

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: P319469

Luminaire Tested: **GLEON-SA5A-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5A-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16774 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 162
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

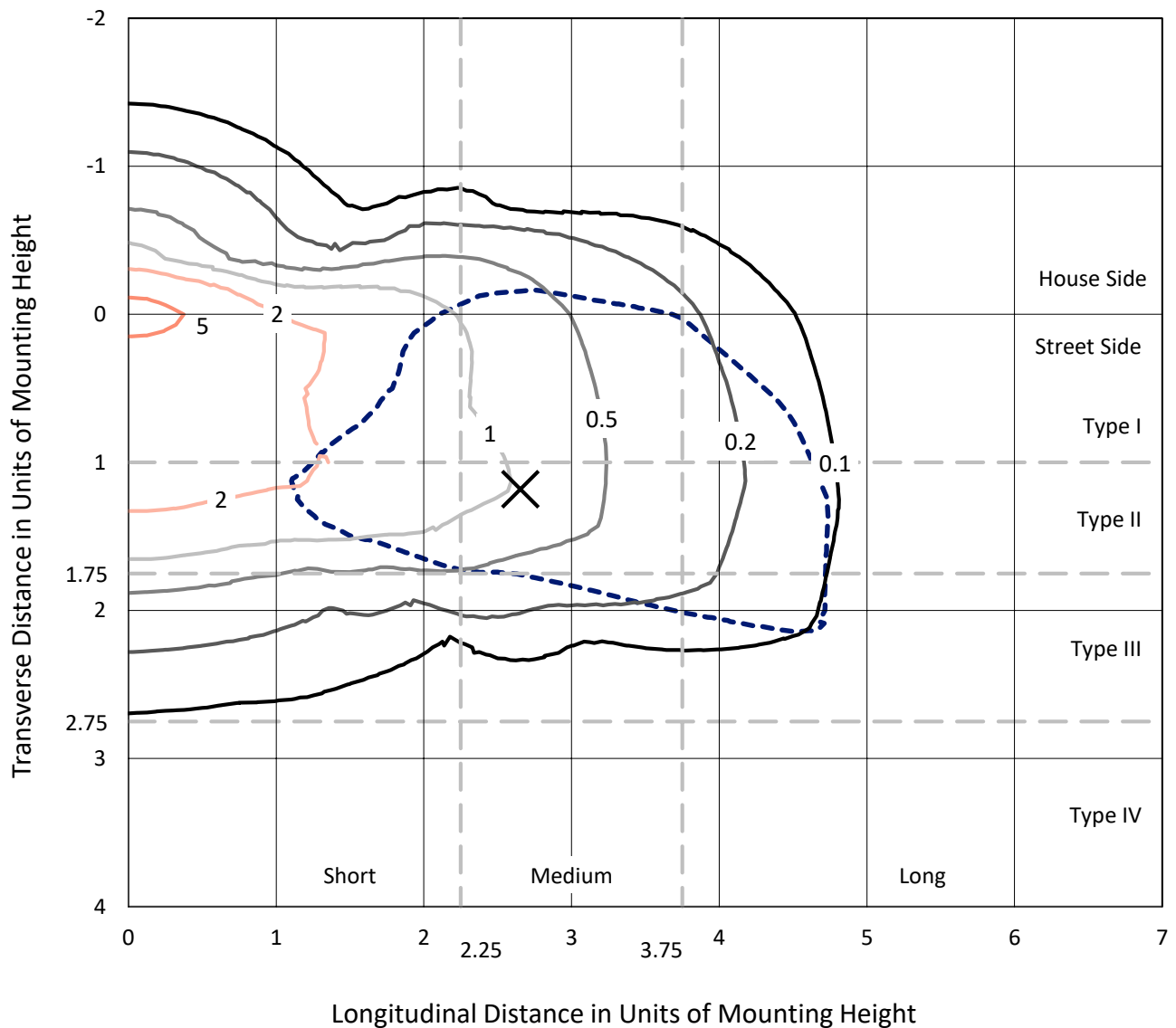




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Iso-Footcandle Lines of Horizontal Illumination

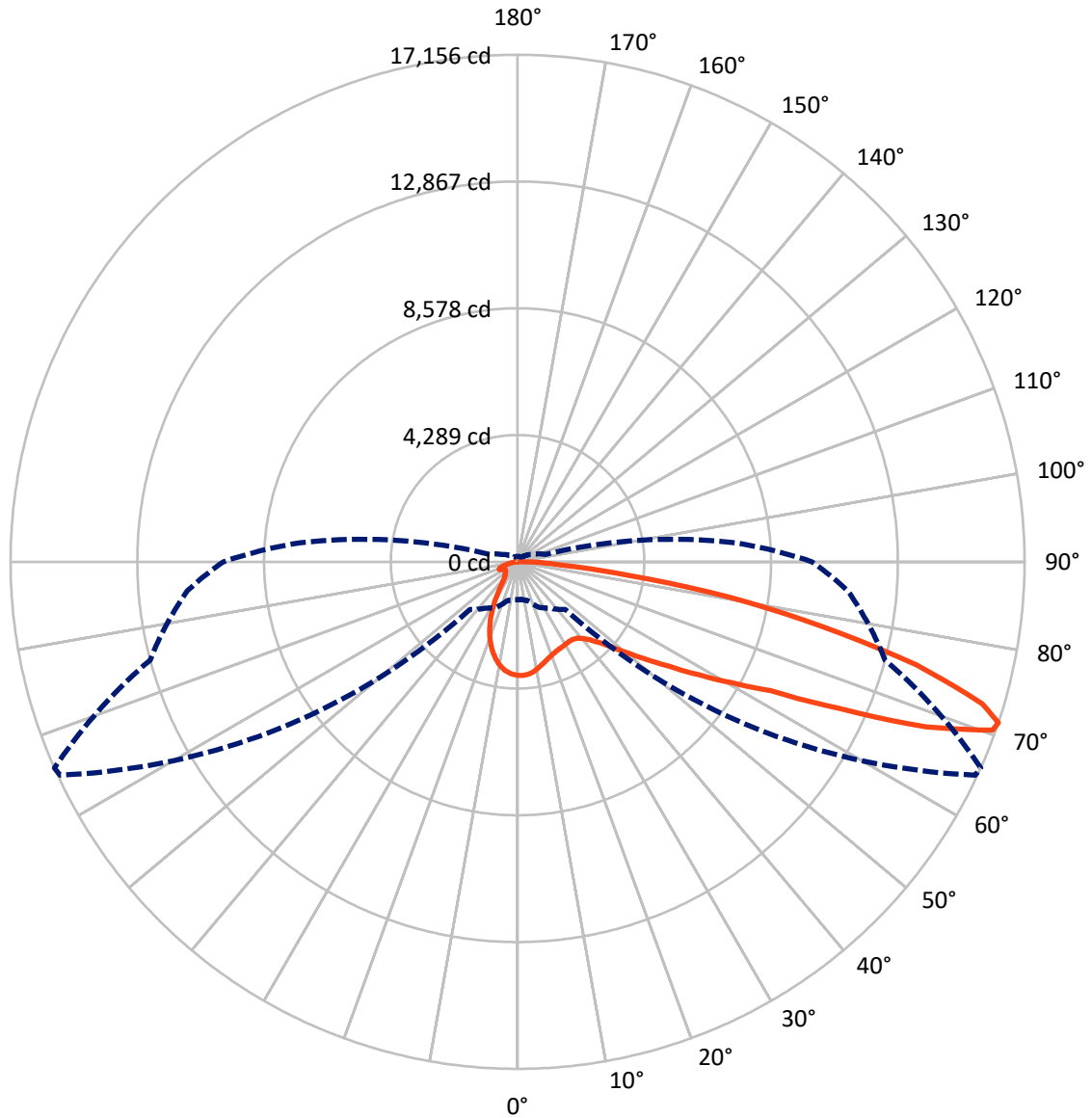
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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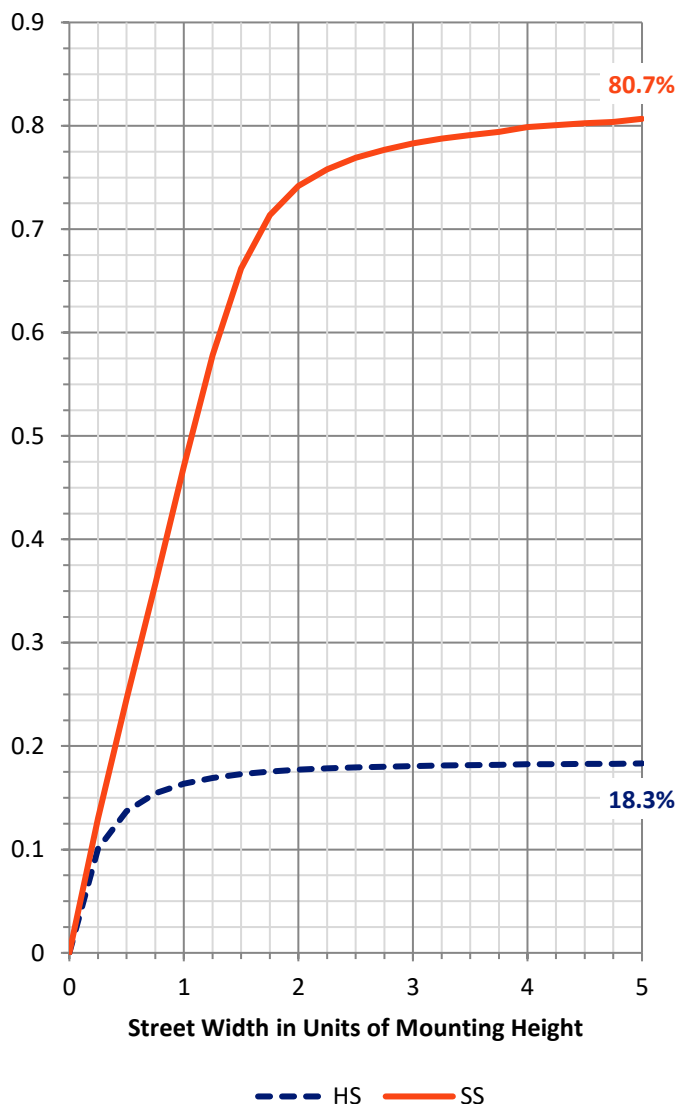
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3108.7	0.0	3108.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	13665.3	0.0	13665.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	16774.0	0.0	16774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.2	2.0
10°-20°	811.2	4.8
20°-30°	1089.7	6.5
30°-40°	1433.5	8.5
40°-50°	2085.4	12.4
50°-60°	3257.5	19.4
60°-70°	4080.6	24.3
70°-80°	3112.6	18.6
80°-90°	565.2	3.4
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°	16774.0	100.0
0°-180°	16774.0	100.0

Coefficient of Utilization

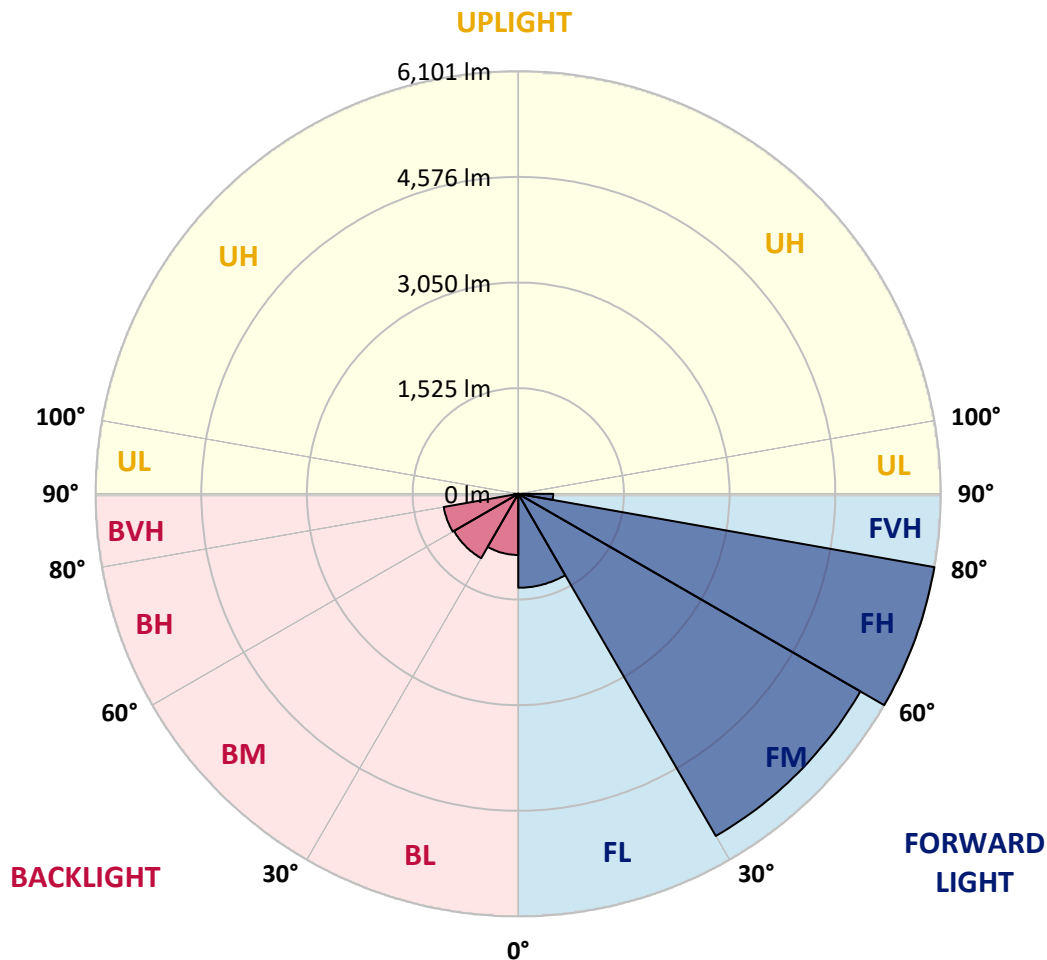


