

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: P528686

Luminaire Tested: **GALN-SA3D-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18341 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

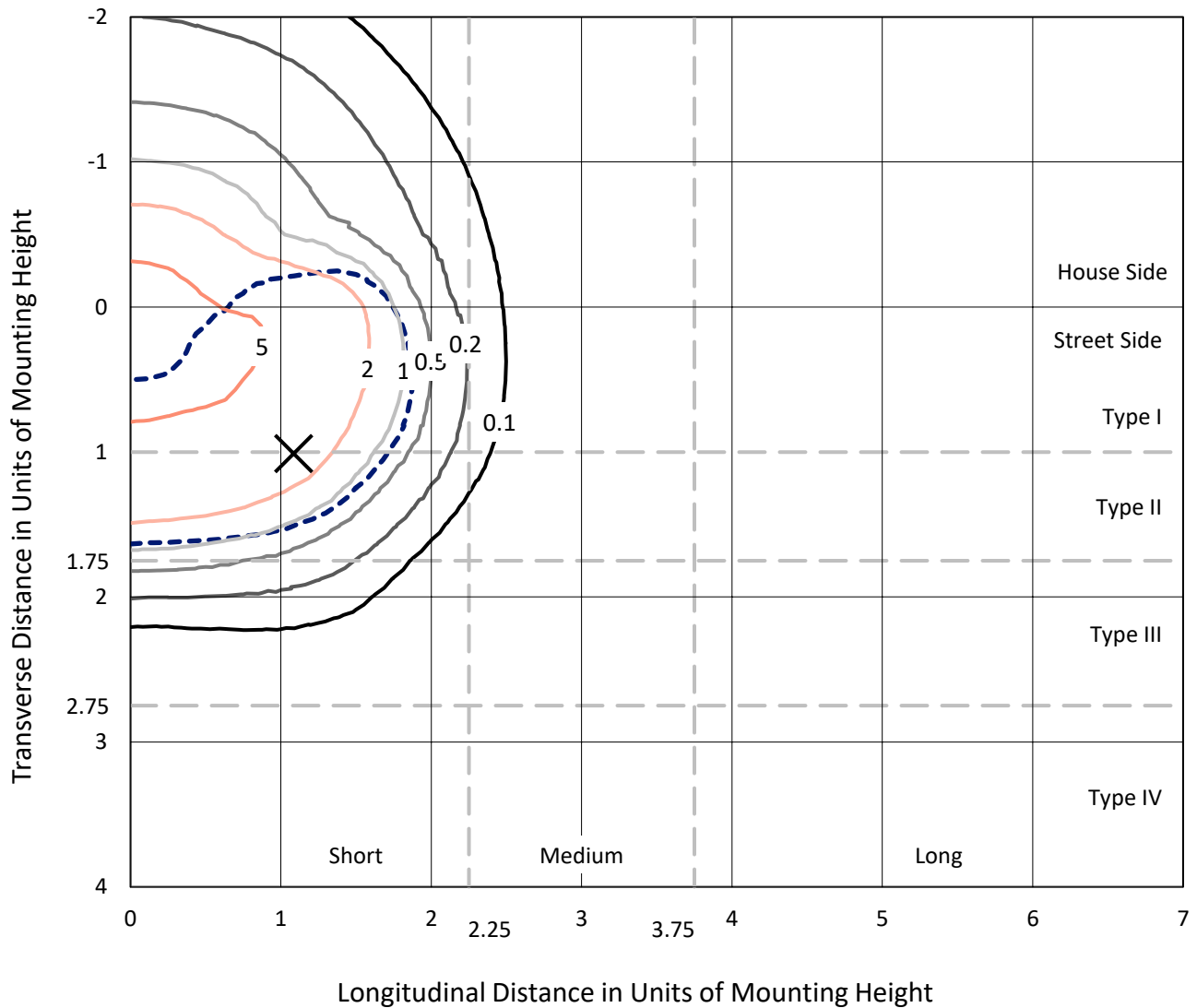
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

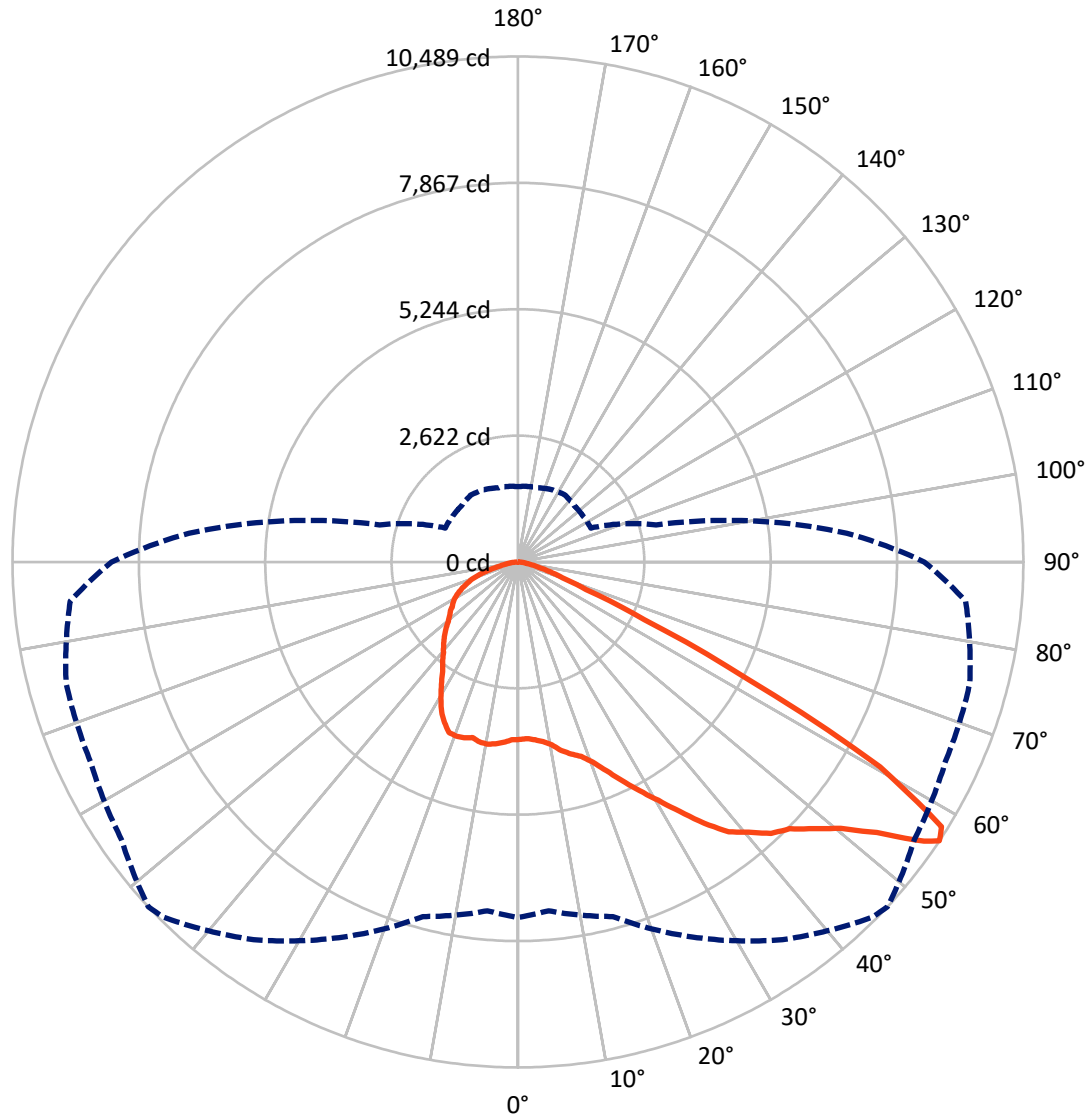
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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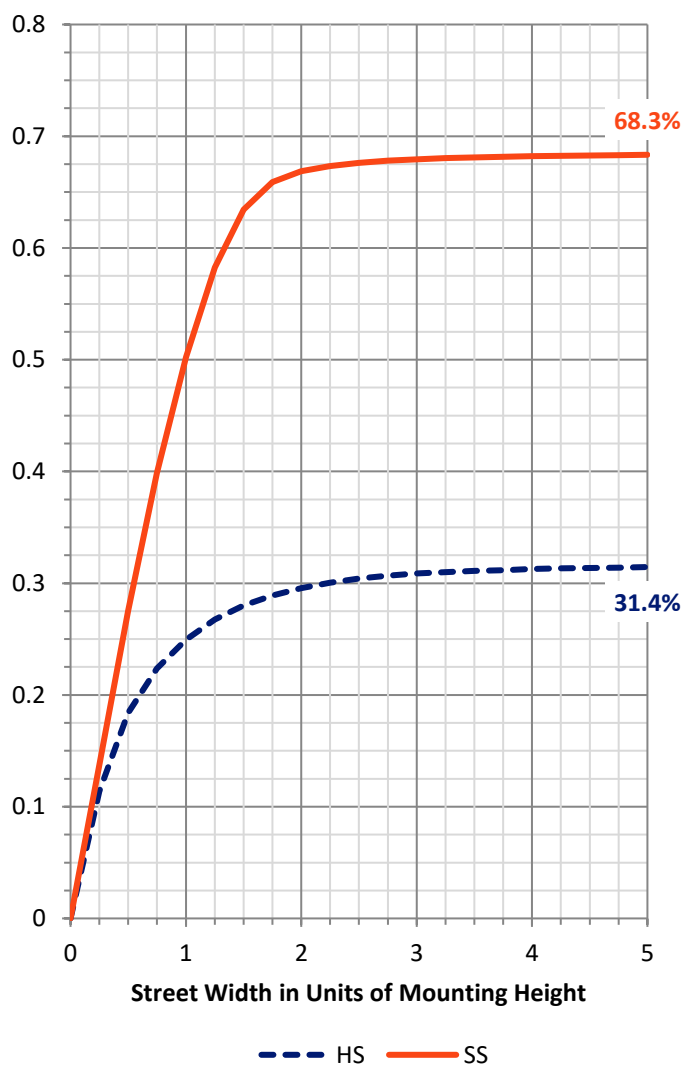
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5812.0	0.0	5812.0
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	12529.0	0.0	12529.0
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	18341.0	0.0	18341.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	359.0	2.0
10°-20°	1132.4	6.2
20°-30°	2001.8	10.9
30°-40°	3006.6	16.4
40°-50°	4126.2	22.5
50°-60°	4915.9	26.8
60°-70°	2103.7	11.5
70°-80°	595.3	3.2
80°-90°	100.2	0.5
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°	18341.0	100.0
0°-180°	18341.0	100.0

**Coefficient of Utilization**



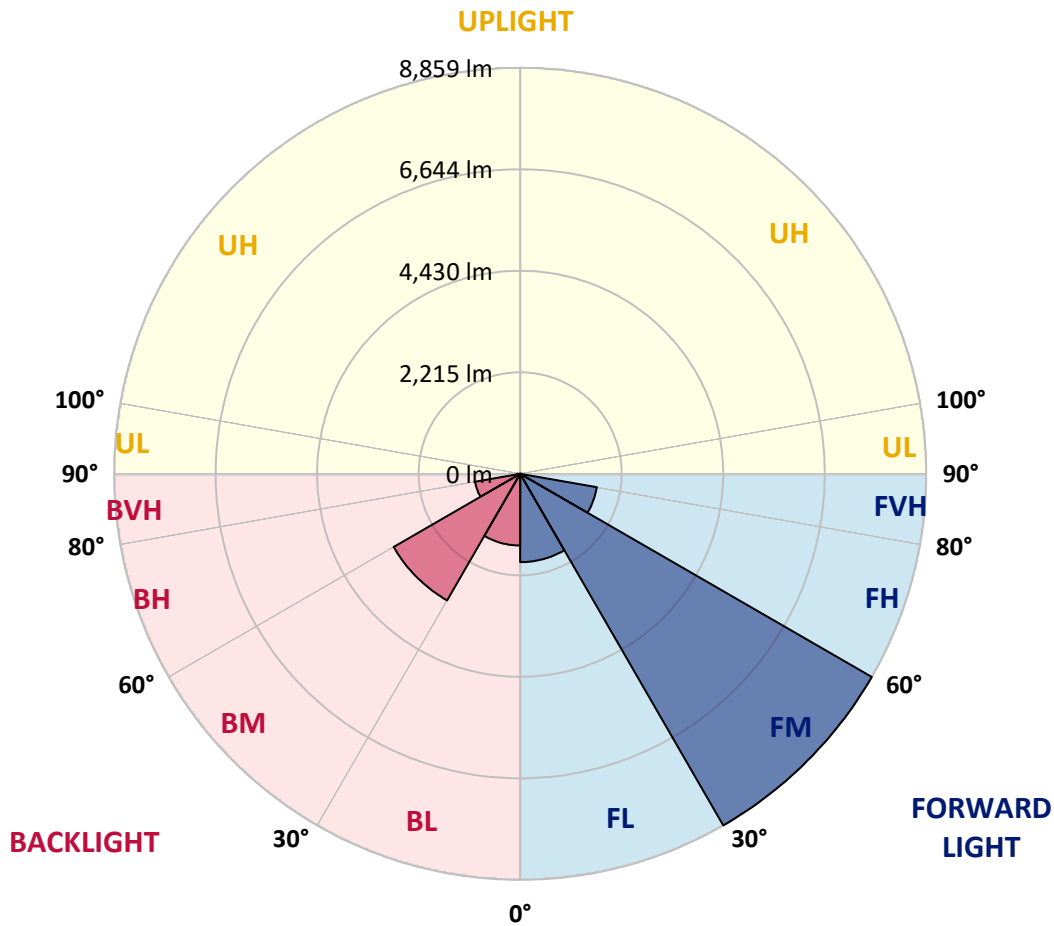
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1928.3	10.5			
FM (30°-60°)	8859.1	48.3			
FH (60°-80°)	1699.0	9.3			G1/1800
