

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: P529154

Luminaire Tested: **GALN-SA4B-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529154  
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-SA4B-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 800mA 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: 17878 lumens  
Efficiency: N/A  
Efficacy: 109.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

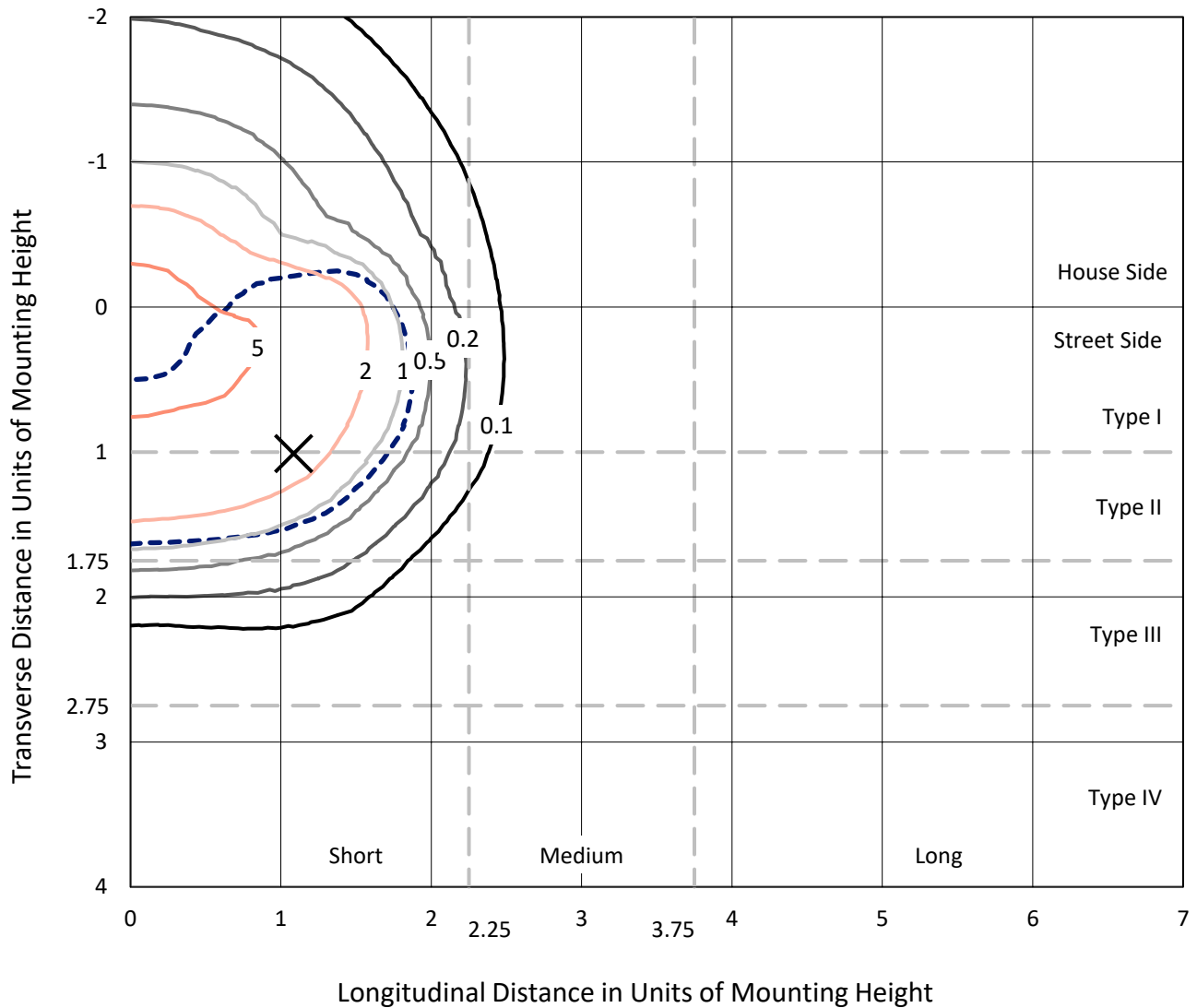
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

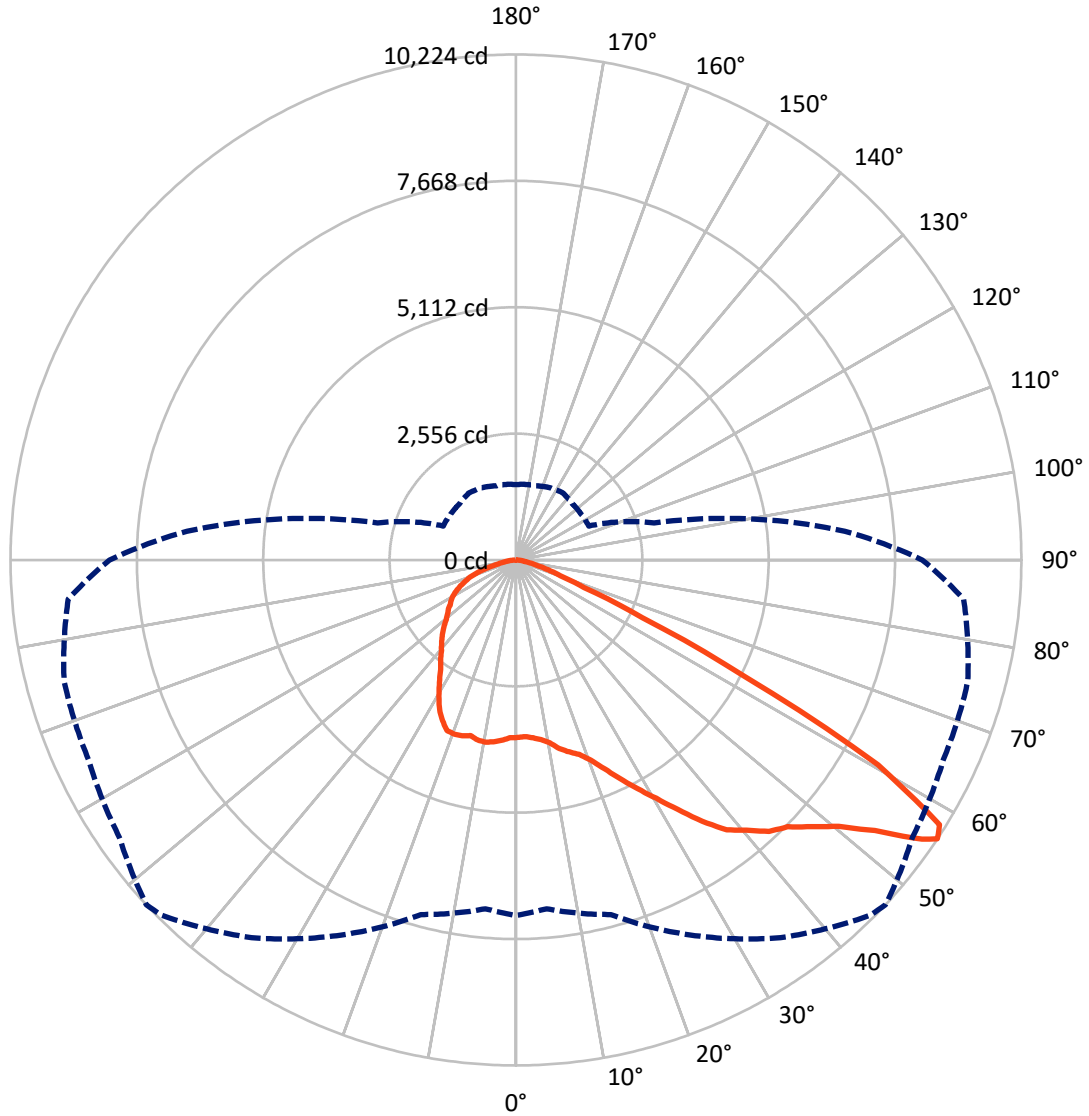
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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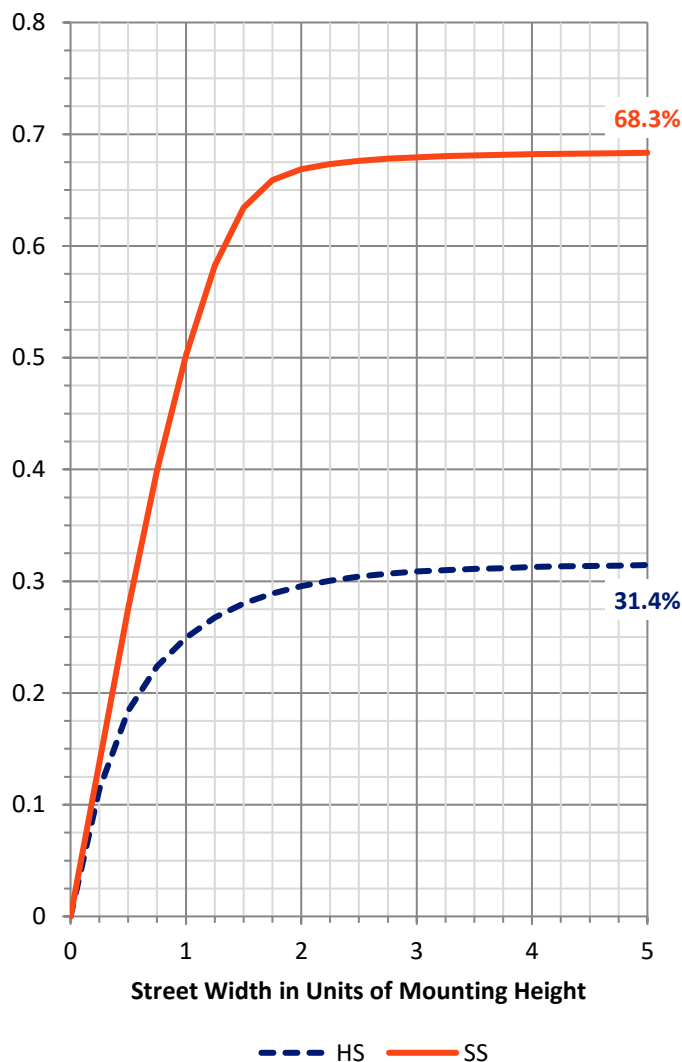
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5665.3	0.0	5665.3
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	12212.7	0.0	12212.7
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	17878.0	0.0	17878.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	349.9	2.0
10°-20°	1103.8	6.2
20°-30°	1951.2	10.9
30°-40°	2930.7	16.4
40°-50°	4022.1	22.5
50°-60°	4791.8	26.8
60°-70°	2050.6	11.5
70°-80°	580.3	3.2
80°-90°	97.7	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°	17878.0	100.0
0°-180°	17878.0	100.0

