

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: P383517

Luminaire Tested: **GLEON-SA8A-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383517  
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-SA8A-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35573.9 lumens  
Efficiency: N/A  
Efficacy: 138.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

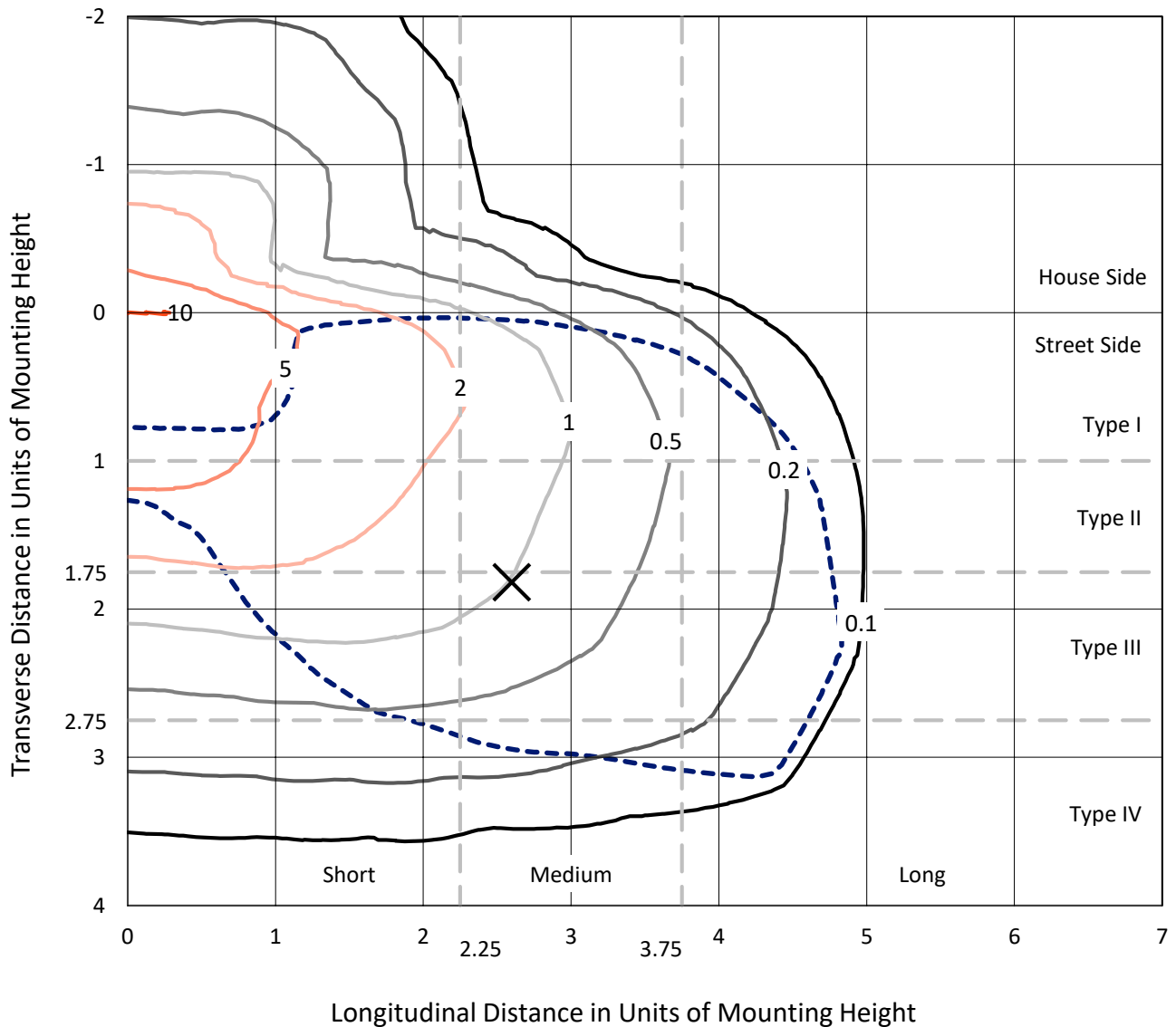
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

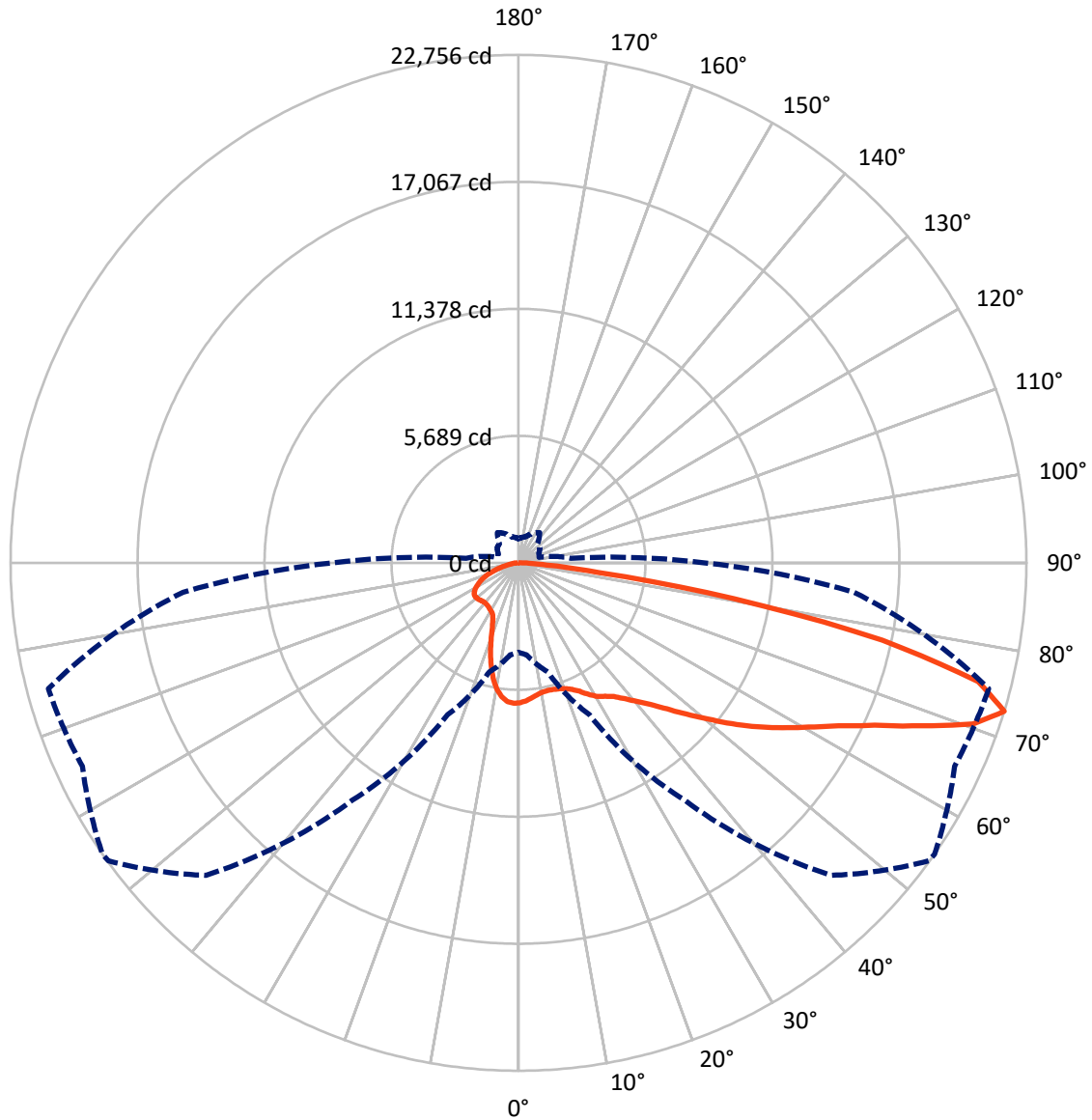
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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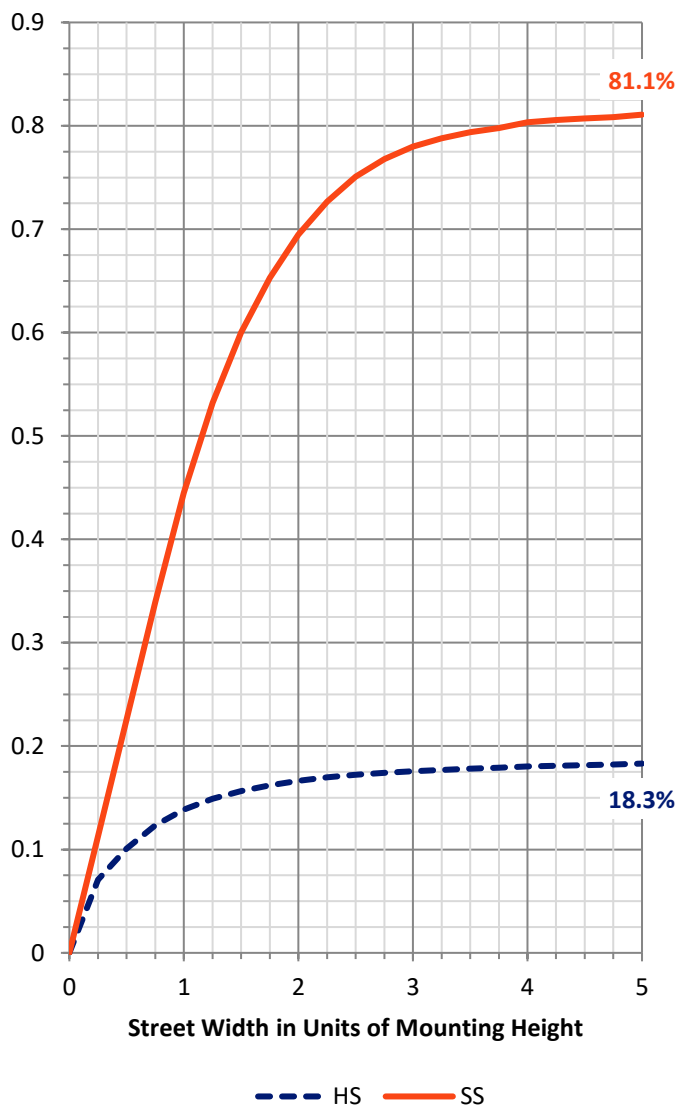
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6612.0	0.0	6612.0
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	28961.9	0.0	28961.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	35573.9	0.0	35573.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	567.8	1.6
10°-20°	1511.6	4.2
20°-30°	2492.3	7.0
30°-40°	3686.7	10.4
40°-50°	5145.8	14.5
50°-60°	6700.0	18.8
60°-70°	8234.1	23.1
70°-80°	6454.6	18.1
80°-90°	781.1	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°	35573.9	100.0
0°-180°	35573.9	100.0

**Coefficient of Utilization**

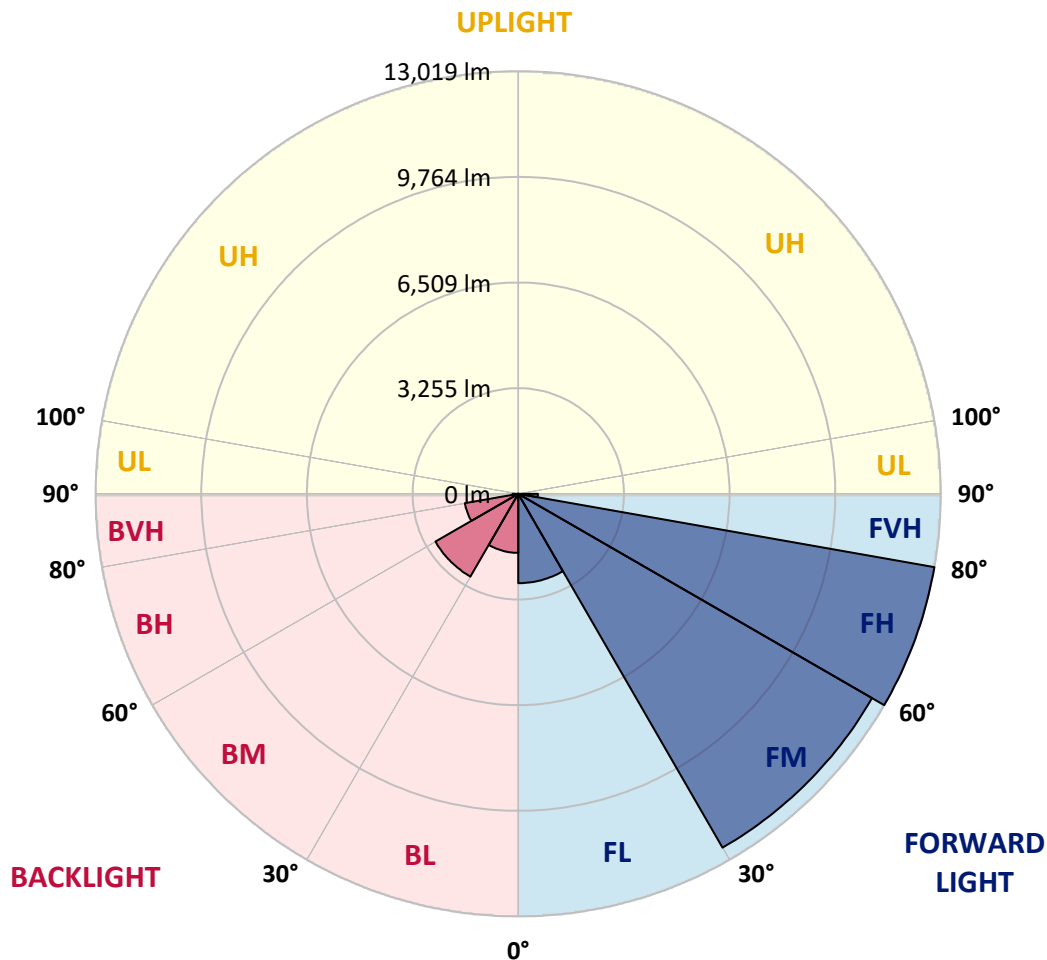


