

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: P530090

Luminaire Tested: **GALN-SA5B-735-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530090  
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-SA5B-735-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 22632 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

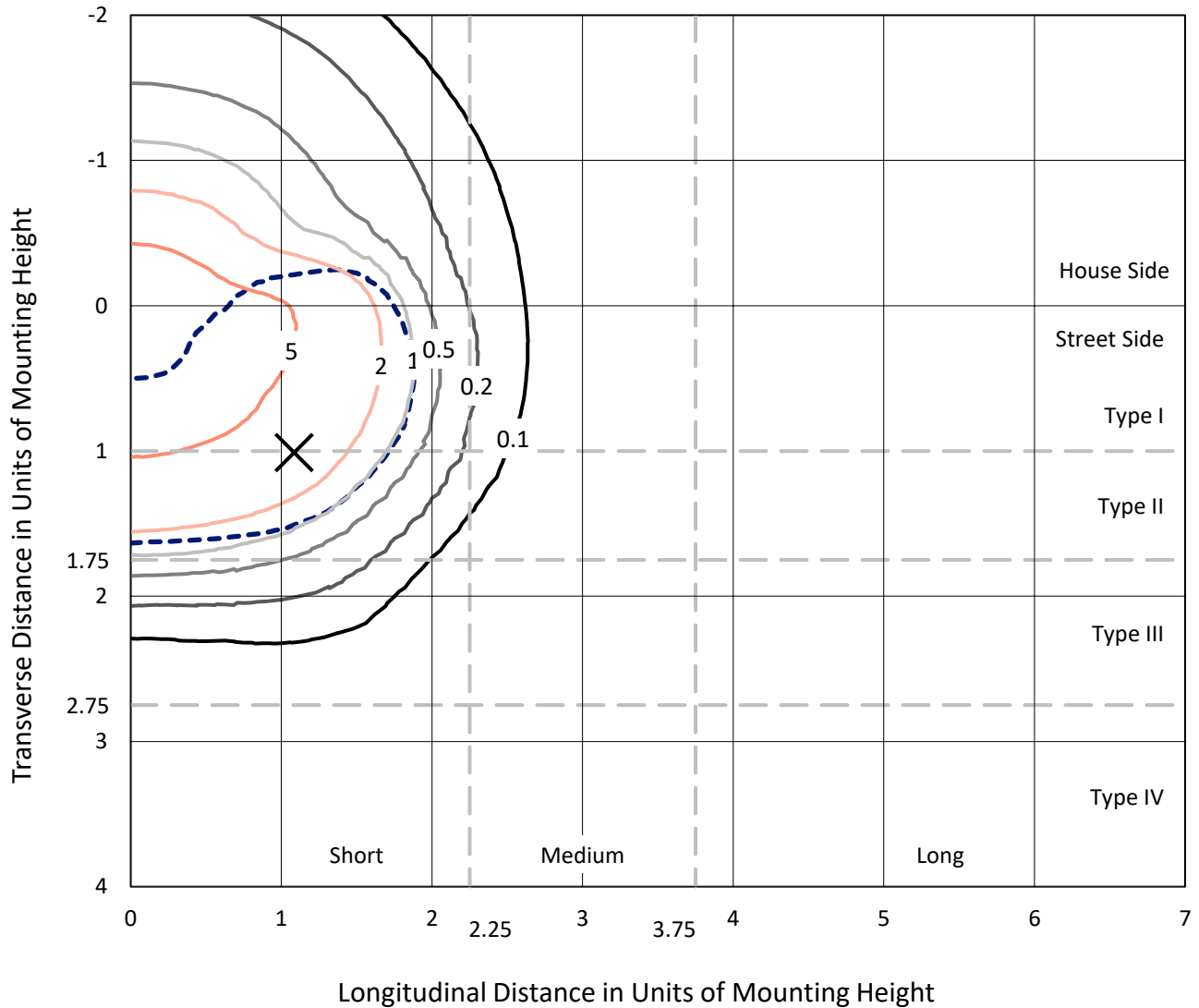
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

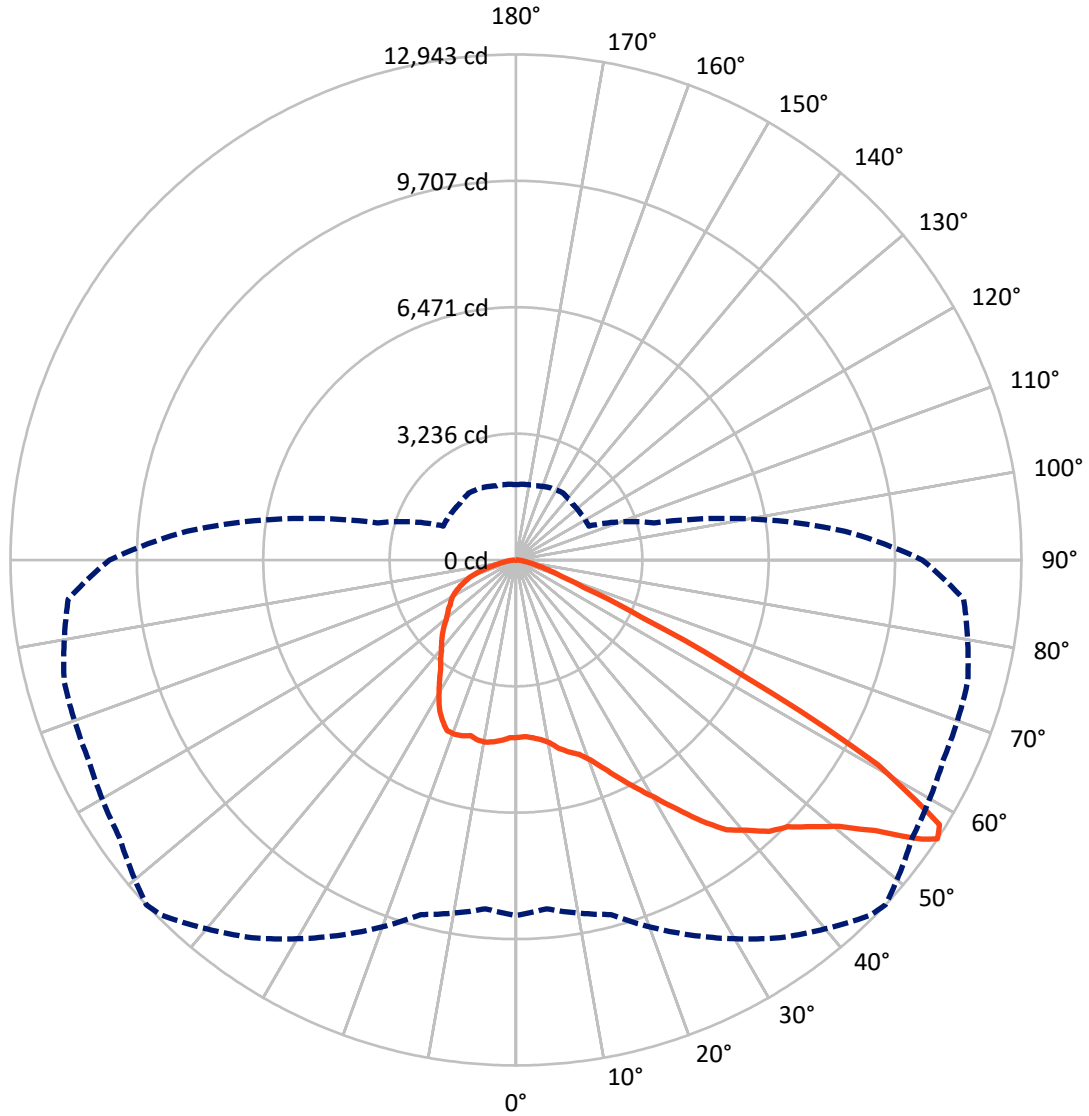
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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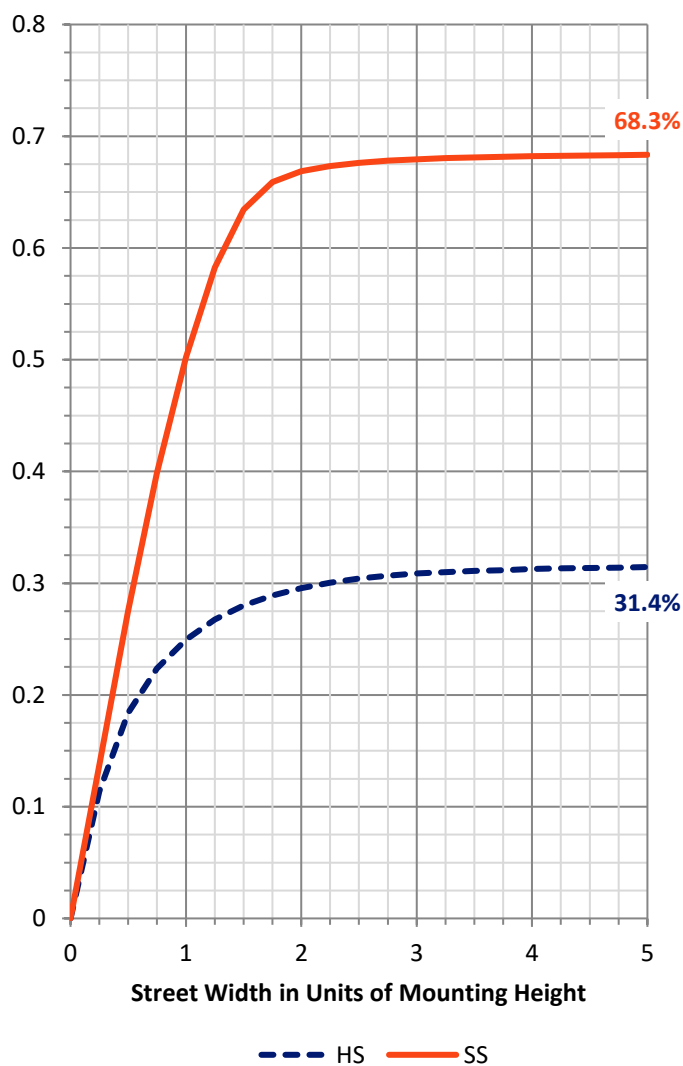
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7171.8	0.0	7171.8
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	15460.2	0.0	15460.2
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	22632.0	0.0	22632.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	443.0	2.0
10°-20°	1397.3	6.2
20°-30°	2470.1	10.9
30°-40°	3710.0	16.4
40°-50°	5091.6	22.5
50°-60°	6066.0	26.8
60°-70°	2595.9	11.5
70°-80°	734.6	3.2
80°-90°	123.6	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°	22632.0	100.0
0°-180°	22632.0	100.0

**Coefficient of Utilization**



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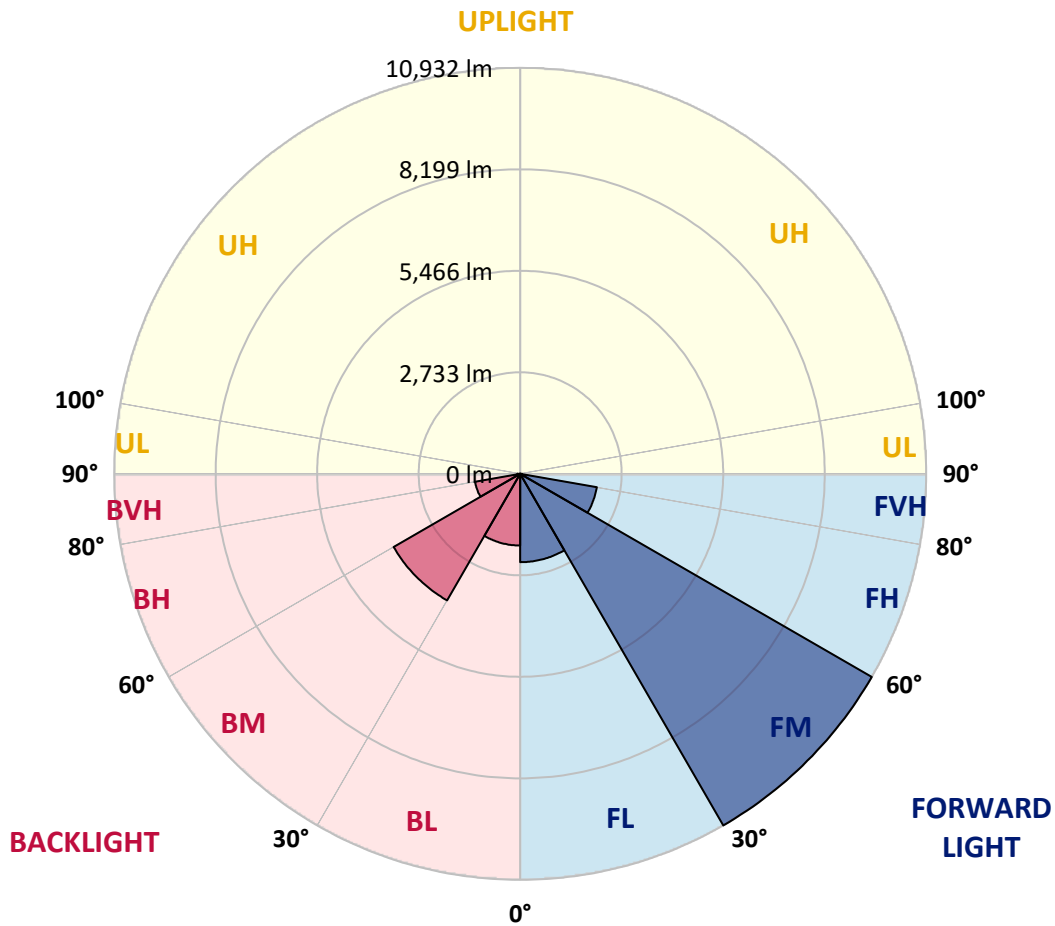