**Coefficient of Utilization**



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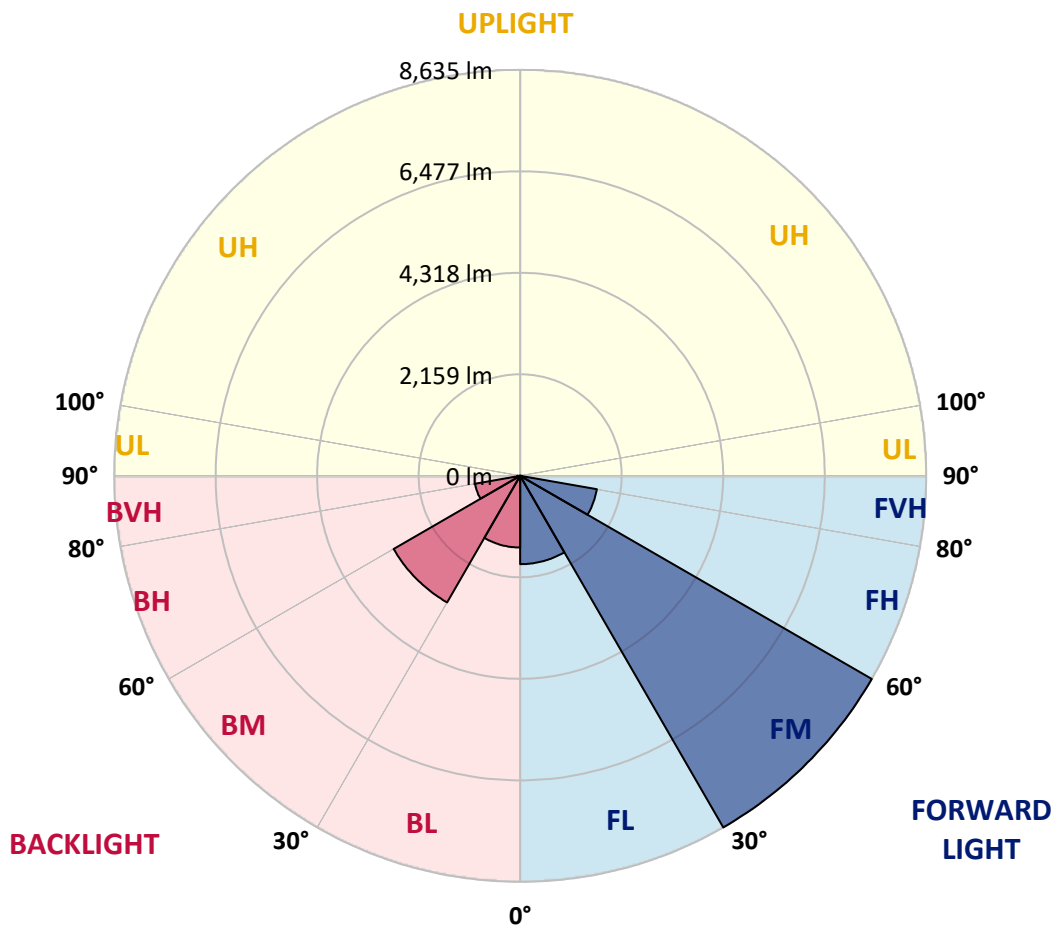
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1879.6	10.5			
FM (30°-60°)	8635.5	48.3			
FH (60°-80°)	1656.2	9.3			G1/1800
FVH (80°-90°)	41.4	0.2			G1/100
BL (0°-30°)	1525.3	8.5	B3/2500		
BM (30°-60°)	3109.0	17.4	B3/5000		
BH (60°-80°)	974.7	5.5	B2/1000		G2/1000
BVH (80°-90°)	56.2	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°	3591.1	3591.1	3591.1	3591.1	3591.1	3591.1	3591.1	3591.1	3591.1	3591.1	3591.1
2.5°	3577.5	3570.6	3566.1	3602.5	3588.9	3591.1	3577.5	3591.1	3600.3	3579.7	3609.4
5°	3570.6	3591.1	3572.9	3584.3	3613.9	3604.8	3613.9	3641.3	3634.5	3627.6	3618.5
7.5°	3634.5	3636.7	3650.4	3655.0	3664.1	3655.0	3668.7	3693.8	3686.9	3648.1	3652.7
10°	3725.7	3730.2	3732.5	3757.6	3773.6	3775.8	3759.9	3737.1	3734.8	3787.2	3750.8
12.5°	3830.6	3819.2	3846.5	3855.6	3873.9	3894.4	3914.9	3867.0	3896.7	3899.0	3855.6
15°	3983.3	3994.7	3962.8	3962.8	3969.6	3971.9	4028.9	4006.1	4001.6	3976.5	3994.7
17.5°	4211.3	4133.8	4131.5	4099.6	4095.0	4113.3	4133.8	4152.0	4213.6	4163.5	4065.4
20°	4377.8	4396.0	4329.9	4291.1	4298.0	4339.0	4318.5	4400.6	4443.9	4361.8	4266.1
22.5°	4671.9	4610.3	4626.3	4539.7	4546.5	4589.8	4587.5	4671.9	4697.0	4567.0	4427.9