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.4	8.1			
FM (30°-60°)	5704.0	34.0			
FH (60°-80°)	6100.9	36.4			G3/7500
FVH (80°-90°)	504.0	3.0			G4/750
BL (0°-30°)	882.8	5.3	B2/1000		
BM (30°-60°)	1072.4	6.4	B2/2500		
BH (60°-80°)	1092.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	61.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6
2.5°	3771.4	3765.6	3782.9	3800.9	3807.9	3819.4	3836.8	3846.7	3846.1	3847.8	3842.0
5°	3521.2	3513.6	3548.4	3576.8	3631.2	3692.6	3767.3	3820.6	3821.7	3851.9	3860.0
7.5°	3284.3	3279.1	3319.1	3364.8	3427.9	3521.8	3642.8	3757.5	3764.4	3846.1	3874.5
10°	3094.3	3093.2	3132.0	3181.8	3255.3	3360.2	3499.2	3667.1	3677.5	3818.3	3876.8
12.5°	2946.1	2948.4	2982.0	3038.8	3116.4	3225.8	3376.4	3565.8	3582.6	3774.3	3863.4
15°	2836.6	2845.9	2873.1	2930.5	3006.9	3118.1	3272.7	3471.9	3497.4	3725.0	3855.9
17.5°	2774.1	2784.5	2803.6	2851.1	2922.9	3030.1	3176.6	3394.9	3418.1	3687.4	3856.5
20°	2755.6	2764.2	2775.2	2804.2	2865.0	2962.3	3100.7	3325.4	3350.3	3657.3	3862.3
22.5°	2792.0	2798.4	2799.6	2797.2	2834.3	2913.7	3045.7	3274.5	3301.1	3637.6	3866.3
25°	2870.2	2878.9	2872.5	2851.1	2838.9	2887.6	3017.3	3240.9	3267.5	3623.1	3858.2
27.5°	2987.8	2988.9	2983.7	2955.9	2898.6	2890.5	3008.6	3221.2	3246.7	3606.3	3841.4
