

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: P383321

Luminaire Tested: **GLEON-SA6B-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6B-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32553.9 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

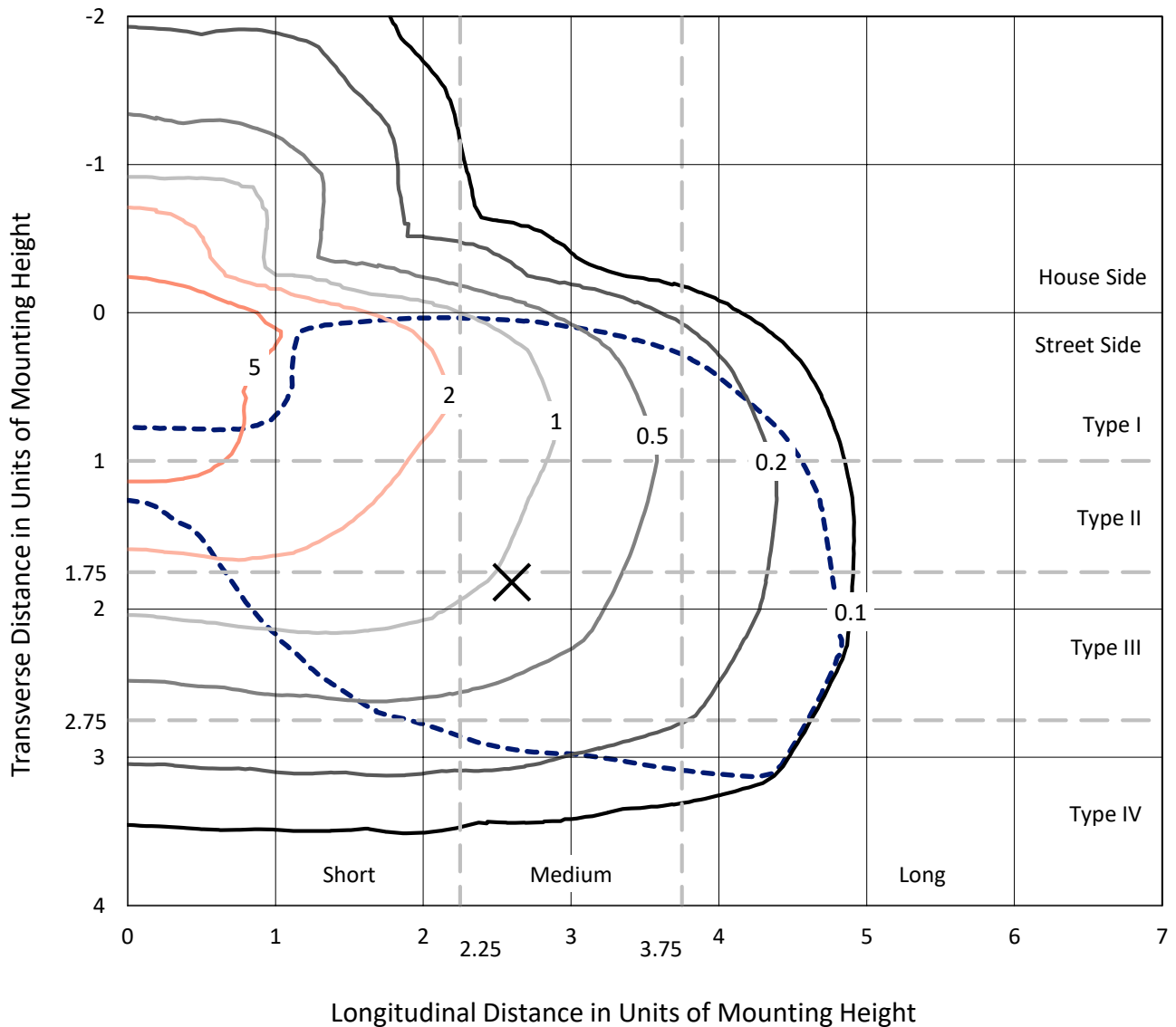
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

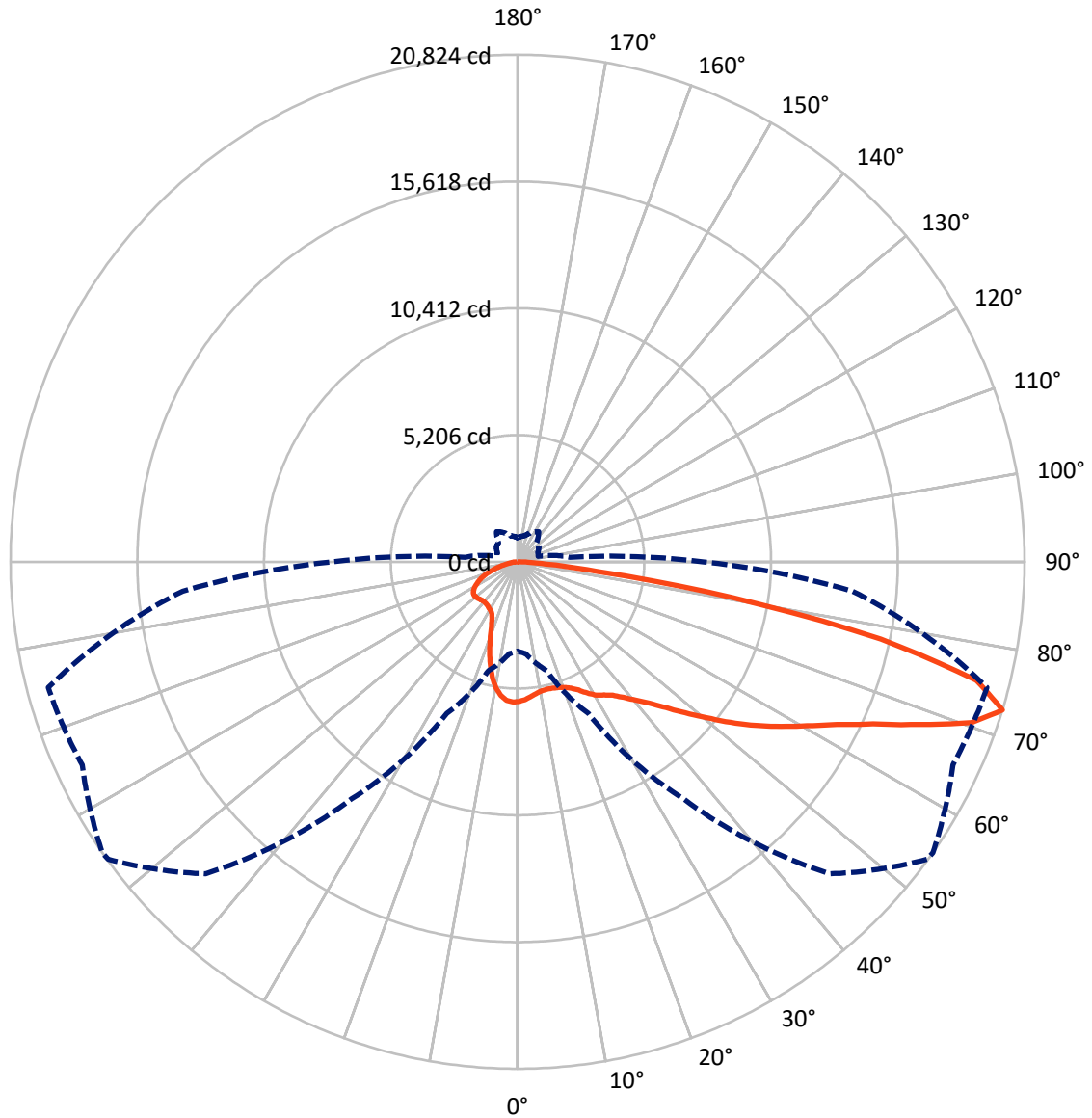
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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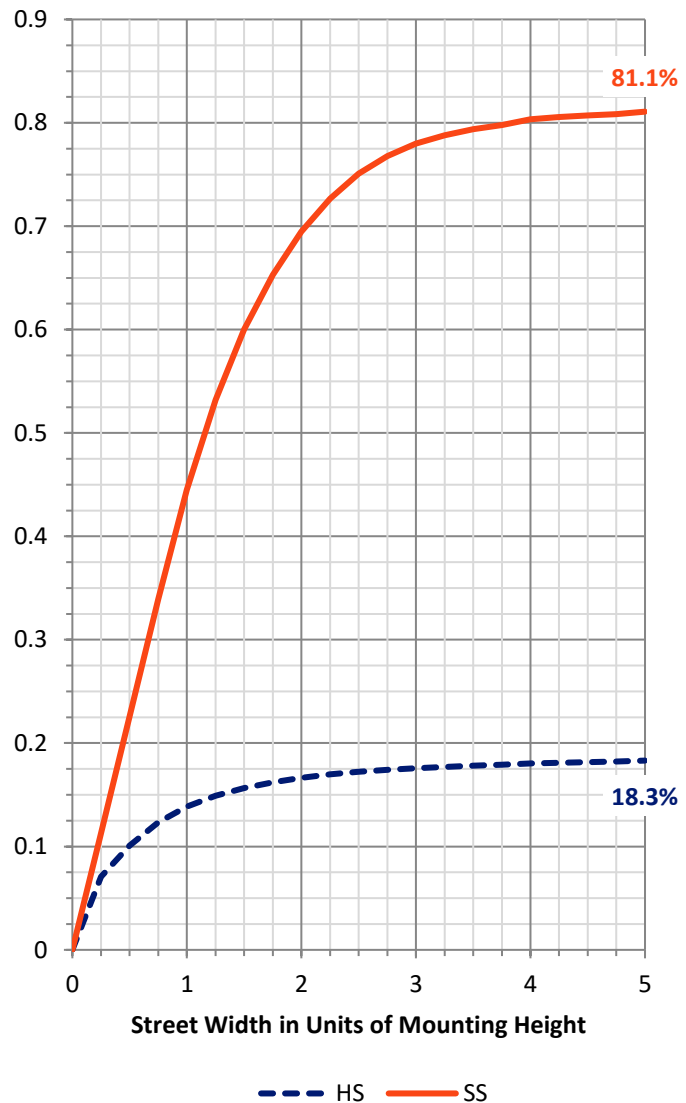
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6050.7	0.0	6050.7
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	26503.2	0.0	26503.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	32553.9	0.0	32553.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.6	1.6
10°-20°	1383.3	4.2
20°-30°	2280.7	7.0
30°-40°	3373.7	10.4
40°-50°	4709.0	14.5
50°-60°	6131.2	18.8
60°-70°	7535.1	23.1
70°-80°	5906.6	18.1
80°-90°	714.8	2.2
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°	32553.9	100.0
0°-180°	32553.9	100.0

**Coefficient of Utilization**



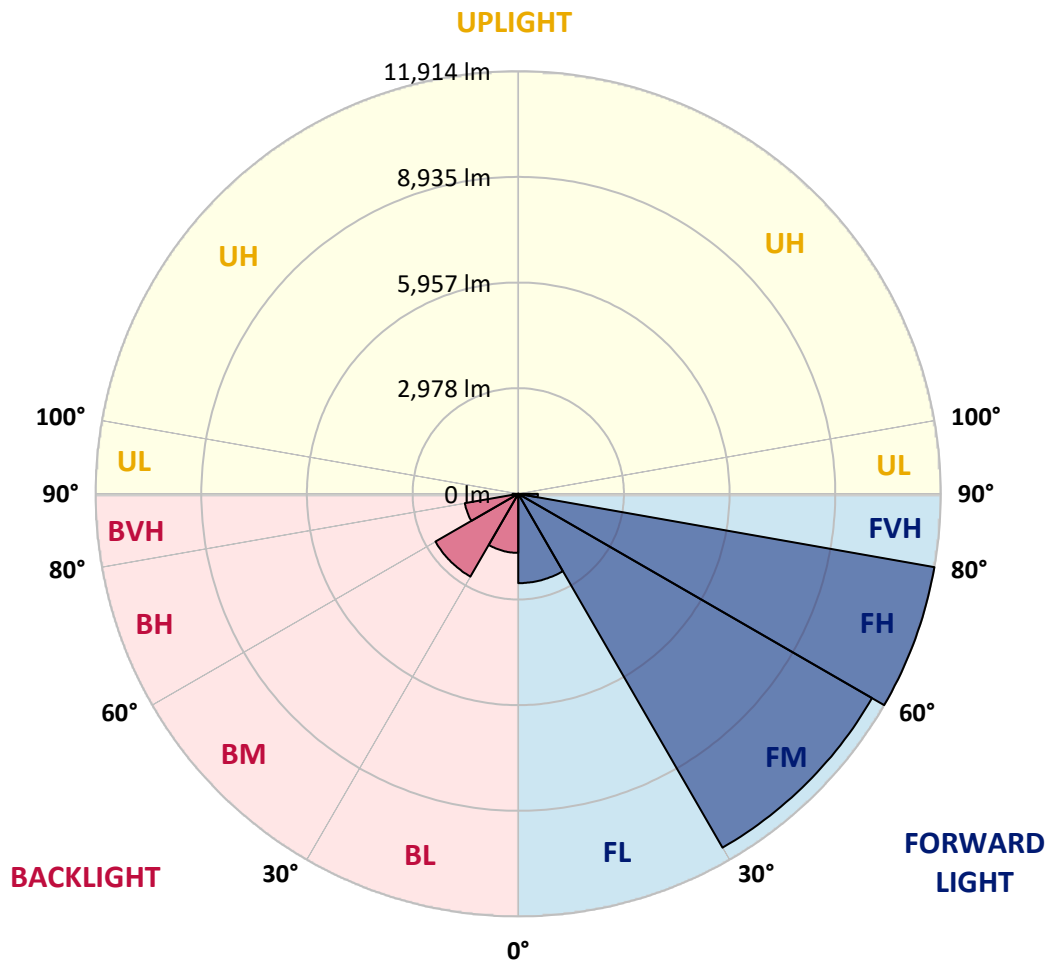
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2518.7	7.7			
FM (30°-60°)	11518.2	35.4			
FH (60°-80°)	11913.6	36.6			G4/12000
