

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: P383659

Luminaire Tested: **GLEON-SA9B-735-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383659  
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-SA9B-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA 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: 47877.8 lumens  
Efficiency: N/A  
Efficacy: 128.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B4 - U0 - G5

Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

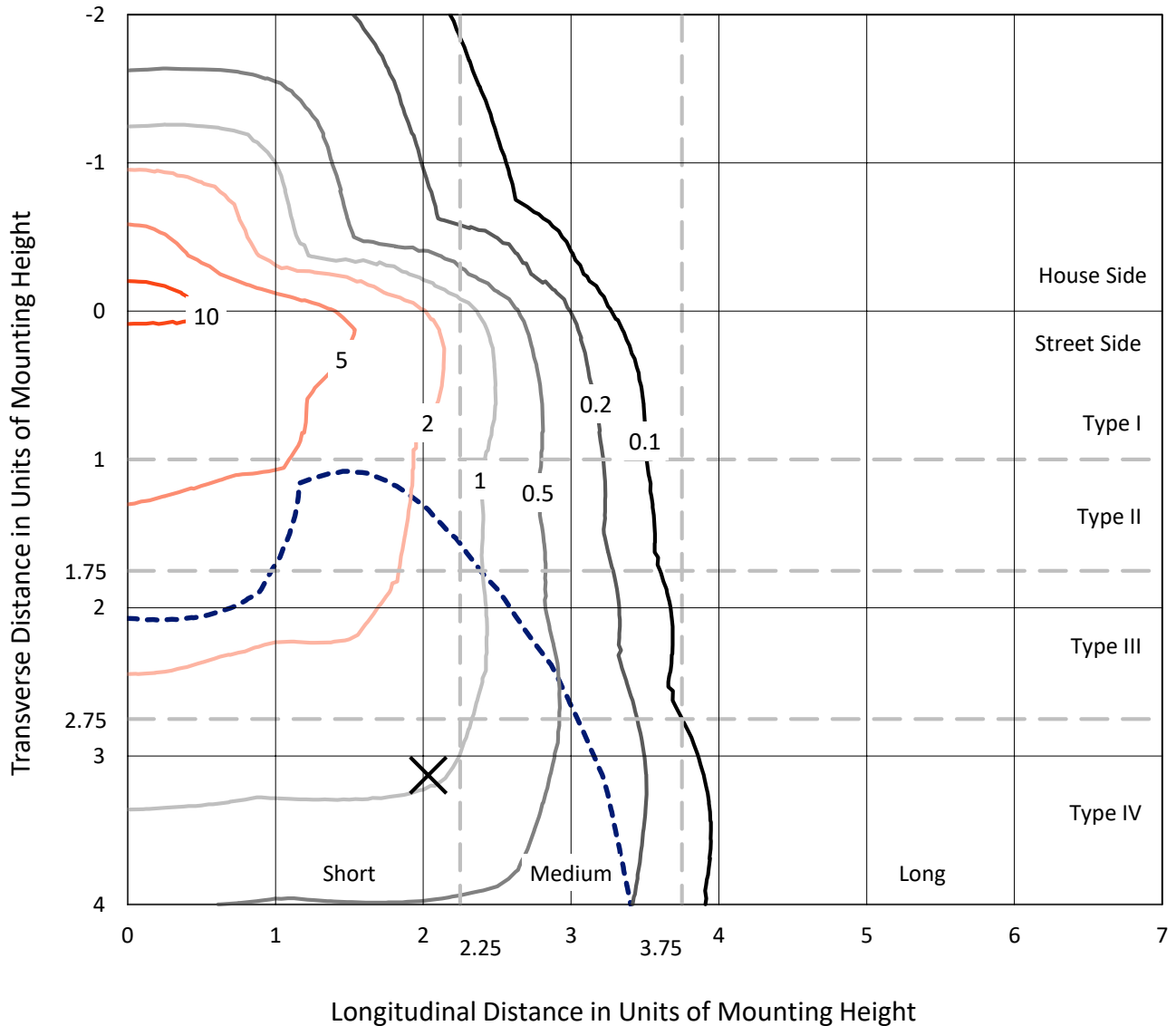




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### Iso-Footcandle Lines of Horizontal Illumination

