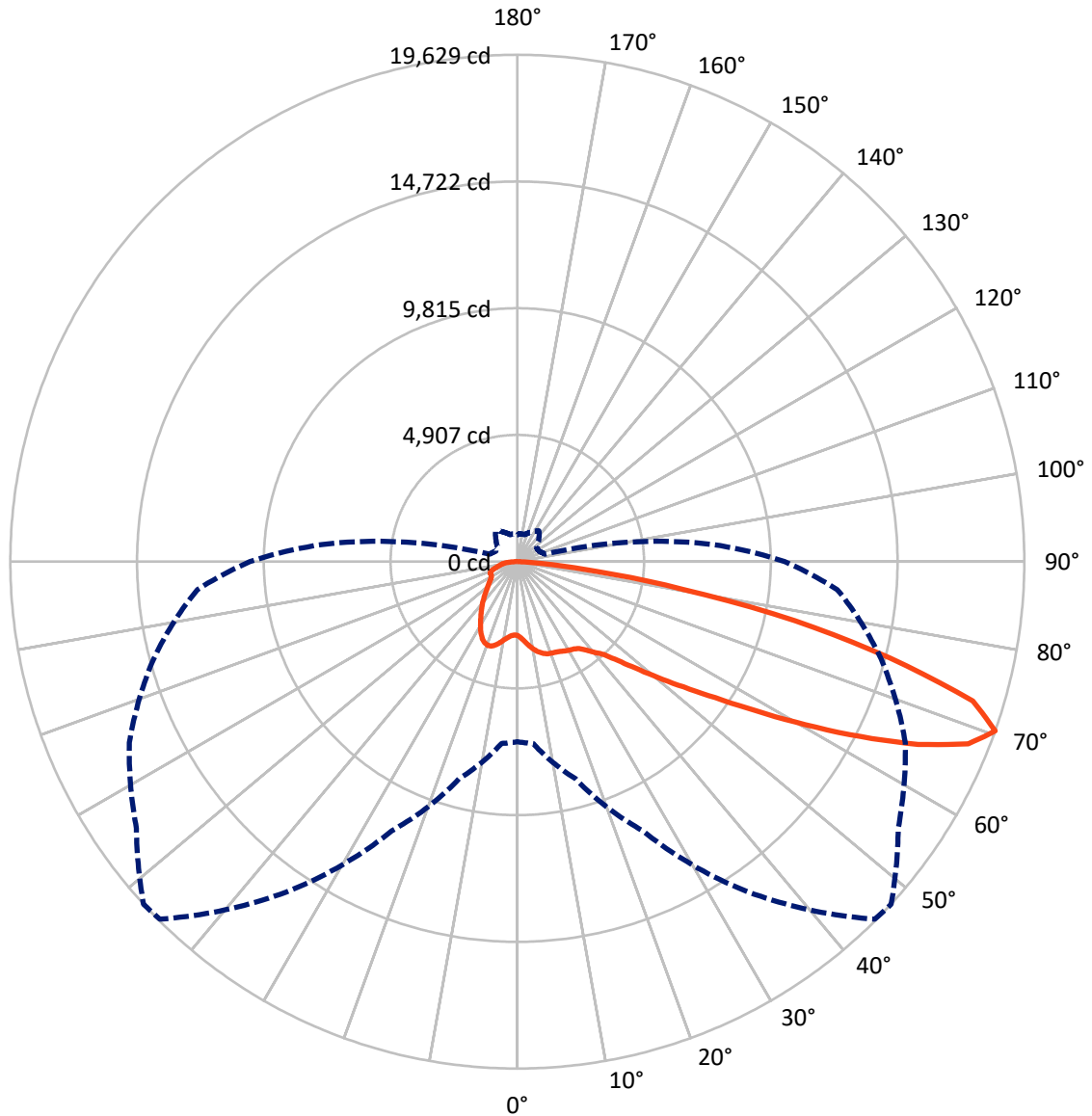
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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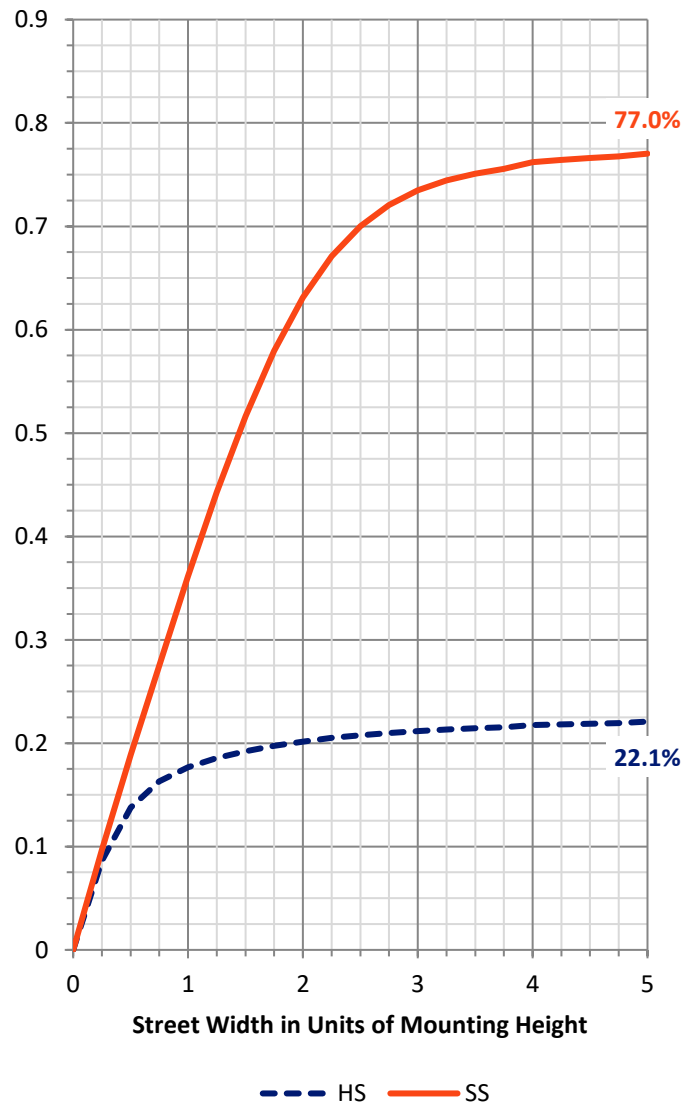
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6453.0	0.0	6453.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22047.1	0.0	22047.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	28500.0	0.0	28500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	1.0
10°-20°	985.9	3.5
20°-30°	1639.6	5.8
30°-40°	2323.9	8.2
40°-50°	3430.5	12.0
50°-60°	5941.8	20.8
60°-70°	8393.0	29.4
70°-80°	4824.7	16.9
80°-90°	665.7	2.3
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°	28500.0	100.0
0°-180°	28500.0	100.0

Coefficient of Utilization



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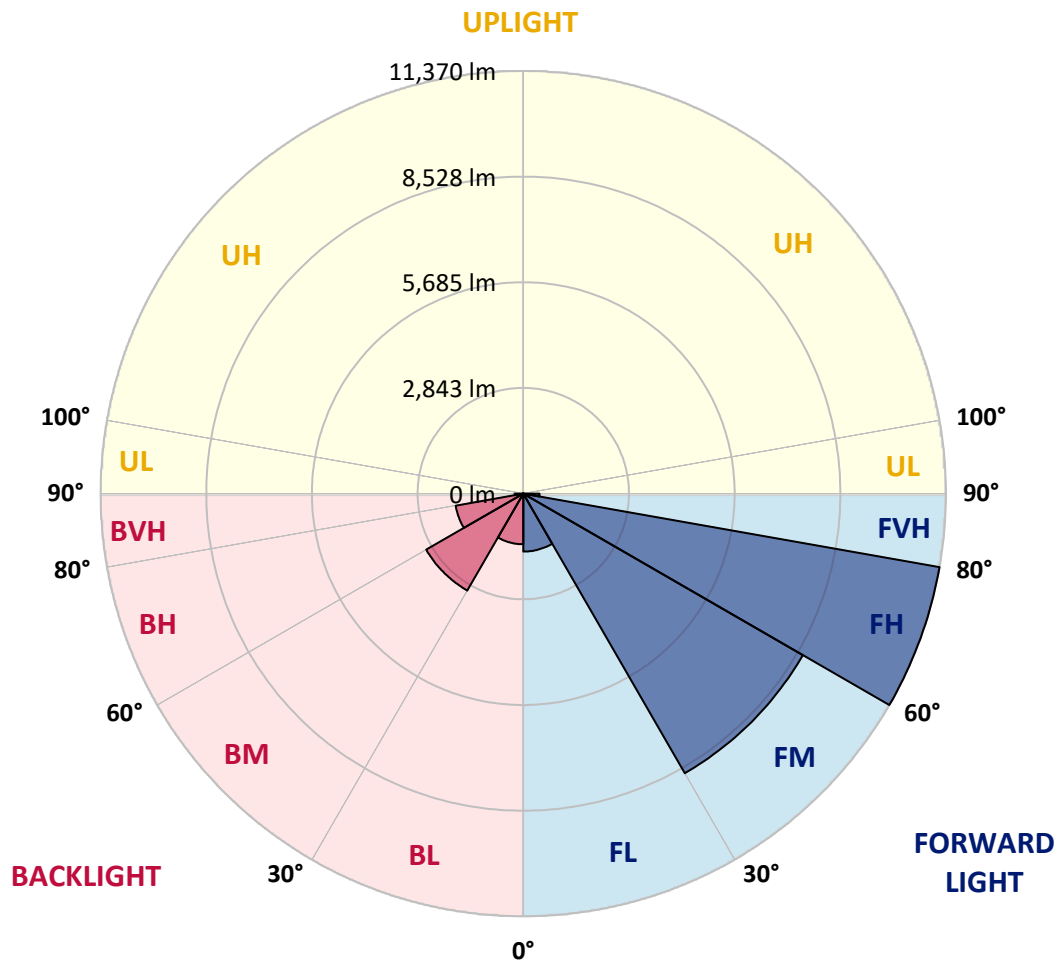
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1558.5	5.5			
FM	(30°-60°)	8683.4	30.5			
FH	(60°-80°)	11370.3	39.9			G4/12000
FVH	(80°-90°)	434.9	1.5			G3/500
BL	(0°-30°)	1361.9	4.8	B3/2500		
BM	(30°-60°)	3012.8	10.6	B3/5000		
BH	(60°-80°)	1847.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	230.8	0.8			G3/500
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°	35°	45°	47.5°	55°	65°	75°	85°
0°	2861.1	2861.1	2861.1	2861.1	2861.1	2861.1	2861.1	2861.1	2861.1	2861.1	2861.1
2.5°	3045.6	3034.9	3033.4	3010.5	2998.3	2975.4	2966.3	2944.9	2919.0	2893.1	2868.7
5°	3285.0	3285.0	3274.4	3242.3	3192.0	3140.1	3117.3	3076.1	3002.9	2943.4	2893.1
