

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: P383351

Luminaire Tested: **GLEON-SA6C-735-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383351  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6C-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39644.8 lumens  
Efficiency: N/A  
Efficacy: 119.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

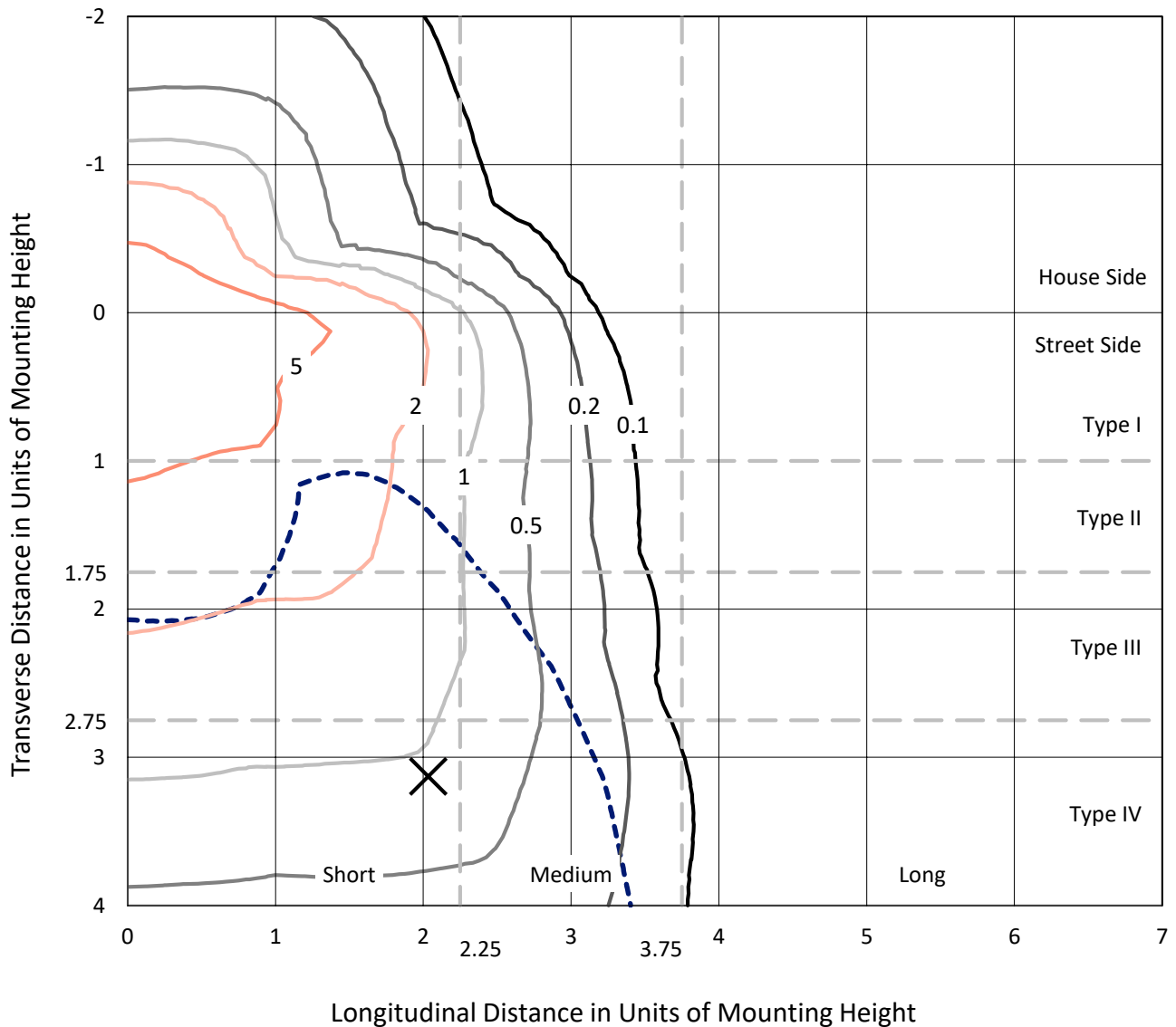
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

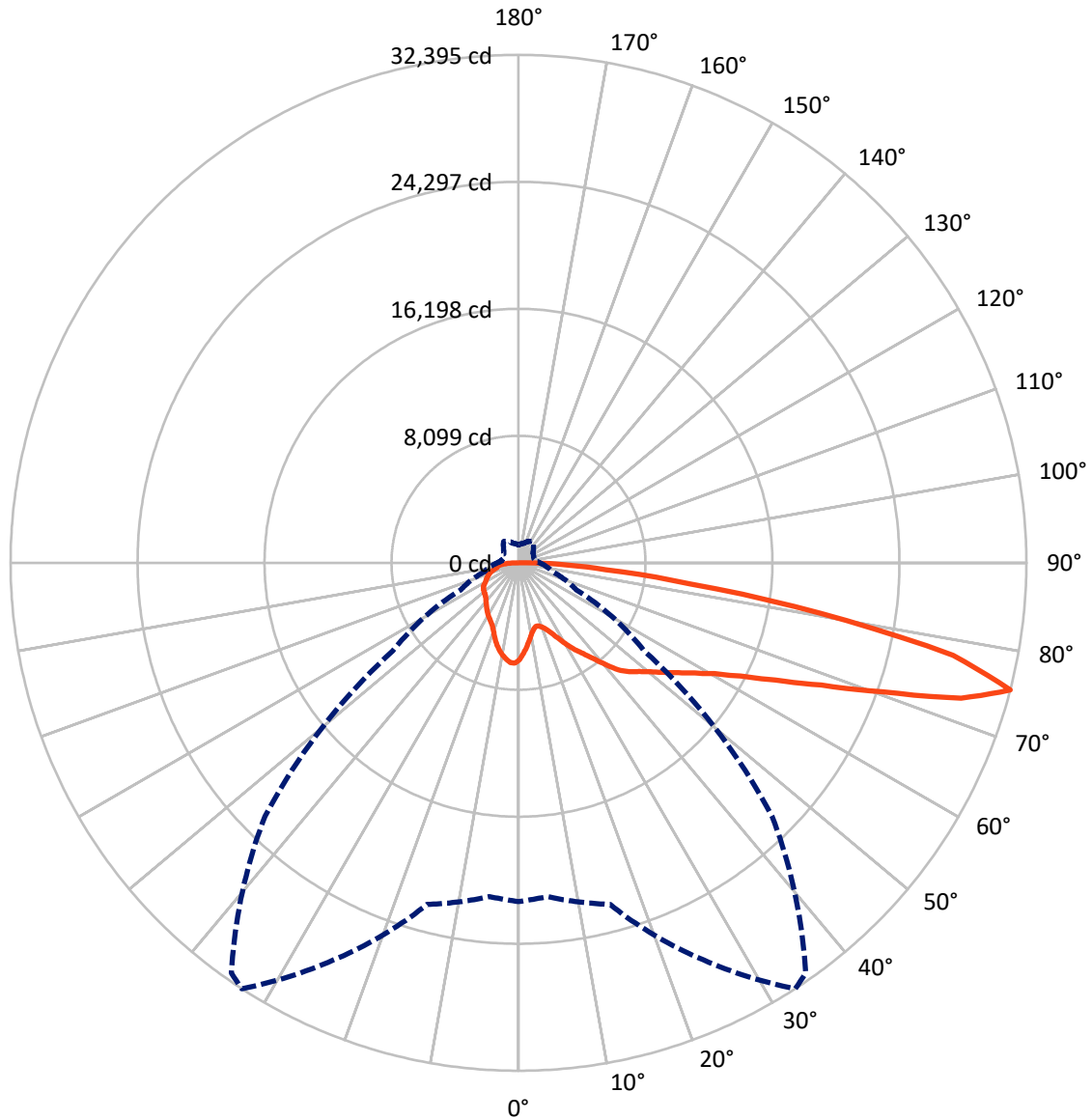
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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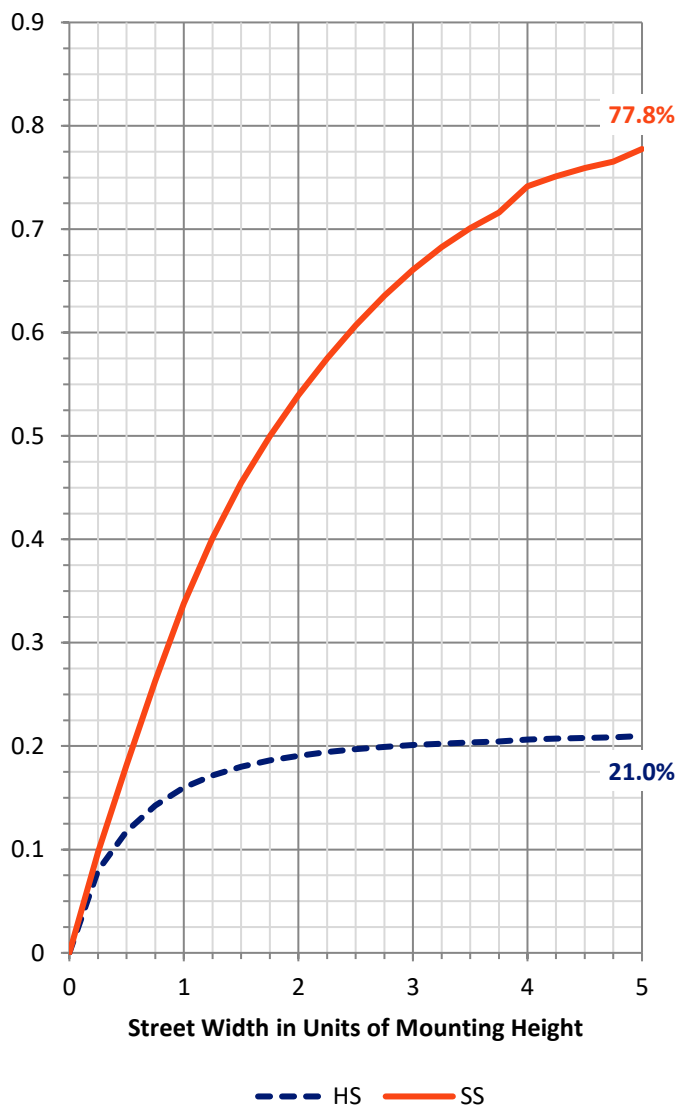
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8512.8	0.0	8512.8
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	31132.0	0.0	31132.0
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	39644.8	0.0	39644.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.4	1.4
10°-20°	1517.8	3.8
20°-30°	2478.9	6.3
30°-40°	3691.6	9.3
40°-50°	5294.7	13.4
50°-60°	7268.9	18.3
60°-70°	9100.3	23.0
70°-80°	8232.6	20.8
80°-90°	1499.6	3.8
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°	39644.8	100.0
0°-180°	39644.8	100.0

**Coefficient of Utilization**



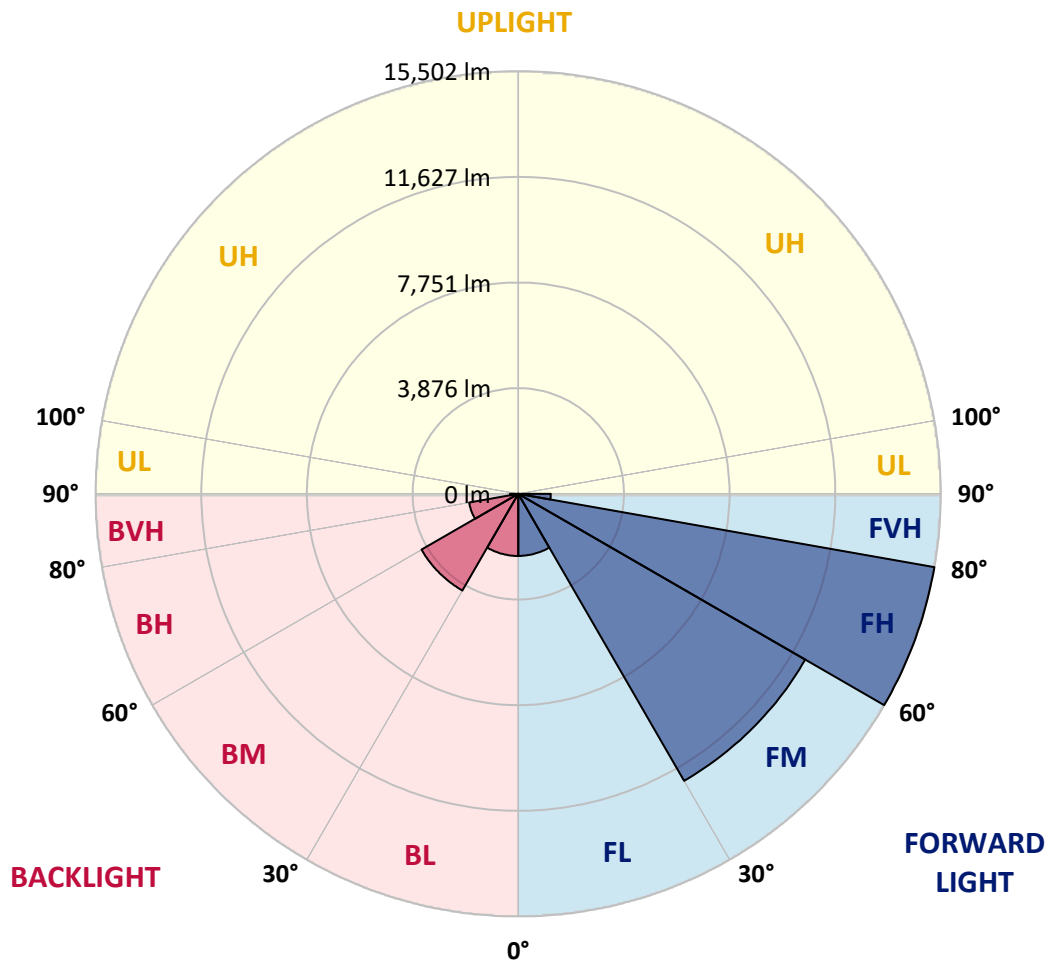
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2277.0	5.7			