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2752.4	7.7			
FM (30°-60°)	12586.8	35.4			
FH (60°-80°)	13018.9	36.6			G5
FVH (80°-90°)	603.9	1.7			G4/750
BL (0°-30°)	1819.2	5.1	B3/2500		
BM (30°-60°)	2945.8	8.3	B3/5000		
BH (60°-80°)	1669.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	177.2	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-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6274.4	6274.4	6274.4	6274.4	6274.4	6274.4	6274.4	6274.4	6274.4	6274.4	6274.4
2.5°	6070.2	6055.8	6073.8	6099.0	6126.7	6164.0	6185.6	6195.2	6232.4	6246.9	6278.1
5°	5789.0	5781.8	5811.9	5855.1	5916.4	6002.9	6072.6	6085.8	6184.4	6254.0	6317.8
7.5°	5584.8	5584.8	5619.7	5671.3	5739.8	5856.4	5954.8	5972.9	6139.9	6290.1	6407.8
10°	5422.5	5428.6	5469.4	5530.7	5611.3	5735.0	5866.0	5886.4	6127.9	6374.2	6561.6
12.5°	5314.5	5328.8	5366.1	5421.4	5521.1	5671.3	5837.1	5864.7	6153.2	6494.4	6746.6
15°	5382.9	5407.0	5410.5	5433.4	5488.7	5652.1	5853.9	5882.8	6207.2	6616.9	6957.0
17.5°	5683.3	5691.8	5654.5	5606.4	5580.0	5684.5	5904.4	5934.4	6272.1	6738.3	7158.9
20°	6139.9	6135.1	6054.6	5924.8	5790.2	5807.1	5987.3	6018.5	6359.8	6845.2	7360.7
22.5°	6716.6	6699.8	6576.1	6336.9	6107.5	6011.4	6132.7	6159.1	6492.0	6997.8	7576.9
25°	7416.0	7378.7	7215.3	6894.5	6556.9	6309.3	6351.4	6376.6	6684.2	7168.4	7775.3