7.5°	3530.6	3533.6	3512.3	3465.0	3393.3	3309.4	3288.1	3227.1	3123.4	3036.4	2961.7
10°	3742.6	3742.6	3713.6	3649.5	3559.5	3468.0	3446.7	3378.1	3262.2	3153.9	3056.3
12.5°	3904.2	3904.2	3866.1	3782.2	3684.6	3602.2	3577.8	3512.3	3404.0	3283.5	3160.0
15°	4009.4	4001.8	3959.1	3864.6	3770.0	3698.3	3681.6	3626.6	3527.5	3405.5	3266.7
17.5°	4014.0	4011.0	3969.8	3890.5	3808.1	3759.3	3748.7	3712.1	3634.3	3518.4	3372.0
20°	3925.6	3931.7	3904.2	3847.8	3808.1	3786.8	3782.2	3770.0	3715.1	3606.8	3460.4
22.5°	3831.0	3841.7	3815.8	3785.3	3782.2	3803.6	3806.6	3809.7	3774.6	3669.4	3535.1
25°	3808.1	3815.8	3789.8	3762.4	3779.2	3835.6	3847.8	3860.0	3832.5	3744.1	3623.6
27.5°	3924.0	3917.9	3867.6	3808.1	3818.8	3895.1	3911.8	3925.6	3911.8	3835.6	3733.4
30°	4251.9	4232.1	4131.5	3957.6	3902.7	3956.1	3972.8	4011.0	4011.0	3954.5	3852.4
32.5°	4801.0	4762.8	4578.3	4236.7	4046.0	4014.0	4030.8	4093.3	4125.4	4081.1	3969.8
35°	5467.4	5427.8	5163.9	4704.9	4308.4	4129.9	4125.4	4195.5	4280.9	4181.8	4036.9
37.5°	6136.9	6095.8	5778.5	5263.1	4691.2	4373.9	4346.5	4370.9	4407.5	4226.0	4129.9
40°	6806.4	6757.6	6480.1	5886.8	5159.4	4697.3	4625.6	4515.8	4500.5	4370.9	4309.9
42.5°	7469.9	7425.6	7285.3	6586.8	5720.6	5013.0	4903.1	4714.0	4772.0	4694.2	4640.8
45°	8139.4	8142.4	7993.0	7372.3	6397.7	5595.5	5447.6	5151.7	5289.0	5260.0	5290.5
47.5°	8732.6	8725.0	8671.6	8134.8	7238.0	6345.9	6155.2	5812.1	6047.0	6153.7	6387.1