FM (30°-60°)	12158.2	30.7			
FH (60°-80°)	15502.5	39.1			G5
FVH (80°-90°)	1194.3	3.0			G5
BL (0°-30°)	2280.1	5.8	B3/2500		
BM (30°-60°)	4097.0	10.3	B3/5000		
BH (60°-80°)	1830.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	305.3	0.8			G3/500
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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	6196.7	6196.7	6196.7	6196.7	6196.7	6196.7	6196.7	6196.7	6196.7	6196.7	6196.7
2.5°	5754.4	5732.5	5773.5	5779.0	5814.6	5828.3	5877.6	5954.4	6017.3	6089.9	6155.7
5°	5232.6	5217.6	5275.1	5316.2	5394.2	5427.1	5543.5	5706.5	5851.6	6015.9	6165.2
7.5°	4736.9	4728.6	4793.0	4886.2	4976.5	5021.7	5223.0	5460.0	5702.4	5968.1	6196.7
10°	4319.2	4316.5	4378.1	4469.8	4602.7	4653.4	4913.5	5225.8	5565.4	5931.1	6250.1
12.5°	4085.0	4094.6	4123.4	4200.1	4323.3	4374.0	4663.0	5030.0	5450.4	5918.7	6328.2
15°	4142.6	4157.6	4108.3	4105.6	4193.2	4233.0	4504.1	4890.3	5368.2	5939.3	6441.8
17.5°	4387.7	4390.4	4260.3	4178.2	4231.6	4252.1	4454.8	4810.8	5320.3	5985.8	6584.3
20°	4732.8	4725.9	4495.8	4358.9	4387.7	4393.2	4524.6	4812.2	5316.2	6066.6	6769.1
22.5°	5190.2	5139.5	4830.0	4643.8	4636.9	4628.7	4704.0	4913.5	5376.4	6198.1	6989.6
25°	5787.2	5739.4	5313.5	5058.7	5003.9	4983.4	4994.3	5129.9	5495.6	6339.1	7236.1