FVH (80°-90°)	42.5	0.2			G1/100
BL (0°-30°)	1564.8	8.5	B3/2500		
BM (30°-60°)	3189.5	17.4	B3/5000		
BH (60°-80°)	1000.0	5.5	B2/1000		G2/1000
BVH (80°-90°)	57.7	0.3			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°	47°	55°	65°	75°	85°
0°	3684.1	3684.1	3684.1	3684.1	3684.1	3684.1	3684.1	3684.1	3684.1	3684.1	3684.1
2.5°	3670.1	3663.1	3658.4	3695.8	3681.8	3684.1	3670.1	3684.1	3693.5	3672.5	3702.9
5°	3663.1	3684.1	3665.4	3677.1	3707.5	3698.2	3707.5	3735.6	3728.6	3721.6	3712.2
7.5°	3728.6	3730.9	3745.0	3749.6	3759.0	3749.6	3763.7	3789.4	3782.4	3742.6	3747.3
10°	3822.2	3826.8	3829.2	3854.9	3871.3	3873.6	3857.2	3833.9	3831.5	3885.3	3847.9
12.5°	3929.8	3918.1	3946.1	3955.5	3974.2	3995.3	4016.3	3967.2	3997.6	3999.9	3955.5
15°	4086.5	4098.2	4065.4	4065.4	4072.4	4074.8	4133.3	4109.9	4105.2	4079.5	4098.2
17.5°	4320.4	4240.9	4238.5	4205.8	4201.1	4219.8	4240.9	4259.6	4322.7	4271.3	4170.7
20°	4491.2	4509.9	4442.0	4402.3	4409.3	4451.4	4430.3	4514.5	4559.0	4474.8	4376.5
22.5°	4792.9	4729.7	4746.1	4657.2	4664.3	4708.7	4706.4	4792.9	4818.6	4685.3	4542.6
25°	4996.4	4980.0	4994.1	4923.9	4933.3	4968.3	5024.5	5167.2	5125.1	4977.7	4647.9
27.5°	5293.5	5260.7	5249.0	5223.3	5213.9	5307.5	5373.0	5525.1	5494.6	5279.4	4835.0