FVH (80°-90°)	552.6	1.7			G4/750
BL (0°-30°)	1664.8	5.1	B3/2500		
BM (30°-60°)	2695.7	8.3	B3/5000		
BH (60°-80°)	1528.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	162.1	0.5			G2/225
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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5741.8	5741.8	5741.8	5741.8	5741.8	5741.8	5741.8	5741.8	5741.8	5741.8	5741.8
2.5°	5554.9	5541.7	5558.2	5581.3	5606.5	5640.6	5660.5	5669.2	5703.3	5716.5	5745.1
5°	5297.6	5291.0	5318.5	5358.1	5414.2	5493.3	5557.1	5569.2	5659.3	5723.1	5781.4
7.5°	5110.7	5110.7	5142.5	5189.8	5252.5	5359.2	5449.4	5465.9	5618.6	5756.1	5863.8
10°	4962.3	4967.8	5005.1	5061.2	5134.9	5248.2	5367.9	5386.7	5607.6	5833.1	6004.6
12.5°	4863.2	4876.5	4910.6	4961.1	5052.4	5189.8	5341.6	5366.8	5630.7	5943.0	6173.9
15°	4925.9	4947.9	4951.3	4972.1	5022.7	5172.2	5357.0	5383.3	5680.2	6055.2	6366.4
17.5°	5200.8	5208.6	5174.5	5130.5	5106.3	5201.9	5403.2	5430.6	5739.6	6166.2	6551.1
20°	5618.6	5614.3	5540.6	5421.8	5298.6	5314.1	5479.0	5507.6	5819.8	6264.1	6735.7
22.5°	6146.4	6131.1	6017.8	5799.0	5589.0	5501.0	5612.0	5636.2	5940.9	6403.7	6933.7
25°	6786.3	6752.3	6602.7	6309.2	6000.2	5773.7	5812.2	5835.3	6116.7	6559.9	7115.2
27.5°	7461.5	7427.4	7237.2	6882.0	6470.8	6117.8	6088.1	6108.0	6316.8	6675.3	7249.3