25°	4870.3	4854.3	4868.0	4799.6	4808.7	4842.9	4897.6	5036.7	4995.7	4852.0	4530.5
27.5°	5159.9	5127.9	5116.5	5091.4	5082.3	5173.5	5237.4	5385.6	5355.9	5146.2	4713.0
30°	5456.3	5435.7	5447.1	5344.5	5381.0	5574.8	5593.1	5796.0	5782.3	5412.9	4915.9
32.5°	5661.5	5672.9	5693.4	5636.4	5798.3	5953.3	6014.9	6245.2	6256.6	5871.2	5308.1
35°	5992.1	5953.3	5964.7	6030.8	6106.1	6388.8	6489.1	6641.9	6737.7	6352.3	5684.3
37.5°	6199.6	6240.6	6192.7	6297.6	6493.7	6833.4	6924.6	7082.0	7182.3	6826.6	6197.3
40°	6523.3	6457.2	6491.4	6566.7	6767.3	7209.7	7184.6	7346.5	7378.4	7230.2	6676.1
42.5°	6872.2	6840.3	6792.4	6963.4	7132.1	7453.6	7503.8	7428.5	7590.4	7624.6	7360.1
45°	7289.5	7328.2	7335.1	7339.6	7487.8	7768.3	7699.9	7633.8	7820.7	8069.3	7784.2
47.5°	7677.1	7553.9	7642.9	7766.0	7975.8	7978.0	8057.8	7900.5	8098.9	8320.1	8167.3
50°	7807.0	7747.8	7866.3	8098.9	8422.7	8456.9	8466.0	8242.5	8345.1	8520.7	8299.5
52.5°	7756.9	7736.4	8039.6	8399.9	8874.1	9047.4	9093.0	8817.1	8874.1	8794.3	8591.4
55°	7517.5	7579.0	7884.6	8618.8	9346.1	9881.9	9968.6	9619.7	9257.2	9318.7	9095.3
56°	7189.1	7082.0	7424.0	8370.2	9325.6	10153.3	10223.9	9788.4	9542.2	9462.4	9090.7
57.5°	6099.2	5960.2	6409.3	7531.1	8808.0	10050.7	10103.1	9859.1	9494.3	9332.4	8427.2
60°	3570.6	3639.0	4209.1	5194.1	6794.7	8240.3	8415.8	8593.7	8349.7	7624.6	6272.5