50°	9307.6	9303.0	9306.1	8999.5	8214.1	7238.0	7027.6	6667.7	7196.9	7567.5	7985.3
52.5°	10131.1	10157.1	9972.5	9891.7	9400.6	8291.9	8060.1	7687.9	8555.7	9139.8	9955.7
55°	10957.7	10936.4	10791.5	10875.4	10642.0	9539.4	9296.9	9001.0	10068.6	10707.6	11933.8
57.5°	11444.2	11451.9	11599.8	12010.0	12174.7	11095.0	10875.4	10646.6	11769.1	12222.0	13693.7
60°	11881.9	11917.0	12342.5	13117.2	13564.1	13005.9	12810.7	12588.0	13329.2	13509.2	15221.9
62.5°	12019.2	12127.5	12870.2	14029.2	14918.4	15162.4	14919.9	14428.8	14814.7	14744.5	16257.4
65°	11334.4	11482.4	12813.8	14370.9	16127.8	17209.0	17055.0	16143.0	16080.5	15658.0	16426.7
67.5°	9531.8	9679.7	11389.3	13654.1	16628.0	18981.2	18827.2	17393.6	16849.1	15743.4	15145.6
70°	6974.2	7067.2	8702.1	11496.1	15623.0	19576.0	19629.4	18003.6	16574.6	14582.9	12435.5
72.5°	4018.6	4224.5	5369.8	8087.5	12763.4	18072.2	18442.8	16734.7	14839.1	12165.6	8694.5
75°	1727.9	1732.5	2482.8	4460.9	8644.2	14526.4	14884.8	13872.2	11653.2	8412.4	4642.4
77.5°	822.0	837.3	1092.0	1991.8	4758.3	10036.6	11003.5	9800.2	7453.1	4041.5	1753.8
80°	533.8	544.5	668.0	988.3	2333.4	5819.7	6493.8	5653.5	3288.1	1444.3	756.4
82.5°	323.3	326.4	446.8	603.9	1284.1	2635.3	3106.6	2453.9	1403.1	864.7	445.3
85°	196.7	198.3	271.5	373.6	779.3	910.5	934.9	927.3	823.5	565.8	237.9
87.5°	94.6	97.6	140.3	176.9	306.5	282.1	266.9	309.6	388.9	305.0	102.2
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°	2861.1	2861.1	2861.1	2861.1	2861.1	2861.1	2861.1	2861.1	2861.1	2861.1	2861.1