30°	8167.3	8131.1	7957.4	7559.3	6970.0	6474.1	6345.4	6353.2	6457.6	6738.0	7359.2
32.5°	8876.6	8842.5	8647.9	8186.1	7512.1	6856.7	6531.3	6521.4	6542.3	6802.8	7483.5
35°	9595.7	9608.9	9381.2	8870.0	8112.4	7282.3	6751.2	6730.2	6684.1	6935.9	7659.4
37.5°	10365.3	10356.6	10061.9	9527.5	8740.2	7744.0	7066.7	7063.5	6904.0	7187.7	7935.4
40°	10879.9	10885.4	10706.2	10200.4	9374.7	8255.4	7471.4	7463.7	7254.8	7564.8	8297.1
42.5°	11081.1	11117.5	11163.7	10842.6	10038.8	8848.0	7954.1	7943.1	7744.0	8105.8	8722.6
45°	11095.5	11168.0	11453.9	11413.2	10711.7	9526.4	8570.9	8540.1	8397.2	8824.9	9230.6
47.5°	10972.3	11047.1	11522.1	11753.0	11313.2	10242.2	9292.2	9268.1	9144.9	9724.3	9780.4
50°	10702.9	10774.4	11381.4	11919.1	11807.9	10930.5	10123.5	10059.7	9993.7	10763.4	10409.4
52.5°	10198.2	10335.7	11193.3	11958.6	12103.8	11541.9	10997.6	10955.8	10992.1	11859.6	11039.4
55°	9003.0	9157.0	10708.4	11925.6	12322.5	12055.3	11871.7	11869.5	12057.6	13009.8	11715.6
57.5°	8333.4	8442.2	9721.1	11869.5	12582.0	12565.6	12737.1	12758.0	13124.1	14262.2	12423.7
60°	7955.1	8069.5	9220.7	11661.8	12984.5	13225.3	13620.0	13661.8	14208.2	15648.7	13275.9
62.5°	7611.0	7736.4	8910.7	11238.4	13458.3	14168.7	14677.7	14715.2	15356.2	17073.7	14099.4