27.5°	6451.4	6367.9	5957.1	5596.9	5483.2	5454.5	5388.7	5435.3	5625.6	6474.7	7529.1
30°	7007.4	6962.2	6603.5	6176.2	6041.9	6000.8	5828.3	5777.6	5813.2	6659.5	7898.9
32.5°	7318.2	7288.1	7070.4	6725.3	6600.7	6543.2	6299.4	6198.1	6114.5	6951.3	8400.1
35°	7694.9	7675.7	7544.2	7293.6	7108.7	7048.5	6859.5	6754.1	6539.1	7352.5	9047.8
37.5°	8174.1	8153.6	8156.4	7953.7	7733.2	7677.1	7552.4	7441.5	7089.5	7879.8	9751.7
40°	8716.5	8676.7	8661.7	8652.1	8512.4	8480.9	8415.2	8264.6	7779.8	8509.7	10446.1
42.5°	9532.6	9391.6	9090.3	9204.0	9342.3	9325.9	9379.3	9162.9	8546.7	9254.6	11124.0
45°	10320.1	10088.7	9568.3	9592.9	9895.6	9987.3	10387.2	10233.8	9377.9	10070.9	11825.1
47.5°	10678.9	10503.6	10061.3	10062.7	10362.5	10552.9	11429.3	11319.8	10251.6	10997.9	12681.0
50°	11080.1	10904.8	10507.7	10657.0	10918.5	11121.2	12435.9	12379.7	11082.9	12012.7	13706.7
52.5°	11518.3	11221.1	10969.2	11236.2	11603.3	11838.8	13443.7	13290.4	11845.7	13034.3	14885.8
55°	11523.8	11443.0	11634.8	11830.6	12379.7	12668.7	14499.6	14094.2	12467.4	14038.1	15845.7
57.5°	12179.8	12048.4	12455.1	12545.4	13263.0	13589.0	15550.0	14794.0	13100.1	14807.7	16363.4
60°	13048.0	12935.7	13268.5	13506.8	14355.8	14791.3	16671.5	15513.0	13597.1	15388.3	16338.8
62.5°	14547.5	14420.2	14416.1	14750.2	15893.7	16400.4	17930.1	16218.2	13794.4	15503.4	15641.7
