

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: P383293

Luminaire Tested: **GLEON-SA6A-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383293  
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-SA6A-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 26546.3 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

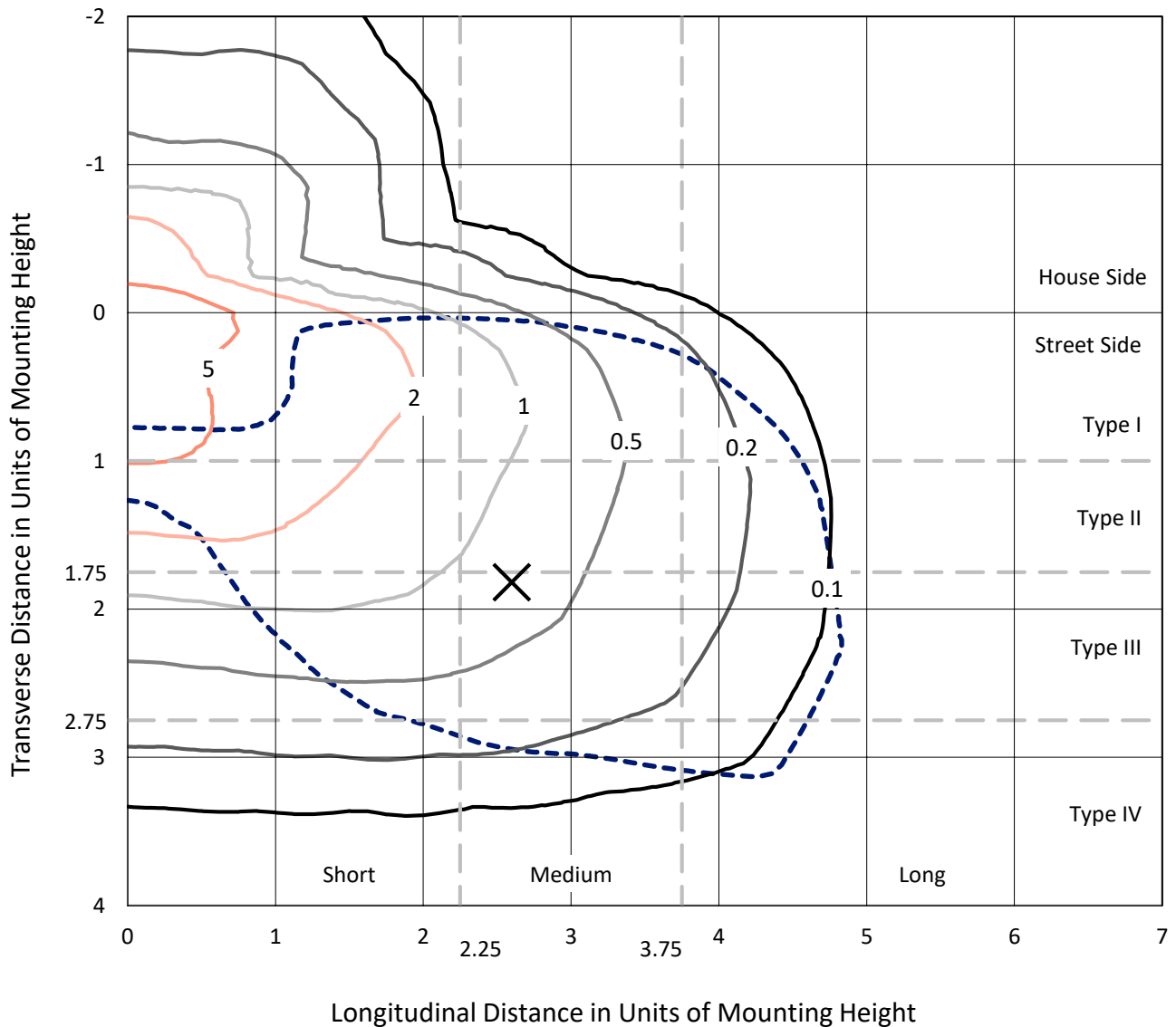
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

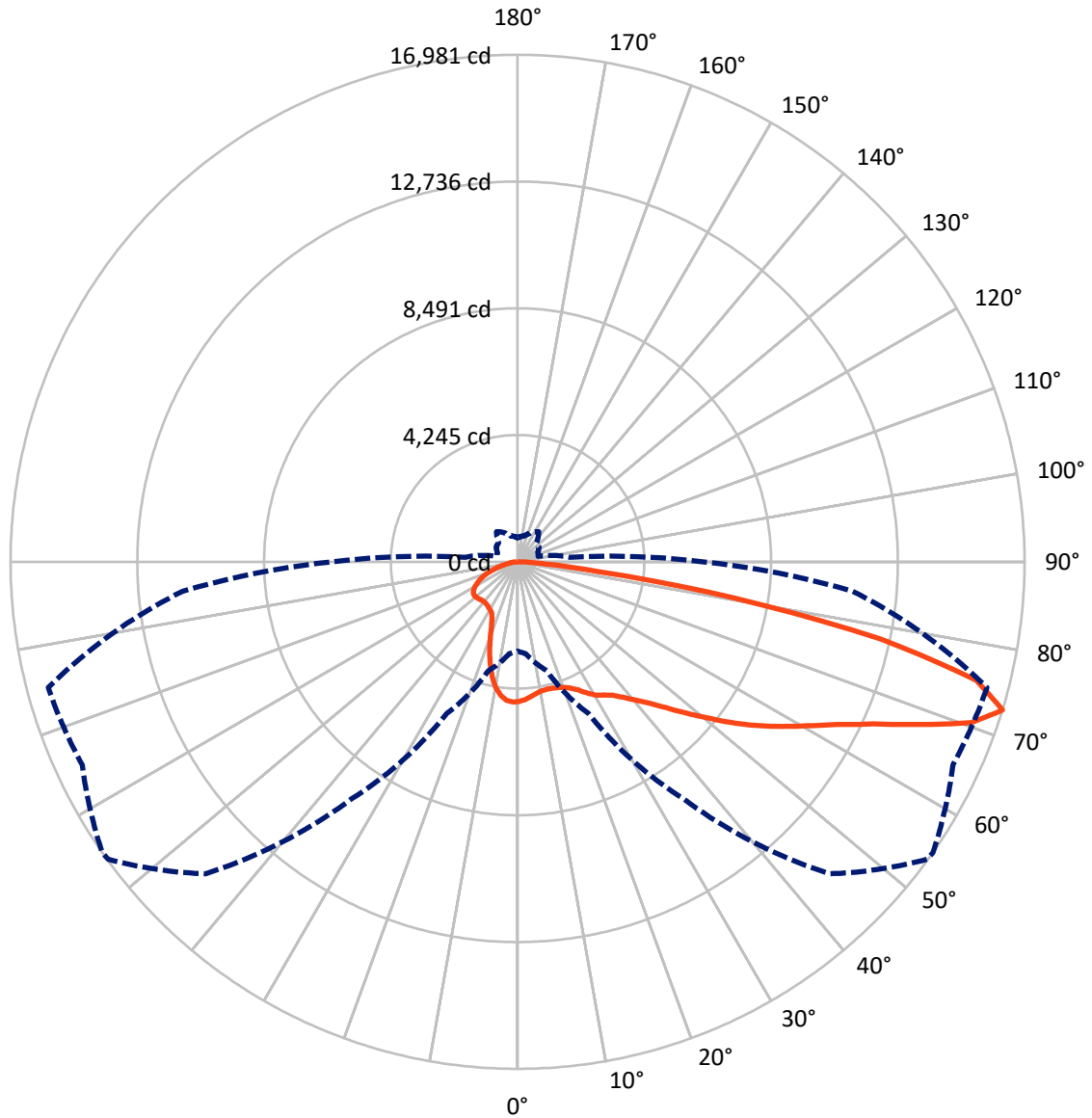
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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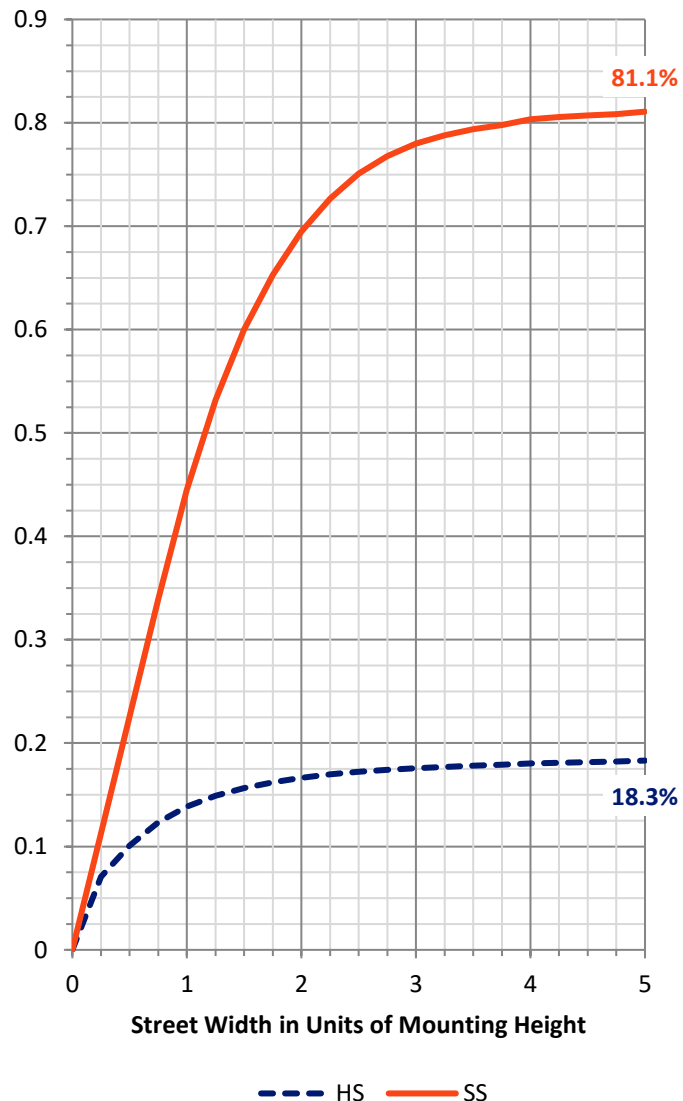
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4934.1	0.0	4934.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	21612.2	0.0	21612.2
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	26546.3	0.0	26546.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.7	1.6
10°-20°	1128.0	4.2
20°-30°	1859.8	7.0
30°-40°	2751.1	10.4
40°-50°	3840.0	14.5
50°-60°	4999.8	18.8
60°-70°	6144.5	23.1
70°-80°	4816.6	18.1
80°-90°	582.9	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°	26546.3	100.0
0°-180°	26546.3	100.0

**Coefficient of Utilization**

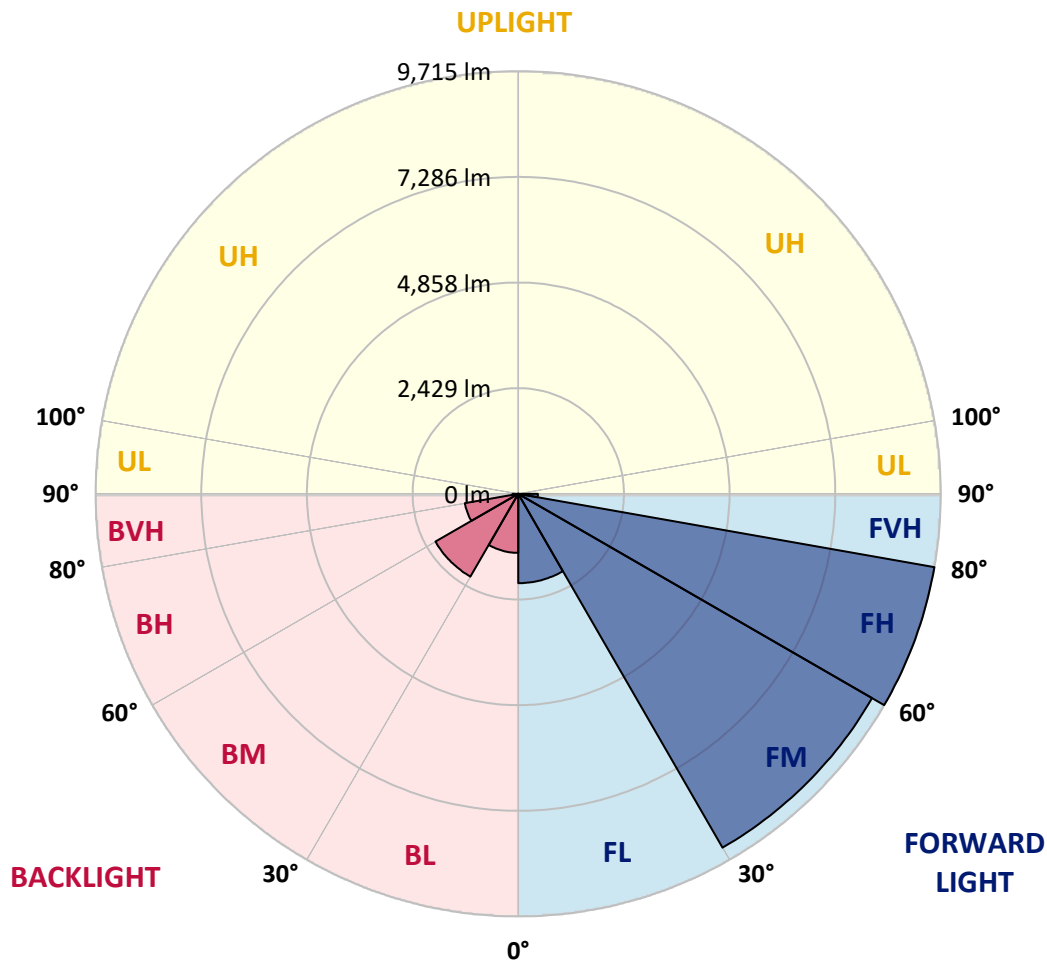


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2053.9	7.7			