27.5°	8153.7	8116.5	7908.6	7520.5	7071.1	6685.4	6652.9	6674.6	6902.9	7294.6	7921.8
30°	8925.1	8885.5	8695.6	8260.6	7616.6	7074.7	6934.2	6942.5	7056.7	7363.0	8042.0
32.5°	9700.1	9662.9	9450.2	8945.6	8209.0	7492.8	7137.1	7126.3	7149.2	7433.9	8177.7
35°	10485.9	10500.3	10251.6	9692.8	8865.0	7957.8	7377.5	7354.7	7304.2	7579.4	8370.0
37.5°	11327.0	11317.4	10995.3	10411.4	9551.1	8462.5	7722.3	7718.7	7544.5	7854.5	8671.6
40°	11889.3	11895.3	11699.5	11146.7	10244.4	9021.2	8164.5	8156.1	7927.8	8266.6	9066.8
42.5°	12109.2	12148.9	12199.3	11848.4	10970.1	9668.8	8692.0	8680.0	8462.5	8857.8	9531.9
45°	12124.8	12204.1	12516.6	12472.0	11705.5	10410.2	9366.1	9332.4	9176.2	9643.7	10087.0
47.5°	11990.2	12071.9	12591.0	12843.3	12362.8	11192.5	10154.2	10127.9	9993.3	10626.4	10687.7
50°	11695.9	11773.9	12437.2	13024.8	12903.4	11944.6	11062.7	10992.9	10920.9	11761.9	11375.0
52.5°	11144.4	11294.5	12231.8	13068.0	13226.7	12612.6	12017.9	11972.2	12011.8	12959.9	12063.5
55°	9838.3	10006.5	11701.8	13032.0	13465.7	13173.8	12973.1	12970.7	13176.2	14216.7	12802.4
57.5°	9106.5	9225.5	10622.9	12970.7	13749.3	13731.3	13918.7	13941.5	14341.6	15585.3	13576.3
60°	8693.2	8818.1	10076.2	12743.6	14189.1	14452.2	14883.5	14929.3	15526.4	17100.4	14507.5
62.5°	8317.1	8454.1	9737.4	12281.0	14706.9	15483.2	16039.5	16080.3	16780.8	18657.6	15407.4