30°	3147.6	3155.2	3145.9	3108.2	3014.4	2936.8	3019.1	3202.1	3225.2	3584.9	3814.2
32.5°	3334.7	3353.2	3352.6	3313.3	3178.9	3040.5	3061.9	3190.5	3208.4	3562.3	3781.2
35°	3528.7	3554.2	3601.7	3584.9	3418.7	3204.4	3144.2	3209.0	3221.2	3559.4	3758.0
37.5°	3730.2	3755.7	3853.6	3898.8	3704.2	3438.9	3273.9	3274.5	3280.3	3594.7	3756.3
40°	3941.1	3968.3	4115.4	4232.9	4074.3	3736.0	3483.0	3411.1	3404.8	3681.6	3790.5
42.5°	4236.4	4260.7	4437.4	4587.4	4484.9	4116.5	3771.9	3621.9	3608.6	3851.9	3899.9
45°	4610.0	4630.8	4818.5	4978.9	4926.2	4550.9	4135.1	3912.1	3909.8	4135.6	4121.7
47.5°	5054.2	5070.4	5238.9	5394.1	5413.2	5050.7	4591.4	4359.8	4322.1	4524.8	4465.2
50°	5516.9	5534.8	5649.5	5816.3	5958.2	5719.6	5178.7	4908.2	4857.8	5038.5	4951.7
52.5°	5823.3	5847.0	5946.6	6158.0	6570.9	6452.8	5873.1	5573.1	5496.6	5661.1	5594.5
55°	5686.6	5739.9	5892.2	6231.0	7060.9	7572.8	6729.6	6348.5	6262.2	6398.9	6359.5
57.5°	5065.2	5138.1	5346.0	5869.0	7129.8	8559.7	8024.6	7261.8	7201.0	7161.7	7179.6
60°	3929.5	3999.5	4257.3	4938.9	6649.7	9280.2	9973.4	8387.7	8299.7	7927.3	7943.5
62.5°	2781.0	2745.7	2922.3	3421.0	5403.4	9364.7	12190.9	9893.5	9603.9	8735.8	8664.5
65°	2120.8	2112.7	2192.0	2350.7	3272.7	8352.9	13511.9	12424.3	11972.0	9686.7	9518.8