65°	7022.8	7164.6	8456.6	10960.2	13889.4	15399.0	16022.5	16047.8	16674.5	18566.9	14729.4
67.5°	6191.5	6321.3	7600.0	10345.6	14208.2	16893.3	17810.4	17824.7	17981.8	19621.3	15051.6
70°	5220.6	5270.1	6379.5	9076.7	13831.2	18290.8	19769.8	19773.0	19173.8	20296.5	14998.8
72.5°	3668.1	3784.6	4631.3	6871.0	11886.0	18120.5	20786.8	20824.2	19727.9	19955.5	13800.3
75°	2249.7	2372.8	2905.0	4163.9	7540.7	14251.2	19205.7	19465.2	18688.9	17792.7	11273.6
77.5°	1504.2	1550.4	1895.6	2427.8	3416.3	8199.3	14765.8	15253.9	15525.5	12975.7	7209.7
80°	839.0	926.9	1256.8	1508.5	1519.5	3257.9	8853.5	8967.8	8638.0	5166.7	2224.3
82.5°	444.3	492.6	839.0	886.3	829.1	1090.7	3299.7	3303.0	2759.8	1385.4	660.8
85°	344.1	384.8	575.0	540.9	423.3	483.8	1088.5	1147.9	939.0	567.4	215.5
87.5°	171.5	213.3	390.3	343.1	166.0	138.5	389.2	415.7	370.6	222.1	78.1
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°	5741.8	5741.8	5741.8	5741.8	5741.8	5741.8	5741.8	5741.8	5741.8	5741.8	5741.8
2.5°	5756.1	5766.0	5778.1	5764.9	5760.5	5742.9	5713.2	5706.7	5691.2	5692.3	5701.2
5°	5806.7	5823.2	5816.6	5766.0	5705.5	5620.9	5532.9	5458.1	5408.7	5405.3	5402.0
7.5°	5903.4	5914.4	5862.8	5718.7	5549.4	5353.7	5169.0	5007.3	4909.4	4885.2	4879.7
10°	6055.2	6053.0	5911.1	5620.9	5283.3	4933.7	4636.8	4412.5	4281.6	4243.1	4233.2