30°	5597.6	5576.5	5588.2	5483.0	5520.4	5719.2	5737.9	5946.1	5932.1	5553.1	5043.2
32.5°	5808.1	5819.8	5840.8	5782.4	5948.4	6107.5	6170.7	6406.9	6418.6	6023.3	5445.5
35°	6147.3	6107.5	6119.2	6187.0	6264.2	6554.3	6657.2	6813.9	6912.2	6516.9	5831.5
37.5°	6360.1	6402.2	6353.1	6460.7	6661.9	7010.4	7104.0	7265.4	7368.3	7003.4	6357.8
40°	6692.3	6624.5	6659.5	6736.7	6942.6	7396.4	7370.6	7536.7	7569.5	7417.4	6849.0
42.5°	7050.2	7017.4	6968.3	7143.7	7316.8	7646.7	7698.1	7620.9	7787.0	7822.1	7550.8
45°	7478.2	7518.0	7525.0	7529.7	7681.7	7969.5	7899.3	7831.4	8023.3	8278.2	7985.8
47.5°	7875.9	7749.6	7840.8	7967.1	8182.3	8184.7	8266.5	8105.1	8308.6	8535.5	8378.8
50°	8009.2	7948.4	8070.0	8308.6	8640.8	8675.9	8685.2	8456.0	8561.3	8741.4	8514.5
52.5°	7957.8	7936.7	8247.8	8617.4	9103.9	9281.7	9328.5	9045.5	9103.9	9022.1	8813.9
55°	7712.2	7775.3	8088.8	8842.0	9588.1	10137.8	10226.7	9868.8	9496.9	9560.1	9330.8
56°	7375.3	7265.4	7616.2	8587.0	9567.1	10416.2	10488.7	10041.9	9789.3	9707.4	9326.2
57.5°	6257.2	6114.5	6575.3	7726.2	9036.1	10310.9	10364.7	10114.5	9740.2	9574.1	8645.5
60°	3663.1	3733.3	4318.1	5328.6	6970.6	8453.7	8633.8	8816.2	8565.9	7822.1	6435.0
62.5°	1768.4	1723.9	2142.7	3054.9	4247.9	5396.4	5342.6	5854.9	6135.6	5557.8	4063.1