67.5°	1742.6	1728.2	1806.3	2037.4	2107.5	5388.9	13540.9	15360.5	14916.3	10870.5	10506.8
70°	1432.8	1416.6	1489.5	1787.8	1947.7	2733.0	11396.3	17080.0	17056.3	12369.3	11252.7
71°	1284.5	1273.0	1360.4	1691.7	1913.5	2277.8	9839.6	17084.7	17155.9	12876.6	11208.7
72.5°	1045.9	1050.0	1142.6	1505.8	1888.0	2011.4	7231.7	16288.3	16438.9	13360.2	10808.5
75°	695.0	698.4	820.1	1158.3	1830.7	1967.9	3974.6	13667.7	13944.6	13070.6	9862.8
77.5°	466.8	465.6	548.4	794.6	1595.0	1967.9	2330.5	10222.4	10526.5	10400.2	7603.5
80°	321.4	319.1	377.6	548.4	1207.5	1991.7	1801.7	7164.0	7256.1	5616.5	3090.3
82.5°	196.9	198.6	246.7	387.4	821.8	1792.4	1700.9	3906.3	3806.1	1575.3	772.0
85°	112.9	112.4	157.5	262.4	527.6	1512.7	1658.7	1681.2	1542.3	474.3	279.1
87.5°	40.5	43.4	84.6	145.4	302.3	1053.5	1407.3	874.5	788.2	214.3	126.3
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°	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6	3842.6
2.5°	3838.0	3841.4	3837.4	3814.2	3794.5	3762.7	3744.7	3719.8	3712.3	3708.8	3718.1
5°	3852.4	3853.6	3819.4	3758.6	3690.3	3609.8	3551.9	3480.6	3447.0	3432.6	3441.8
7.5°	3865.8	3860.6	3785.8	3669.4	3543.2	3403.0	3278.5	3164.4	3097.8	3070.6	3072.9