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2379.4	10.5			
FM (30°-60°)	10931.8	48.3			
FH (60°-80°)	2096.5	9.3			G2/5000
FVH (80°-90°)	52.5	0.2			G1/100
BL (0°-30°)	1930.9	8.5	B3/2500		
BM (30°-60°)	3935.8	17.4	B3/5000		
BH (60°-80°)	1233.9	5.5	B3/2500		G3/2500
BVH (80°-90°)	71.2	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4546.1	4546.1	4546.1	4546.1	4546.1	4546.1	4546.1	4546.1	4546.1	4546.1	4546.1
2.5°	4528.8	4520.1	4514.3	4560.5	4543.2	4546.1	4528.8	4546.1	4557.6	4531.6	4569.2
5°	4520.1	4546.1	4523.0	4537.4	4574.9	4563.4	4574.9	4609.6	4600.9	4592.3	4580.7
7.5°	4600.9	4603.8	4621.1	4626.9	4638.4	4626.9	4644.2	4676.0	4667.3	4618.2	4624.0
10°	4716.4	4722.2	4725.0	4756.8	4777.0	4779.9	4759.7	4730.8	4727.9	4794.3	4748.1
12.5°	4849.2	4834.7	4869.4	4880.9	4904.0	4930.0	4956.0	4895.3	4932.9	4935.7	4880.9
15°	5042.5	5057.0	5016.6	5016.6	5025.2	5028.1	5100.3	5071.4	5065.6	5033.9	5057.0
17.5°	5331.2	5233.0	5230.2	5189.7	5184.0	5207.1	5233.0	5256.1	5334.1	5270.6	5146.5
20°	5541.9	5565.0	5481.3	5432.2	5440.9	5492.8	5466.8	5570.8	5625.6	5521.7	5400.5
22.5°	5914.2	5836.3	5856.5	5746.8	5755.5	5810.3	5807.4	5914.2	5946.0	5781.5	5605.4
25°	6165.4	6145.1	6162.5	6075.9	6087.4	6130.7	6200.0	6376.1	6324.1	6142.3	5735.3