FM (30°-60°)	9392.6	35.4			
FH (60°-80°)	9715.1	36.6			G4/12000
FVH (80°-90°)	450.7	1.7			G3/500
BL (0°-30°)	1357.6	5.1	B3/2500		
BM (30°-60°)	2198.2	8.3	B2/2500		
BH (60°-80°)	1246.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	132.2	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-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4682.2	4682.2	4682.2	4682.2	4682.2	4682.2	4682.2	4682.2	4682.2	4682.2	4682.2
2.5°	4529.7	4519.0	4532.4	4551.3	4571.9	4599.7	4615.8	4623.0	4650.8	4661.6	4684.8
5°	4320.0	4314.6	4337.0	4369.2	4415.0	4479.5	4531.6	4541.4	4615.0	4667.0	4714.5
7.5°	4167.6	4167.6	4193.5	4232.1	4283.2	4370.2	4443.7	4457.2	4581.8	4693.9	4781.7
10°	4046.5	4050.9	4081.5	4127.2	4187.2	4279.6	4377.3	4392.6	4572.8	4756.6	4896.5
12.5°	3965.8	3976.6	4004.4	4045.6	4120.0	4232.1	4355.8	4376.4	4591.6	4846.3	5034.5
15°	4016.9	4034.8	4037.5	4054.6	4095.8	4217.8	4368.4	4389.9	4632.0	4937.8	5191.5
17.5°	4241.1	4247.3	4219.5	4183.7	4163.9	4242.0	4406.0	4428.5	4680.4	5028.3	5342.1
20°	4581.8	4578.2	4518.1	4421.3	4320.9	4333.4	4467.9	4491.2	4745.9	5108.1	5492.8
22.5°	5012.2	4999.6	4907.2	4728.8	4557.6	4485.9	4576.4	4596.2	4844.5	5222.0	5654.1
25°	5534.0	5506.2	5384.3	5144.8	4892.9	4708.2	4739.6	4758.4	4988.0	5349.3	5802.1