62.5°	1723.8	1680.4	2088.6	2977.8	4140.6	5260.2	5207.7	5707.1	5980.7	5417.5	3960.5
65°	902.9	898.4	1140.0	1625.7	2275.5	2763.5	2811.4	3080.4	3456.6	2790.8	2011.0
67.5°	663.5	681.7	802.6	1142.3	1463.8	1493.5	1486.6	1621.1	1657.6	1402.3	1235.8
70°	519.9	529.0	617.9	868.7	1089.9	975.9	955.4	971.3	1078.5	1124.1	1069.4
72.5°	376.2	385.3	460.6	586.0	681.7	665.8	679.5	768.4	900.6	948.5	891.5
75°	250.8	257.7	298.7	358.0	403.6	435.5	460.6	563.2	686.3	713.7	686.3
77.5°	173.3	180.1	207.5	253.1	257.7	278.2	287.3	335.2	410.4	444.6	426.4
80°	98.0	98.0	111.7	130.0	159.6	187.0	191.5	230.3	264.5	287.3	291.9
82.5°	45.6	47.9	59.3	79.8	104.9	130.0	134.5	159.6	184.7	207.5	214.3
85°	22.8	25.1	34.2	47.9	63.8	77.5	75.2	77.5	82.1	77.5	79.8
87.5°	6.8	6.8	9.1	11.4	9.1	11.4	11.4	13.7	16.0	18.2	20.5
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°	3591.1	3591.1	3591.1	3591.1	3591.1	3591.1	3591.1	3591.1	3591.1	3591.1	3591.1
2.5°	3611.7	3618.5	3572.9	3616.2	3600.3	3598.0	3629.9	3625.3	3636.7	3632.2	3604.8
5°	3613.9	3598.0	3645.9	3602.5	3623.1	3666.4	3636.7	3705.2	3671.0	3693.8	3643.6
7.5°	3684.6	3689.2	3680.1	3698.3	3689.2	3709.7	3693.8	3709.7	3682.4	3684.6	3730.2
10°	3746.2	3732.5	3748.5	3725.7	3741.6	3734.8	3698.3	3686.9	3696.0	3684.6	3714.3