10°	3867.5	3845.5	3725.6	3545.5	3349.7	3144.2	2953.0	2777.0	2665.8	2593.4	2615.4
12.5°	3849.5	3812.5	3637.0	3385.1	3113.5	2833.2	2574.9	2310.8	2152.1	2078.5	2080.9
15°	3835.6	3768.5	3528.1	3196.3	2831.4	2460.2	2107.5	1797.1	1628.0	1552.7	1517.3
17.5°	3824.1	3721.0	3401.9	2983.7	2498.4	2027.6	1603.6	1326.8	1234.1	1212.1	1202.9
20°	3807.9	3670.6	3261.1	2737.6	2119.1	1543.4	1171.0	1034.3	1034.9	1060.4	1063.9
22.5°	3785.3	3613.3	3111.1	2461.3	1711.9	1124.1	917.9	878.6	918.5	967.2	975.9
25°	3751.7	3545.5	2944.4	2156.1	1305.4	864.1	784.2	782.4	831.1	882.0	889.6
27.5°	3704.2	3456.9	2759.0	1828.3	962.0	734.4	702.5	714.7	750.6	787.6	790.5
30°	3640.5	3353.8	2554.6	1482.6	754.0	653.8	650.4	661.4	683.4	709.4	711.8
32.5°	3570.4	3249.0	2336.3	1147.9	645.7	610.4	613.9	619.1	629.5	640.0	642.3
35°	3506.7	3141.8	2112.7	872.2	594.2	582.0	579.7	578.6	579.7	576.2	576.8
37.5°	3465.6	3053.2	1879.9	694.4	564.7	557.1	550.2	541.5	531.7	525.9	527.0
40°	3450.5	2987.2	1644.2	600.0	540.3	535.1	521.8	503.3	491.7	488.2	488.2
42.5°	3491.1	2953.0	1416.6	552.5	520.1	511.4	489.4	467.9	459.3	458.7	458.1
45°	3615.0	2966.9	1200.0	526.4	501.5	484.7	455.8	437.8	432.0	433.2	432.6
47.5°	3837.4	3054.4	1014.7	509.1	483.0	461.0	428.6	414.1	407.1	407.1	407.7