2.5°	2858.0	2853.4	2842.8	2838.2	2835.1	2836.7	2835.1	2835.1	2836.7	2836.7	2836.7
5°	2871.7	2864.1	2847.3	2847.3	2856.5	2877.8	2897.7	2912.9	2929.7	2928.2	2928.2
7.5°	2931.2	2917.5	2897.7	2903.8	2926.6	2960.2	2995.3	3028.8	3062.4	3065.4	3063.9
10°	3018.1	3004.4	2983.1	2990.7	3027.3	3077.6	3121.8	3170.6	3207.3	3217.9	3214.9
12.5°	3117.3	3089.8	3071.5	3092.9	3150.8	3217.9	3260.6	3297.2	3323.2	3338.4	3332.3
15°	3217.9	3192.0	3170.6	3214.9	3285.0	3347.6	3368.9	3375.0	3379.6	3394.8	3391.8
17.5°	3315.5	3280.5	3272.8	3330.8	3397.9	3425.3	3413.1	3387.2	3367.4	3379.6	3378.1
20°	3402.5	3375.0	3372.0	3429.9	3455.8	3429.9	3378.1	3332.3	3297.2	3300.3	3298.8
22.5°	3484.8	3463.5	3466.5	3490.9	3449.7	3361.3	3275.9	3213.4	3175.2	3182.8	3187.4
25°	3576.3	3555.0	3562.6	3522.9	3387.2	3233.2	3109.6	3056.3	3041.0	3056.3	3066.9
27.5°	3695.3	3681.6	3677.0	3524.5	3275.9	3044.1	2903.8	2883.9	2897.7	2931.2	2948.0
30°	3823.4	3823.4	3799.0	3498.5	3123.4	2816.8	2694.8	2697.9	2745.2	2792.4	2809.2
32.5°	3946.9	3972.8	3896.6	3428.4	2926.6	2595.7	2502.7	2505.7	2546.9	2604.8	2620.1
35°	4049.1	4123.8	3980.5	3300.3	2694.8	2409.6	2339.5	2298.3	2299.8	2344.1	2356.3
37.5°	4189.4	4328.2	4029.3	3109.6	2447.8	2251.0	2171.7	2100.0	2052.8	2034.5	2034.5
40°	4433.4	4637.8	4041.5	2827.5	2214.4	2100.0	1987.2	1901.8	1810.3	1727.9	1712.7
42.5°	4846.7	5104.5	4017.1	2502.7	2004.0	1933.8	1824.0	1718.8	1592.2	1476.3	1467.1