12.5°	3860.2	3835.1	3823.7	3796.4	3778.1	3709.7	3652.7	3620.8	3664.1	3671.0	3657.3
15°	3976.5	3978.8	3926.3	3864.8	3750.8	3648.1	3661.8	3673.2	3673.2	3691.5	3657.3
17.5°	4049.4	4049.4	4001.6	3878.4	3762.2	3702.9	3689.2	3652.7	3620.8	3616.2	3613.9
20°	4177.1	4138.4	4028.9	3876.2	3757.6	3730.2	3627.6	3541.0	3474.9	3452.1	3449.8
22.5°	4323.1	4225.0	4072.2	3880.7	3750.8	3712.0	3520.5	3390.5	3271.9	3221.8	3228.6
25°	4457.6	4300.3	4097.3	3860.2	3725.7	3538.7	3324.4	3144.2	3021.1	2980.1	2959.6
27.5°	4551.1	4380.1	4097.3	3878.4	3632.2	3344.9	3126.0	2895.7	2788.6	2761.2	2765.8
30°	4676.5	4480.4	4168.0	3839.7	3445.2	3094.1	2831.9	2681.4	2617.5	2594.7	2610.7
32.5°	4970.6	4742.6	4266.1	3746.2	3224.1	2843.3	2631.2	2546.9	2453.4	2407.8	2391.8
35°	5289.8	4991.1	4361.8	3588.9	2975.5	2615.3	2483.0	2405.5	2293.8	2243.6	2252.7
37.5°	5741.3	5310.3	4368.7	3328.9	2706.5	2487.6	2366.7	2245.9	2154.7	2077.2	2054.4
40°	6350.1	5745.8	4352.7	3055.3	2489.9	2337.1	2248.2	2097.7	1995.1	1940.4	1951.8
42.5°	6885.9	6256.6	4286.6	2745.2	2293.8	2234.5	2134.2	1986.0	1885.6	1828.6	1824.1
45°	7337.3	6632.8	4161.2	2480.7	2129.6	2120.5	2004.2	1890.2	1810.4	1758.0	1780.8
47.5°	7754.6	6936.0	3971.9	2216.3	1979.1	1997.4	1885.6	1815.0	1764.8	1716.9	1714.6
50°	7905.1	6931.5	3805.5	1997.4	1858.3	1849.2	1844.6	1769.4	1716.9	1675.9	1694.1