65°	926.3	921.6	1169.6	1667.8	2334.5	2835.0	2884.2	3160.2	3546.1	2863.1	2063.1
67.5°	680.7	699.4	823.4	1171.9	1501.7	1532.1	1525.1	1663.1	1700.6	1438.6	1267.8
70°	533.3	542.7	633.9	891.2	1118.1	1001.2	980.1	996.5	1106.4	1153.2	1097.1
72.5°	386.0	395.3	472.5	601.2	699.4	683.0	697.1	788.3	924.0	973.1	914.6
75°	257.3	264.3	306.4	367.2	414.0	446.8	472.5	577.8	704.1	732.2	704.1
77.5°	177.8	184.8	212.9	259.6	264.3	285.4	294.7	343.9	421.0	456.1	437.4
80°	100.6	100.6	114.6	133.3	163.7	191.8	196.5	236.3	271.3	294.7	299.4
82.5°	46.8	49.1	60.8	81.9	107.6	133.3	138.0	163.7	189.5	212.9	219.9
85°	23.4	25.7	35.1	49.1	65.5	79.5	77.2	79.5	84.2	79.5	81.9
87.5°	7.0	7.0	9.4	11.7	9.4	11.7	11.7	14.0	16.4	18.7	21.1
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°	3684.1	3684.1	3684.1	3684.1	3684.1	3684.1	3684.1	3684.1	3684.1	3684.1	3684.1
2.5°	3705.2	3712.2	3665.4	3709.9	3693.5	3691.2	3723.9	3719.2	3730.9	3726.3	3698.2
5°	3707.5	3691.2	3740.3	3695.8	3716.9	3761.3	3730.9	3801.1	3766.0	3789.4	3737.9
7.5°	3780.1	3784.7	3775.4	3794.1	3784.7	3805.8	3789.4	3805.8	3777.7	3780.1	3826.8
10°	3843.2	3829.2	3845.6	3822.2	3838.5	3831.5	3794.1	3782.4	3791.8	3780.1	3810.5
12.5°	3960.2	3934.4	3922.7	3894.7	3876.0	3805.8	3747.3	3714.6	3759.0	3766.0	3752.0