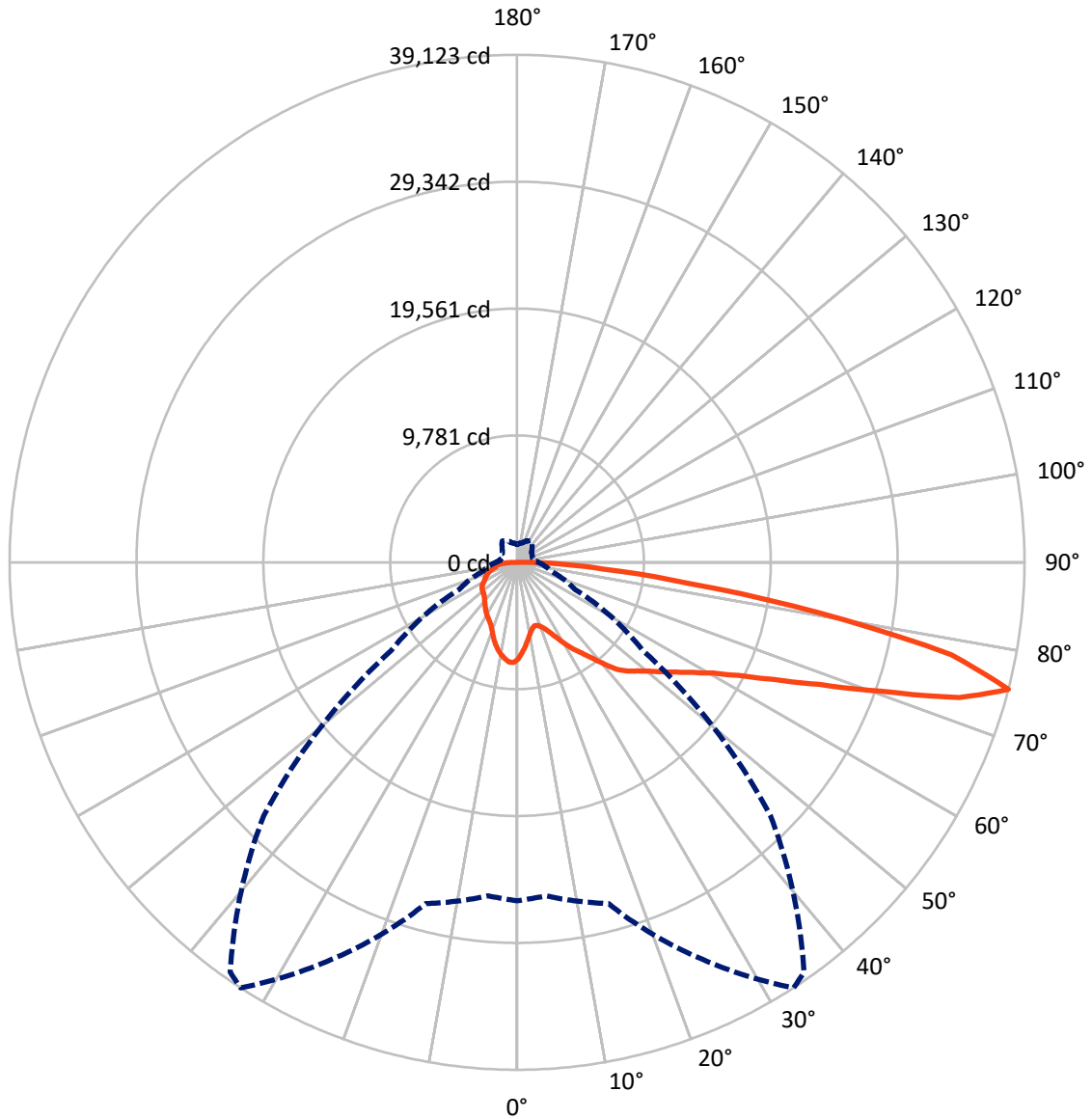
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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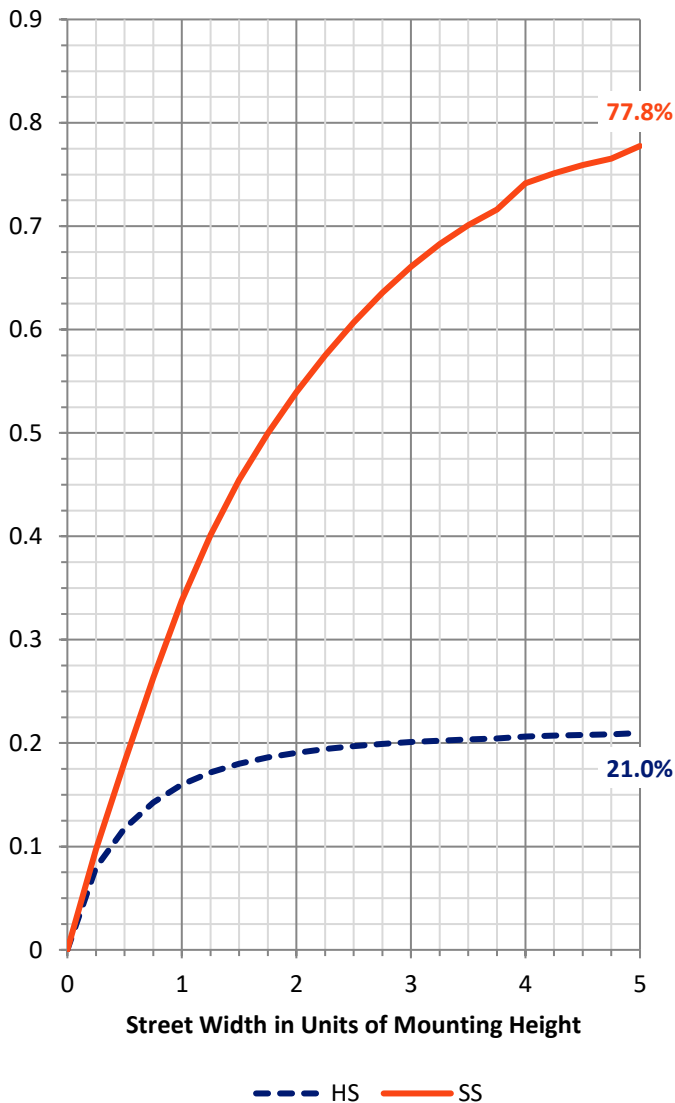
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10280.6	0.0	10280.6
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	37597.2	0.0	37597.2
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	47877.8	0.0	47877.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	676.8	1.4
10°-20°	1833.0	3.8
20°-30°	2993.6	6.3
30°-40°	4458.2	9.3
40°-50°	6394.3	13.4
50°-60°	8778.4	18.3
60°-70°	10990.2	23.0
70°-80°	9942.3	20.8
80°-90°	1811.0	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°	47877.8	100.0
0°-180°	47877.8	100.0