27.5°	6084.5	6056.7	5901.6	5612.0	5276.7	4988.8	4964.7	4980.8	5151.2	5443.4	5911.5
30°	6660.2	6630.6	6488.9	6164.3	5683.7	5279.4	5174.5	5180.7	5265.9	5494.5	6001.1
32.5°	7238.5	7210.7	7052.0	6675.4	6125.8	5591.3	5325.9	5317.9	5335.0	5547.5	6102.5
35°	7824.9	7835.6	7650.1	7233.1	6615.3	5938.3	5505.3	5488.3	5450.6	5655.9	6245.9
37.5°	8452.5	8445.3	8205.1	7769.3	7127.3	6315.0	5762.6	5759.9	5629.9	5861.3	6471.0
40°	8872.2	8876.6	8730.5	8318.1	7644.7	6731.9	6092.6	6086.4	5916.0	6168.8	6765.9
42.5°	9036.2	9065.8	9103.5	8841.7	8186.3	7215.2	6486.2	6477.2	6315.0	6610.0	7112.9
45°	9047.8	9107.1	9340.2	9307.0	8734.9	7768.4	6989.2	6964.2	6847.5	7196.4	7527.2
47.5°	8947.4	9008.4	9395.8	9584.0	9225.4	8352.1	7577.4	7557.6	7457.2	7929.8	7975.5
50°	8727.8	8786.1	9281.0	9719.5	9628.9	8913.4	8255.3	8203.3	8149.5	8777.1	8488.4
52.5°	8316.2	8428.3	9127.7	9751.7	9870.1	9411.9	8968.1	8934.0	8963.6	9671.0	9002.2
55°	7341.6	7467.1	8732.2	9724.8	10048.5	9830.6	9680.9	9679.2	9832.4	10608.9	9553.6
57.5°	6795.5	6884.3	7927.1	9679.2	10260.2	10246.7	10386.6	10403.6	10702.2	11630.2	10131.0
60°	6487.1	6580.4	7519.2	9509.6	10588.2	10784.6	11106.6	11140.7	11586.2	12760.8	10825.9
62.5°	6206.4	6308.7	7266.3	9164.5	10974.7	11554.0	11969.1	11999.5	12522.3	13922.8	11497.4