65°	16742.7	16540.1	16158.0	16316.9	18017.7	18523.0	19336.4	16729.0	13534.2	14887.2	13846.3
67.5°	18879.0	18872.2	18402.5	18728.4	20822.3	21227.6	20938.7	16779.7	12722.1	12741.2	10661.1
70°	21008.5	21035.9	20956.5	22090.4	24611.5	25033.3	22645.0	16099.1	10896.6	9201.3	6387.1
72.5°	22695.7	22688.9	23088.7	26012.4	29529.2	29434.7	24082.9	14036.7	7823.6	4966.9	3052.5
75°	21602.9	21364.6	22556.0	27954.3	32395.4	31933.9	22860.0	9791.5	4060.3	2261.0	1643.3
77.5°	14090.1	14316.1	16064.9	23092.8	28336.4	27774.9	16771.5	4568.4	1913.1	1483.1	1191.4
80°	5102.6	5340.8	7522.3	13080.9	19522.7	19431.0	8259.1	1877.5	1294.1	1120.2	868.2
82.5°	1755.6	1843.3	2967.5	5809.1	11022.6	11433.4	3107.3	1066.8	940.8	794.2	594.3
85°	688.8	788.8	1357.1	2795.0	5559.9	5601.0	1258.5	638.2	654.6	520.4	325.9
87.5°	261.6	317.8	649.1	1298.2	2538.9	2332.1	450.6	304.1	372.5	309.5	154.7
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°	6196.7	6196.7	6196.7	6196.7	6196.7	6196.7	6196.7	6196.7	6196.7	6196.7	6196.7
2.5°	6206.2	6235.0	6295.3	6336.4	6380.2	6392.6	6398.1	6409.0	6419.9	6415.8	6417.2
5°	6244.6	6300.8	6398.1	6439.1	6458.2	6436.3	6393.9	6359.7	6335.0	6321.3	6317.2
7.5°	6307.6	6387.1	6491.1	6484.3	6440.4	6343.3	6233.6	6151.5	6083.0	6058.4	6044.7
10°	6391.2	6484.3	6556.9	6478.8	6351.5	6183.1	6018.6	5891.3	5788.6	5748.9	5742.1