52.5°	8155.9	7009.0	3625.3	1846.9	1748.8	1751.1	1767.1	1712.4	1653.1	1628.0	1650.8
55°	8516.1	7020.4	3228.6	1671.3	1657.6	1673.6	1673.6	1637.1	1586.9	1566.4	1555.0
56°	8222.0	6680.7	2895.7	1625.7	1612.0	1612.0	1655.3	1614.3	1552.7	1536.8	1523.1
57.5°	7583.6	5853.0	2423.7	1571.0	1550.5	1582.4	1605.2	1561.9	1504.9	1482.1	1495.7
60°	5230.5	3960.5	1821.8	1452.4	1452.4	1504.9	1523.1	1459.3	1434.2	1431.9	1413.7
62.5°	3053.0	2307.5	1425.1	1345.3	1349.8	1393.1	1406.8	1370.3	1338.4	1377.2	1395.4
65°	1618.9	1377.2	1222.1	1231.3	1233.5	1267.7	1327.0	1324.7	1322.5	1333.9	1336.1
67.5°	1172.0	1144.6	1110.4	1101.3	1105.8	1130.9	1190.2	1235.8	1233.5	1206.2	1185.6
70°	1044.3	1005.5	985.0	987.3	969.0	998.7	1046.6	1076.2	1023.8	991.8	978.2
72.5°	868.7	857.3	843.6	845.9	809.4	802.6	747.9	747.9	734.2	725.1	741.0
75°	663.5	658.9	665.8	654.4	615.6	574.6	542.7	513.0	467.4	449.2	440.1
77.5°	419.5	433.2	449.2	424.1	408.1	378.5	346.6	316.9	280.5	259.9	259.9
80°	285.0	296.4	307.8	303.3	285.0	257.7	232.6	200.6	175.6	159.6	157.3
82.5°	216.6	225.7	241.7	223.4	205.2	182.4	161.9	139.1	116.3	98.0	98.0
85°	77.5	88.9	98.0	107.2	114.0	116.3	100.3	82.1	66.1	52.4	50.2
87.5°	20.5	22.8	25.1	22.8	22.8	22.8	25.1	22.8	20.5	16.0	16.0
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)