65°	5726.8	5842.5	6896.0	8937.6	11326.2	12557.3	13065.7	13086.3	13597.4	15140.4	12011.3
67.5°	5048.9	5154.7	6197.5	8436.4	11586.2	13775.8	14523.6	14535.2	14663.5	16000.4	12274.0
70°	4257.2	4297.5	5202.2	7401.7	11278.7	14915.5	16121.4	16124.1	15635.5	16550.9	12230.9
72.5°	2991.2	3086.2	3776.6	5603.1	9692.6	14776.5	16950.8	16981.3	16087.4	16272.9	11253.6
75°	1834.5	1934.9	2368.9	3395.5	6149.1	11621.2	15661.5	15873.0	15240.0	14509.2	9193.2
77.5°	1226.6	1264.2	1545.8	1979.7	2785.8	6686.2	12040.8	12439.0	12660.4	10581.1	5879.2
80°	684.1	755.9	1024.9	1230.2	1239.1	2656.7	7219.7	7312.9	7043.9	4213.3	1813.9
82.5°	362.3	401.7	684.1	722.7	676.0	889.4	2690.8	2693.5	2250.5	1129.8	538.9
85°	280.7	313.8	468.9	441.2	345.2	394.5	887.7	936.1	765.7	462.7	175.8
87.5°	139.9	173.9	318.3	279.7	135.4	113.0	317.4	338.9	302.2	181.1	63.6
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°	4682.2	4682.2	4682.2	4682.2	4682.2	4682.2	4682.2	4682.2	4682.2	4682.2	4682.2
2.5°	4693.9	4701.9	4711.8	4701.1	4697.4	4683.1	4658.9	4653.5	4641.0	4641.8	4649.0
5°	4735.1	4748.6	4743.2	4701.9	4652.6	4583.6	4511.9	4450.8	4410.5	4407.8	4405.1
7.5°	4814.0	4823.0	4780.8	4663.3	4525.3	4365.7	4215.1	4083.3	4003.4	3983.8	3979.2
10°	4937.8	4935.9	4820.3	4583.6	4308.3	4023.2	3781.1	3598.2	3491.4	3460.0	3452.0