45°	5578.8	5711.4	3951.5	2165.6	1816.4	1773.7	1666.9	1552.5	1418.3	1314.6	1307.0
47.5°	6751.5	6564.0	3864.6	1866.7	1645.6	1633.4	1551.0	1418.3	1284.1	1212.4	1204.8
50°	8464.2	7906.0	3852.4	1650.1	1508.3	1514.4	1447.3	1325.3	1207.9	1148.4	1139.2
52.5°	10526.1	9527.2	3933.2	1497.6	1387.8	1410.7	1377.2	1264.3	1160.6	1110.3	1101.1
55°	12527.0	10985.2	3982.0	1378.7	1275.0	1317.7	1322.2	1227.7	1133.1	1082.8	1076.7
57.5°	14151.3	12083.2	3765.4	1270.4	1177.4	1242.9	1276.5	1206.3	1119.4	1081.3	1075.2
60°	15281.3	12601.8	3149.3	1174.3	1105.7	1183.5	1259.7	1207.9	1153.0	1157.5	1160.6
62.5°	15641.3	12371.5	2362.4	1102.6	1056.9	1163.6	1287.2	1270.4	1214.0	1249.0	1255.1
65°	15045.0	11419.8	1712.7	1046.2	1014.2	1177.4	1369.5	1316.1	1192.6	1218.5	1218.5
67.5°	13048.6	9838.3	1332.9	994.4	965.4	1203.3	1451.9	1311.6	1142.3	1172.8	1145.3
70°	10350.7	7610.2	1110.3	936.4	913.5	1165.2	1459.5	1264.3	1082.8	1088.9	1037.1
72.5°	6869.0	5003.8	954.7	881.5	834.2	1047.7	1397.0	1203.3	1024.9	989.8	937.9
75°	3365.9	2495.0	832.7	812.9	730.5	912.0	1311.6	1145.3	962.3	907.4	878.4
77.5°	1303.9	1061.5	710.7	725.9	636.0	803.7	1198.7	1063.0	880.0	805.2	782.4
80°	632.9	602.4	582.6	605.5	523.1	684.8	1095.0	991.3	803.7	721.4	687.8
82.5°	393.5	372.1	446.8	471.3	402.6	625.3	1038.6	930.3	707.6	597.8	570.4
85°	199.8	213.5	298.9	321.8	288.2	497.2	855.6	698.5	510.9	424.0	427.0
87.5°	76.3	102.2	157.1	169.3	154.0	262.3	471.3	407.2	327.9	222.7	205.9
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)