15°	4079.5	4081.8	4028.0	3964.8	3847.9	3742.6	3756.7	3768.4	3768.4	3787.1	3752.0
17.5°	4154.3	4154.3	4105.2	3978.9	3859.6	3798.8	3784.7	3747.3	3714.6	3709.9	3707.5
20°	4285.3	4245.5	4133.3	3976.5	3854.9	3826.8	3721.6	3632.7	3564.9	3541.5	3539.1
22.5°	4435.0	4334.4	4177.7	3981.2	3847.9	3808.1	3611.6	3478.3	3356.7	3305.2	3312.2
25°	4573.0	4411.6	4203.4	3960.2	3822.2	3630.3	3410.5	3225.7	3099.4	3057.3	3036.2
27.5°	4668.9	4493.5	4203.4	3978.9	3726.3	3431.5	3207.0	2970.7	2860.8	2832.7	2837.4
30°	4797.6	4596.4	4276.0	3939.1	3534.4	3174.2	2905.2	2750.8	2685.3	2661.9	2678.3
32.5°	5099.3	4865.4	4376.5	3843.2	3307.5	2916.9	2699.4	2612.8	2516.9	2470.1	2453.8
35°	5426.8	5120.4	4474.8	3681.8	3052.6	2683.0	2547.3	2467.8	2353.2	2301.7	2311.1
37.5°	5890.0	5447.9	4481.8	3415.1	2776.6	2552.0	2428.0	2304.1	2210.5	2131.0	2107.6
40°	6514.5	5894.6	4465.4	3134.5	2554.3	2397.6	2306.4	2152.0	2046.7	1990.6	2002.3
42.5°	7064.2	6418.6	4397.6	2816.3	2353.2	2292.4	2189.4	2037.4	1934.5	1876.0	1871.3
45°	7527.4	6804.6	4268.9	2545.0	2184.8	2175.4	2056.1	1939.1	1857.3	1803.5	1826.9
47.5°	7955.4	7115.7	4074.8	2273.6	2030.4	2049.1	1934.5	1862.0	1810.5	1761.4	1759.0
50°	8109.8	7111.0	3904.0	2049.1	1906.4	1897.0	1892.4	1815.2	1761.4	1719.3	1738.0