50°	4215.6	3258.8	867.0	494.6	467.4	439.0	408.9	390.9	381.7	381.1	381.1
52.5°	4766.3	3624.8	774.9	482.4	450.0	419.3	389.2	366.6	355.6	353.3	352.1
55°	5456.7	4149.5	749.4	474.3	426.8	397.9	365.4	342.9	330.7	325.5	324.9
57.5°	6228.7	4787.8	799.8	464.5	403.1	372.4	339.4	317.9	305.2	298.8	298.3
60°	7009.9	5484.5	1005.4	450.6	383.4	344.6	312.7	293.0	280.3	273.4	272.2
62.5°	7792.3	6218.8	1425.3	449.4	369.5	317.9	285.5	268.7	256.6	249.0	247.3
65°	8674.9	7022.7	1902.5	480.1	364.9	293.6	257.7	244.4	234.0	227.0	226.4
67.5°	9688.4	7930.2	1856.7	543.2	380.5	271.6	231.7	221.2	213.7	207.9	207.3
70°	10163.9	7788.3	1154.2	587.8	402.5	250.2	206.8	199.2	193.4	189.4	187.6
71°	9964.7	7395.0	967.7	582.6	400.2	240.9	196.9	191.1	185.3	181.9	180.1
72.5°	9421.5	6744.1	807.3	542.1	374.1	224.1	184.2	178.4	173.2	169.1	168.0
75°	8454.3	6023.1	646.3	433.2	298.3	189.4	161.6	155.2	151.2	148.8	146.5
77.5°	6214.8	4298.4	499.8	342.3	219.5	154.6	137.8	133.2	129.1	125.7	123.9
80°	2380.8	1665.0	336.5	255.4	161.0	122.2	111.2	108.9	104.8	102.5	102.5
82.5°	641.1	497.5	179.5	154.6	107.7	89.2	85.1	84.0	80.5	75.9	76.4
85°	259.5	219.5	100.8	85.1	66.0	52.7	57.3	57.9	53.9	48.1	48.6
87.5°	114.1	93.2	56.2	37.6	29.0	20.3	26.1	26.1	23.7	19.7	18.0
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)