12.5°	6498.0	6592.5	6606.2	6440.4	6229.5	5999.5	5776.2	5607.8	5454.5	5405.2	5394.2
15°	6636.3	6725.3	6640.4	6373.4	6078.9	5769.4	5480.5	5251.8	5090.2	5030.0	5008.0
17.5°	6781.5	6866.3	6647.2	6262.4	5881.7	5496.9	5134.0	4899.8	4714.9	4645.2	4636.9
20°	6955.4	6993.7	6618.5	6103.6	5610.6	5143.6	4761.5	4541.0	4442.5	4393.2	4387.7
22.5°	7170.4	7129.3	6552.8	5888.6	5266.9	4735.5	4424.7	4321.9	4297.3	4286.3	4290.4
25°	7397.7	7271.8	6455.5	5607.8	4832.8	4327.4	4178.2	4206.9	4239.8	4235.7	4235.7
27.5°	7648.3	7416.9	6306.3	5235.4	4352.1	3993.3	4011.1	4116.5	4165.8	4164.5	4163.1
30°	7970.1	7581.2	6115.9	4787.6	3902.9	3757.8	3865.9	3994.7	4061.7	4059.0	4060.3
32.5°	8365.9	7761.9	5857.1	4287.7	3578.4	3583.8	3708.4	3835.8	3913.9	3907.0	3908.4
35°	8828.7	7964.6	5506.5	3794.8	3363.4	3445.5	3544.1	3633.1	3707.1	3697.5	3687.9
37.5°	9332.7	8163.2	5040.9	3353.8	3188.0	3316.8	3398.9	3414.0	3448.2	3423.6	3405.8
40°	9812.0	8315.2	4441.1	2992.2	3011.4	3207.2	3260.6	3200.3	3138.8	3130.6	3105.9
42.5°	10229.7	8365.9	3834.4	2703.3	2825.1	3092.2	3125.1	2999.0	2888.2	2836.1	2814.2
45°	10670.7	8383.7	3268.9	2460.9	2645.8	2989.5	3025.1	2856.7	2700.6	2588.2	2551.2
47.5°	11247.2	8512.4	2829.3	2281.5	2508.8	2921.1	2971.6	2742.9	2540.3	2380.1	2345.8