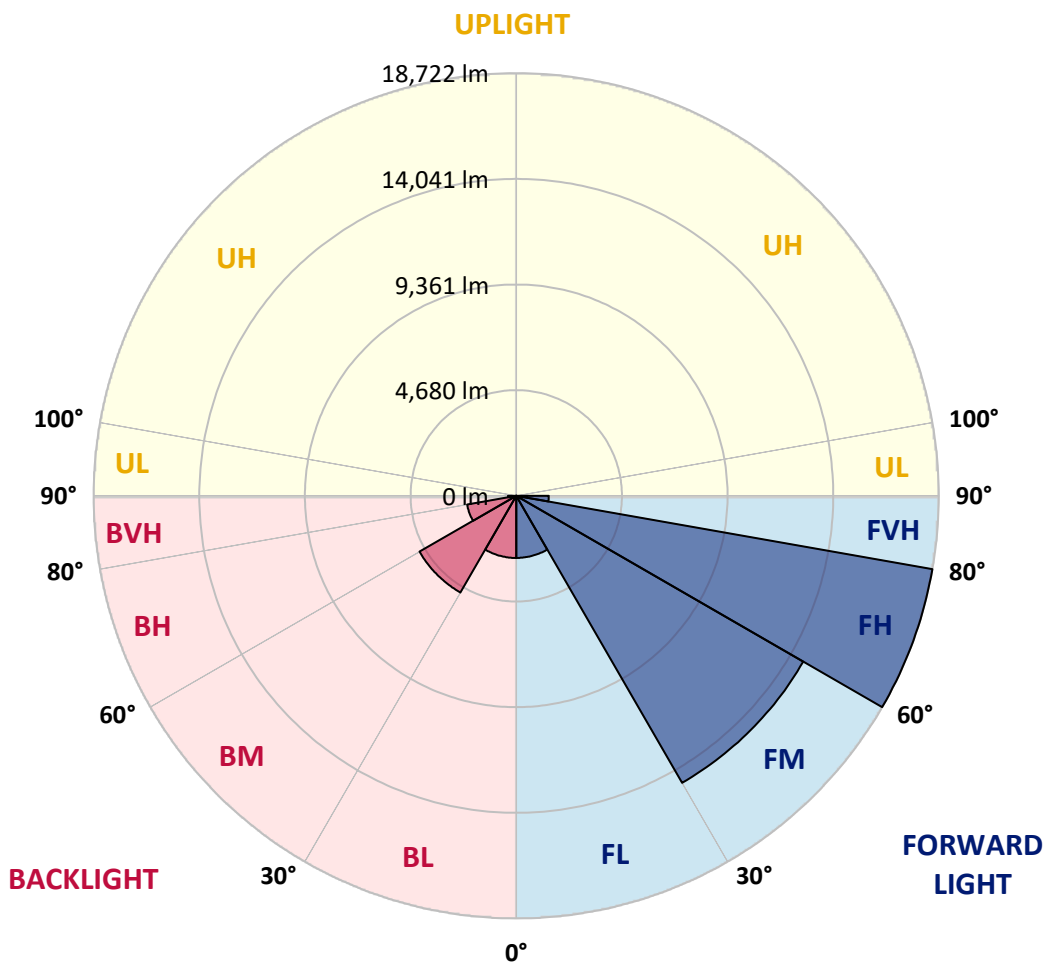


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2749.8	5.7			
FM (30°-60°)	14683.1	30.7			
FH (60°-80°)	18721.9	39.1			G5
FVH (80°-90°)	1442.3	3.0			G5
BL (0°-30°)	2753.6	5.8	B4/5000		
BM (30°-60°)	4947.8	10.3	B3/5000		
BH (60°-80°)	2210.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	368.7	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	7483.6	7483.6	7483.6	7483.6	7483.6	7483.6	7483.6	7483.6	7483.6	7483.6	7483.6
2.5°	6949.3	6922.9	6972.5	6979.2	7022.2	7038.7	7098.2	7190.8	7266.9	7354.6	7433.9
5°	6319.2	6301.1	6370.6	6420.1	6514.4	6554.1	6694.7	6891.5	7066.8	7265.2	7445.5
7.5°	5720.6	5710.7	5788.4	5900.9	6010.0	6064.6	6307.7	6593.8	6886.6	7207.4	7483.6
10°	5216.2	5212.8	5287.3	5398.1	5558.5	5619.7	5934.0	6311.0	6721.1	7162.8	7548.1
12.5°	4933.4	4944.9	4979.7	5072.3	5221.1	5282.3	5631.3	6074.5	6582.2	7147.9	7642.3
15°	5002.8	5021.0	4961.5	4958.2	5064.0	5112.0	5439.4	5905.8	6483.0	7172.6	7779.6
17.5°	5298.8	5302.2	5145.0	5045.8	5110.3	5135.2	5379.9	5809.9	6425.2	7228.9	7951.6
20°	5715.6	5707.4	5429.5	5264.2	5298.8	5305.4	5464.3	5811.6	6420.1	7326.4	8174.9
22.5°	6268.0	6206.8	5833.1	5608.1	5599.9	5589.9	5680.9	5934.0	6492.9	7485.3	8441.1