65°	7674.3	7829.3	9241.1	11977.0	15178.0	16827.7	17508.9	17536.6	18221.4	20289.3	16095.9
67.5°	6765.9	6907.7	8305.1	11305.4	15526.4	18460.6	19462.6	19478.3	19650.1	21441.6	16448.0
70°	5705.0	5759.0	6971.3	9918.7	15114.3	19987.8	21603.8	21607.4	20952.6	22179.3	16390.3
72.5°	4008.4	4135.7	5060.9	7508.5	12988.8	19801.5	22715.2	22756.1	21558.2	21806.9	15080.6
75°	2458.4	2593.0	3174.5	4550.2	8240.2	15573.2	20987.4	21271.0	20422.7	19443.4	12319.4
77.5°	1643.7	1694.2	2071.5	2653.0	3733.2	8959.9	16135.6	16669.0	16965.8	14179.5	7878.6
80°	916.7	1012.9	1373.4	1648.6	1660.6	3560.2	9674.9	9799.8	9439.4	5646.1	2430.7
82.5°	485.4	538.2	916.7	968.4	905.9	1191.9	3605.8	3609.5	3015.9	1514.0	722.1
85°	376.1	420.5	628.4	591.2	462.6	528.7	1189.5	1254.4	1026.1	620.0	235.5
87.5°	187.4	233.1	426.6	374.9	181.5	151.4	425.3	454.2	404.9	242.7	85.3
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°	6274.4	6274.4	6274.4	6274.4	6274.4	6274.4	6274.4	6274.4	6274.4	6274.4	6274.4
2.5°	6290.1	6300.9	6314.1	6299.7	6294.9	6275.6	6243.2	6236.1	6219.2	6220.4	6230.0
5°	6345.3	6363.4	6356.2	6300.9	6234.8	6142.3	6046.2	5964.5	5910.4	5906.9	5903.2
7.5°	6451.1	6463.1	6406.6	6249.3	6064.2	5850.3	5648.4	5471.8	5364.9	5338.5	5332.5
10°	6616.9	6614.5	6459.5	6142.3	5773.5	5391.3	5067.0	4821.8	4678.8	4636.8	4626.0