27.5°	6531.9	6491.5	6477.1	6445.3	6433.8	6549.2	6630.1	6817.7	6780.2	6514.6	5966.2
30°	6907.2	6881.2	6895.6	6765.7	6811.9	7057.2	7080.3	7337.2	7319.9	6852.3	6223.1
32.5°	7166.9	7181.4	7207.3	7135.2	7340.1	7536.4	7614.3	7905.9	7920.3	7432.5	6719.5
35°	7585.5	7536.4	7550.8	7634.5	7729.8	8087.7	8214.7	8408.1	8529.3	8041.5	7195.8
37.5°	7848.1	7900.1	7839.5	7972.2	8220.5	8650.5	8766.0	8965.2	9092.2	8641.9	7845.2
40°	8258.0	8174.3	8217.6	8312.8	8566.8	9126.8	9095.0	9300.0	9340.4	9152.8	8451.4
42.5°	8699.6	8659.2	8598.6	8815.1	9028.7	9435.6	9499.1	9403.9	9608.8	9652.1	9317.3
45°	9227.8	9276.9	9285.6	9291.3	9478.9	9834.0	9747.4	9663.7	9900.4	10215.0	9854.2
47.5°	9718.5	9562.6	9675.2	9831.1	10096.6	10099.5	10200.5	10001.4	10252.5	10532.5	10339.1
50°	9883.0	9808.0	9958.1	10252.5	10662.4	10705.7	10717.2	10434.3	10564.2	10786.5	10506.5
52.5°	9819.5	9793.6	10177.4	10633.5	11233.9	11453.2	11511.0	11161.7	11233.9	11132.8	10876.0
55°	9516.5	9594.4	9981.2	10910.6	11831.4	12509.7	12619.3	12177.7	11718.8	11796.7	11513.9
56°	9100.8	8965.2	9398.1	10596.0	11805.4	12853.1	12942.6	12391.3	12079.6	11978.6	11508.1
57.5°	7721.1	7545.1	8113.7	9533.8	11150.2	12723.3	12789.6	12480.8	12019.0	11814.0	10668.1
60°	4520.1	4606.7	5328.3	6575.2	8601.5	10431.5	10653.7	10878.8	10570.0	9652.1	7940.5