12.5°	6224.5	6199.2	5927.6	5442.8	4907.2	4422.3	4046.3	3796.7	3660.3	3616.4	3605.4
15°	6399.4	6336.7	5886.9	5176.6	4445.4	3871.5	3476.7	3245.9	3172.2	3148.0	3143.6
17.5°	6562.1	6441.1	5770.4	4816.0	3918.7	3322.8	3015.0	2922.5	2940.2	2972.1	2973.1
20°	6721.5	6511.5	5583.5	4360.8	3363.5	2870.9	2766.4	2834.6	2918.2	2983.1	2991.9
22.5°	6878.7	6561.0	5342.7	3835.2	2866.5	2616.9	2690.6	2814.9	2910.5	2980.9	2993.0
25°	7010.6	6573.1	5010.6	3274.4	2521.2	2521.2	2654.3	2771.9	2866.5	2935.8	2947.9
27.5°	7059.1	6491.7	4542.2	2755.4	2347.5	2477.3	2603.7	2701.6	2781.9	2855.5	2868.7
30°	7077.7	6341.0	4001.2	2338.7	2276.1	2429.9	2535.6	2619.1	2695.0	2764.3	2776.4
32.5°	7081.1	6159.7	3427.3	2102.3	2226.6	2380.5	2450.9	2524.6	2605.9	2633.4	2637.8
35°	7101.9	5945.2	2822.5	1981.4	2180.4	2334.4	2390.4	2443.2	2311.3	2321.1	2329.9
37.5°	7162.4	5733.0	2316.8	1913.2	2150.7	2310.1	2377.2	2185.9	2082.6	2058.3	2055.1
40°	7275.7	5506.5	1941.8	1858.3	2139.7	2322.3	2292.5	2040.7	1862.6	1729.6	1709.8
42.5°	7432.9	5262.4	1702.1	1821.9	2147.4	2380.5	2174.9	1901.1	1605.3	1519.5	1508.5
45°	7609.9	5006.2	1572.4	1796.7	2173.8	2425.6	2150.7	1715.3	1485.4	1420.6	1415.1
47.5°	7781.4	4692.9	1505.3	1785.7	2210.1	2389.3	2048.5	1658.1	1428.3	1394.2	1397.5