50°	12001.8	8767.2	2471.9	2144.5	2419.8	2875.8	2933.4	2632.1	2408.8	2215.8	2181.5
52.5°	12839.8	9001.4	2182.9	2033.6	2333.5	2796.4	2884.1	2552.6	2285.6	2063.8	2026.8
55°	13425.9	8821.9	1950.1	1918.6	2221.2	2682.8	2815.6	2485.6	2108.9	1915.8	1882.9
57.5°	13538.3	8208.4	1773.4	1799.5	2085.6	2540.3	2710.2	2336.2	2013.1	1851.5	1817.3
60°	13231.5	7353.9	1641.9	1689.9	1940.5	2360.9	2512.9	2230.8	1921.3	1783.0	1754.3
62.5°	12460.5	6478.8	1544.7	1591.3	1804.9	2178.8	2389.7	2119.9	1828.2	1704.9	1676.2
65°	10903.5	5439.4	1451.6	1503.6	1678.9	2021.3	2278.8	2017.2	1736.4	1641.9	1614.6
67.5°	8230.3	4074.0	1364.0	1410.5	1566.7	1884.3	2158.2	1915.8	1647.4	1587.2	1554.3
70°	4846.5	2551.2	1264.0	1313.3	1448.8	1741.9	2029.5	1804.9	1536.5	1509.1	1466.6
72.5°	2255.5	1535.1	1150.4	1198.2	1301.0	1551.6	1863.8	1659.7	1405.1	1344.8	1287.3
75°	1346.2	1123.0	1016.1	1058.6	1131.2	1348.9	1655.6	1511.9	1280.4	1201.0	1140.8
77.5°	1006.5	858.6	868.2	913.4	972.3	1180.5	1466.6	1395.5	1184.6	1123.0	1081.9
80°	724.5	651.9	708.0	757.3	818.9	1073.6	1405.1	1290.0	1070.9	988.7	950.4
82.5°	483.4	468.4	532.8	583.3	643.6	939.5	1320.1	1129.8	914.8	810.7	725.8
85°	267.1	282.1	358.8	380.7	432.7	661.4	1081.9	908.0	688.8	554.6	530.0
87.5°	110.9	130.1	193.1	186.2	230.1	394.4	712.1	547.7	438.2	327.3	254.7
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)