62.5°	2182.1	2127.3	2643.9	3769.6	5241.7	6658.9	6592.5	7224.7	7571.0	6858.1	5013.7
65°	1143.0	1137.2	1443.2	2058.0	2880.6	3498.3	3558.9	3899.5	4375.8	3533.0	2545.8
67.5°	839.9	863.0	1016.0	1446.1	1853.1	1890.6	1881.9	2052.2	2098.4	1775.1	1564.4
70°	658.1	669.6	782.2	1099.7	1379.7	1235.4	1209.4	1229.6	1365.3	1423.0	1353.7
72.5°	476.3	487.8	583.1	741.8	863.0	842.8	860.1	972.7	1140.1	1200.7	1128.6
75°	317.5	326.2	378.1	453.2	510.9	551.3	583.1	712.9	868.8	903.4	868.8
77.5°	219.4	228.0	262.7	320.4	326.2	352.1	363.7	424.3	519.6	562.8	539.8
80°	124.1	124.1	141.4	164.5	202.0	236.7	242.5	291.5	334.8	363.7	369.5
82.5°	57.7	60.6	75.0	101.0	132.8	164.5	170.3	202.0	233.8	262.7	271.3
85°	28.9	31.8	43.3	60.6	80.8	98.1	95.3	98.1	103.9	98.1	101.0
87.5°	8.7	8.7	11.5	14.4	11.5	14.4	14.4	17.3	20.2	23.1	26.0
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°	4546.1	4546.1	4546.1	4546.1	4546.1	4546.1	4546.1	4546.1	4546.1	4546.1	4546.1
2.5°	4572.1	4580.7	4523.0	4577.8	4557.6	4554.7	4595.2	4589.4	4603.8	4598.0	4563.4
5°	4574.9	4554.7	4615.4	4560.5	4586.5	4641.3	4603.8	4690.4	4647.1	4676.0	4612.5
7.5°	4664.4	4670.2	4658.7	4681.7	4670.2	4696.2	4676.0	4696.2	4661.5	4664.4	4722.2
10°	4742.4	4725.0	4745.2	4716.4	4736.6	4727.9	4681.7	4667.3	4678.9	4664.4	4701.9
12.5°	4886.7	4854.9	4840.5	4805.9	4782.8	4696.2	4624.0	4583.6	4638.4	4647.1	4629.8