12.5°	6802.0	6774.3	6477.5	5947.7	5362.5	4832.6	4421.7	4148.9	4000.0	3951.9	3939.9
15°	6993.0	6924.5	6433.1	5656.9	4857.8	4230.6	3799.3	3547.0	3466.5	3440.0	3435.3
17.5°	7170.9	7038.7	6305.7	5262.8	4282.3	3631.1	3294.6	3193.7	3212.9	3247.7	3249.0
20°	7345.1	7115.5	6101.5	4765.3	3675.5	3137.3	3023.1	3097.6	3188.9	3259.8	3269.5
22.5°	7516.8	7169.7	5838.3	4191.0	3132.4	2859.7	2940.2	3076.0	3180.5	3257.4	3270.6
25°	7661.0	7182.9	5475.5	3578.2	2755.1	2755.1	2900.6	3029.1	3132.4	3208.2	3221.4
27.5°	7714.0	7093.9	4963.6	3011.0	2565.3	2707.1	2845.2	2952.2	3039.9	3120.4	3134.8
30°	7734.4	6929.3	4372.4	2555.7	2487.2	2655.4	2770.8	2862.1	2945.0	3020.7	3033.9
32.5°	7738.0	6731.1	3745.2	2297.4	2433.1	2601.3	2678.3	2758.8	2847.6	2877.7	2882.5
35°	7760.8	6496.8	3084.4	2165.2	2382.7	2550.9	2612.2	2669.8	2525.6	2536.5	2546.1
37.5°	7826.9	6264.8	2531.7	2090.7	2350.2	2524.5	2597.7	2388.7	2275.8	2249.3	2245.7
40°	7950.7	6017.3	2122.0	2030.6	2338.2	2537.6	2505.2	2230.0	2035.4	1890.0	1868.4
42.5°	8122.4	5750.6	1860.0	1991.0	2346.7	2601.3	2376.7	2077.4	1754.3	1660.6	1648.6
45°	8315.9	5470.6	1718.2	1963.3	2375.4	2650.6	2350.2	1874.4	1623.3	1552.4	1546.4
47.5°	8503.4	5128.2	1644.9	1951.3	2415.1	2610.9	2238.5	1812.0	1560.8	1523.5	1527.2