12.5°	5075.8	5055.2	4833.7	4438.4	4001.6	3606.2	3299.6	3096.1	2984.9	2949.0	2940.1
15°	5218.3	5167.3	4800.5	4221.3	3625.1	3157.0	2835.2	2646.8	2586.8	2567.1	2563.4
17.5°	5351.1	5252.4	4705.5	3927.2	3195.6	2709.6	2458.5	2383.3	2397.6	2423.6	2424.4
20°	5481.1	5309.8	4553.1	3556.0	2742.8	2341.1	2255.9	2311.5	2379.6	2432.6	2439.7
22.5°	5609.3	5350.2	4356.8	3127.5	2337.5	2134.0	2194.1	2295.3	2373.4	2430.8	2440.7
25°	5716.9	5360.0	4086.0	2670.2	2055.9	2055.9	2164.5	2260.4	2337.5	2394.0	2403.9
27.5°	5756.4	5293.7	3704.0	2247.0	1914.3	2020.1	2123.2	2203.0	2268.5	2328.6	2339.3
30°	5771.6	5170.8	3262.8	1907.2	1856.0	1981.6	2067.7	2135.8	2197.6	2254.2	2264.0
32.5°	5774.3	5022.9	2794.8	1714.3	1815.7	1941.2	1998.5	2058.6	2125.0	2147.4	2151.0
35°	5791.3	4848.1	2301.7	1615.8	1778.0	1903.5	1949.3	1992.3	1884.7	1892.8	1900.0
37.5°	5840.6	4675.1	1889.2	1560.2	1753.8	1883.8	1938.6	1782.5	1698.2	1678.5	1675.8
40°	5933.0	4490.3	1583.4	1515.3	1744.9	1893.6	1869.4	1664.1	1518.9	1410.4	1394.2
42.5°	6061.2	4291.3	1388.0	1485.7	1751.1	1941.2	1773.6	1550.3	1309.1	1239.1	1230.2
45°	6205.6	4082.3	1282.2	1465.1	1772.6	1978.0	1753.8	1398.7	1211.4	1158.5	1154.0
47.5°	6345.4	3826.8	1227.5	1456.1	1802.3	1948.3	1670.5	1352.1	1164.7	1137.0	1139.7