15°	5033.9	5036.8	4970.4	4892.4	4748.1	4618.2	4635.6	4650.0	4650.0	4673.1	4629.8
17.5°	5126.2	5126.2	5065.6	4909.8	4762.6	4687.5	4670.2	4624.0	4583.6	4577.8	4574.9
20°	5287.9	5238.8	5100.3	4906.9	4756.8	4722.2	4592.3	4482.6	4398.9	4370.0	4367.1
22.5°	5472.6	5348.5	5155.1	4912.7	4748.1	4699.1	4456.6	4292.1	4142.0	4078.5	4087.1
25°	5642.9	5443.8	5186.9	4886.7	4716.4	4479.7	4208.4	3980.3	3824.5	3772.5	3746.5
27.5°	5761.3	5544.8	5186.9	4909.8	4598.0	4234.3	3957.3	3665.7	3530.1	3495.4	3501.2
30°	5920.0	5671.8	5276.3	4860.7	4361.4	3916.8	3584.9	3394.4	3313.6	3284.7	3304.9
32.5°	6292.4	6003.7	5400.5	4742.4	4081.4	3599.3	3330.9	3224.1	3105.8	3048.0	3027.8
35°	6696.4	6318.3	5521.7	4543.2	3766.8	3310.7	3143.3	3045.2	2903.7	2840.2	2851.8
37.5°	7268.0	6722.4	5530.3	4214.1	3426.2	3149.1	2996.1	2843.1	2727.6	2629.5	2600.6
40°	8038.6	7273.7	5510.1	3867.8	3151.9	2958.6	2846.0	2655.5	2525.6	2456.3	2470.8
42.5°	8716.9	7920.3	5426.4	3475.2	2903.7	2828.7	2701.7	2514.1	2387.1	2314.9	2309.1
45°	9288.4	8396.5	5267.7	3140.4	2695.9	2684.4	2537.1	2392.8	2291.8	2225.4	2254.3
47.5°	9816.6	8780.4	5028.1	2805.6	2505.4	2528.5	2387.1	2297.6	2234.1	2173.5	2170.6
50°	10007.2	8774.7	4817.4	2528.5	2352.4	2340.9	2335.1	2239.8	2173.5	2121.5	2144.6