50°	7978.2	4410.2	1464.6	1773.6	2242.0	2366.2	1933.0	1628.4	1406.4	1448.1	1492.1
52.5°	8144.3	4117.8	1428.3	1749.4	2254.1	2325.5	1903.3	1633.9	1406.4	1486.6	1528.4
55°	8341.1	3896.8	1386.5	1698.8	2231.0	2210.1	1882.4	1666.9	1422.8	1372.3	1376.6
57.5°	8595.1	3824.2	1340.3	1619.6	2154.0	2041.9	1872.5	1698.8	1412.9	1381.0	1392.0
60°	8947.0	3901.1	1321.7	1516.3	2034.1	1909.9	1873.6	1682.3	1343.7	1288.7	1289.7
62.5°	9282.3	3986.9	1320.6	1451.4	1886.8	1792.3	1848.3	1628.4	1308.5	1276.6	1288.7
65°	9392.2	3900.1	1267.7	1378.8	1720.8	1651.5	1802.2	1571.2	1282.1	1233.6	1231.5
67.5°	9245.0	3630.7	1161.1	1261.1	1530.5	1487.7	1741.7	1503.1	1240.3	1200.7	1194.1
70°	8807.3	3029.2	1029.2	1106.1	1313.9	1303.0	1646.0	1423.9	1184.2	1150.1	1121.5
72.5°	7629.7	2158.4	867.6	920.3	1069.9	1105.0	1514.0	1320.6	1105.0	1031.4	987.3
75°	6266.2	1597.6	712.5	723.5	812.6	908.3	1332.7	1199.6	1011.6	886.3	852.2
77.5°	3837.4	977.5	567.4	571.8	582.8	724.6	1097.4	1064.4	892.8	738.9	714.7
80°	1242.5	533.3	410.2	431.0	398.1	531.1	848.8	906.0	766.4	617.9	591.5
82.5°	472.8	311.1	277.0	291.4	276.0	356.2	619.0	725.7	627.9	508.0	413.4
85°	228.7	176.0	163.9	183.6	170.5	182.5	395.8	534.3	476.1	331.0	307.9
87.5°	81.3	78.1	62.7	84.7	72.6	64.8	120.9	269.4	314.5	227.6	203.4
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)