50°	6505.9	3596.4	1194.3	1446.2	1828.3	1929.5	1576.3	1327.9	1146.8	1180.8	1216.7
52.5°	6641.4	3357.9	1164.7	1426.6	1838.1	1896.4	1552.1	1332.4	1146.8	1212.2	1246.3
55°	6801.8	3177.7	1130.6	1385.3	1819.2	1802.3	1535.0	1359.3	1160.2	1119.0	1122.6
57.5°	7009.0	3118.4	1093.0	1320.7	1756.5	1665.0	1527.0	1385.3	1152.1	1126.1	1135.1
60°	7295.9	3181.2	1077.7	1236.4	1658.8	1557.5	1527.8	1371.8	1095.7	1050.9	1051.7
62.5°	7569.4	3251.2	1076.9	1183.5	1538.6	1461.5	1507.2	1327.9	1067.0	1041.0	1050.9
65°	7659.0	3180.3	1033.8	1124.4	1403.2	1346.7	1469.6	1281.3	1045.5	1006.0	1004.2
67.5°	7538.8	2960.6	946.8	1028.4	1248.1	1213.2	1420.2	1225.7	1011.4	979.1	973.7
70°	7182.0	2470.2	839.2	902.0	1071.5	1062.5	1342.3	1161.2	965.6	937.9	914.6
72.5°	6221.7	1760.1	707.4	750.5	872.4	901.1	1234.7	1076.9	901.1	841.0	805.1
75°	5109.9	1302.8	581.0	589.9	662.6	740.6	1086.7	978.2	824.9	722.7	694.8
77.5°	3129.3	797.1	462.7	466.2	475.2	590.9	894.8	867.9	728.1	602.5	582.8
80°	1013.2	434.8	334.4	351.5	324.6	433.1	692.2	738.8	625.0	503.9	482.4
82.5°	385.6	253.8	226.0	237.6	225.1	290.5	504.8	591.8	512.0	414.3	337.1
85°	186.5	143.5	133.6	149.7	139.0	148.9	322.8	435.8	388.3	269.9	251.1
87.5°	66.3	63.6	51.1	69.0	59.2	52.9	98.7	219.7	256.5	185.6	165.9
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)