52.5°	10324.7	8872.8	4589.4	2338.0	2213.9	2216.8	2237.0	2167.7	2092.6	2060.9	2089.8
55°	10780.7	8887.2	4087.1	2115.7	2098.4	2118.6	2118.6	2072.4	2008.9	1983.0	1968.5
56°	10408.4	8457.2	3665.7	2058.0	2040.7	2040.7	2095.5	2043.6	1965.6	1945.4	1928.1
57.5°	9600.2	7409.4	3068.2	1988.7	1962.8	2003.2	2032.0	1977.2	1905.0	1876.2	1893.5
60°	6621.4	5013.7	2306.2	1838.6	1838.6	1905.0	1928.1	1847.3	1815.5	1812.7	1789.6
62.5°	3864.9	2921.0	1804.0	1703.0	1708.7	1763.6	1780.9	1734.7	1694.3	1743.4	1766.5
65°	2049.3	1743.4	1547.1	1558.7	1561.5	1604.8	1679.9	1677.0	1674.1	1688.5	1691.4
67.5°	1483.6	1449.0	1405.7	1394.1	1399.9	1431.7	1506.7	1564.4	1561.5	1526.9	1500.9
70°	1322.0	1272.9	1246.9	1249.8	1226.7	1264.2	1324.9	1362.4	1296.0	1255.6	1238.3
72.5°	1099.7	1085.3	1068.0	1070.9	1024.7	1016.0	946.7	946.7	929.4	917.9	938.1
75°	839.9	834.2	842.8	828.4	779.3	727.4	687.0	649.4	591.7	568.6	557.1
77.5°	531.1	548.4	568.6	536.9	516.7	479.1	438.7	401.2	355.0	329.0	329.0
80°	360.8	375.2	389.7	383.9	360.8	326.2	294.4	254.0	222.3	202.0	199.2
82.5°	274.2	285.8	306.0	282.9	259.8	230.9	204.9	176.1	147.2	124.1	124.1
85°	98.1	112.6	124.1	135.7	144.3	147.2	127.0	103.9	83.7	66.4	63.5
87.5°	26.0	28.9	31.8	28.9	28.9	28.9	31.8	28.9	26.0	20.2	20.2
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)