50°	8718.4	4819.4	1600.5	1938.1	2450.0	2585.7	2112.3	1779.5	1536.8	1582.4	1630.5
52.5°	8899.8	4499.7	1560.8	1911.6	2463.2	2541.3	2079.9	1785.5	1536.8	1624.5	1670.2
55°	9114.9	4258.3	1515.2	1856.4	2438.0	2415.1	2057.0	1821.5	1554.8	1499.5	1504.4
57.5°	9392.5	4179.0	1464.7	1769.8	2353.8	2231.2	2046.2	1856.4	1543.9	1509.1	1521.1
60°	9777.0	4263.1	1444.3	1656.9	2222.9	2087.1	2047.4	1838.4	1468.3	1408.2	1409.4
62.5°	10143.4	4356.8	1443.1	1586.1	2061.9	1958.5	2019.8	1779.5	1429.8	1395.0	1408.2
65°	10263.6	4261.9	1385.4	1506.8	1880.4	1804.7	1969.3	1717.0	1401.0	1348.1	1345.7
67.5°	10102.6	3967.5	1268.9	1378.1	1672.6	1625.7	1903.2	1642.5	1355.3	1312.1	1304.9
70°	9624.4	3310.3	1124.7	1208.8	1435.9	1423.9	1798.7	1556.0	1294.1	1256.8	1225.5
72.5°	8337.5	2358.7	948.0	1005.7	1169.1	1207.6	1654.5	1443.1	1207.6	1127.1	1079.0
75°	6847.6	1745.8	778.6	790.6	888.0	992.5	1456.3	1310.9	1105.5	968.4	931.2
77.5°	4193.4	1068.2	620.0	624.8	636.8	791.8	1199.2	1163.1	975.6	807.5	781.0
80°	1357.7	582.8	448.2	471.0	434.9	580.4	927.6	990.0	837.5	675.3	646.4
82.5°	516.6	340.0	302.8	318.4	301.5	389.3	676.5	793.0	686.1	555.1	451.8
85°	249.9	192.3	179.0	200.7	186.2	199.4	432.5	584.0	520.3	361.6	336.5
87.5°	88.9	85.3	68.5	92.5	79.3	70.9	132.2	294.4	343.6	248.7	222.3
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)