52.5°	8367.1	7190.5	3719.2	1894.7	1794.1	1796.5	1812.8	1756.7	1695.9	1670.1	1693.5
55°	8736.7	7202.2	3312.2	1714.6	1700.6	1716.9	1716.9	1679.5	1628.0	1607.0	1595.3
56°	8434.9	6853.7	2970.7	1667.8	1653.8	1653.8	1698.2	1656.1	1593.0	1576.6	1562.5
57.5°	7780.0	6004.6	2486.5	1611.7	1590.6	1623.4	1646.8	1602.3	1543.8	1520.4	1534.5
60°	5366.0	4063.1	1869.0	1490.0	1490.0	1543.8	1562.5	1497.1	1471.3	1469.0	1450.3
62.5°	3132.1	2367.2	1462.0	1380.1	1384.8	1429.2	1443.3	1405.8	1373.1	1412.8	1431.6
65°	1660.8	1412.8	1253.8	1263.1	1265.5	1300.6	1361.4	1359.0	1356.7	1368.4	1370.7
67.5°	1202.3	1174.2	1139.2	1129.8	1134.5	1160.2	1221.0	1267.8	1265.5	1237.4	1216.4
70°	1071.3	1031.6	1010.5	1012.8	994.1	1024.5	1073.7	1104.1	1050.3	1017.5	1003.5
72.5°	891.2	879.5	865.5	867.8	830.4	823.4	767.2	767.2	753.2	743.8	760.2
75°	680.7	676.0	683.0	671.3	631.6	589.5	556.7	526.3	479.5	460.8	451.5
77.5°	430.4	444.4	460.8	435.1	418.7	388.3	355.5	325.1	287.7	266.7	266.7
80°	292.4	304.1	315.8	311.1	292.4	264.3	238.6	205.8	180.1	163.7	161.4
82.5°	222.2	231.6	247.9	229.2	210.5	187.1	166.1	142.7	119.3	100.6	100.6
85°	79.5	91.2	100.6	109.9	117.0	119.3	102.9	84.2	67.8	53.8	51.5
87.5°	21.1	23.4	25.7	23.4	23.4	23.4	25.7	23.4	21.1	16.4	16.4
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)