25°	6989.1	6931.2	6416.9	6109.3	6043.0	6018.3	6031.5	6195.3	6636.8	7655.6	8738.8
27.5°	7791.2	7690.3	7194.2	6759.2	6621.9	6587.2	6507.8	6564.1	6794.0	7819.3	9092.7
30°	8462.6	8408.1	7974.8	7458.8	7296.7	7247.1	7038.7	6977.5	7020.5	8042.6	9539.2
32.5°	8838.1	8801.6	8538.8	8122.0	7971.4	7901.9	7607.6	7485.3	7384.4	8394.8	10144.6
35°	9292.8	9269.7	9110.9	8808.2	8585.0	8512.3	8284.1	8156.7	7897.0	8879.4	10926.9
37.5°	9871.7	9846.9	9850.2	9605.5	9339.1	9271.3	9120.9	8986.9	8561.9	9516.1	11776.9
40°	10526.6	10478.7	10460.4	10448.9	10280.2	10242.2	10162.8	9980.9	9395.4	10276.9	12615.4
42.5°	11512.3	11342.0	10978.1	11115.4	11282.4	11262.6	11327.1	11065.8	10321.5	11176.6	13434.0
45°	12463.3	12183.7	11555.3	11585.1	11950.5	12061.4	12544.3	12359.0	11325.4	12162.3	14280.8
47.5°	12896.5	12684.9	12150.6	12152.3	12514.5	12744.4	13802.8	13670.6	12380.5	13281.9	15314.5
50°	13381.1	13169.5	12689.8	12870.1	13186.0	13430.8	15018.4	14950.6	13384.5	14507.4	16553.1
52.5°	13910.3	13551.5	13247.2	13569.7	14012.9	14297.3	16235.7	16050.4	14305.6	15741.1	17977.1
55°	13916.9	13819.4	14050.9	14287.4	14950.6	15299.6	17510.8	17021.2	15056.4	16953.4	19136.4
57.5°	14709.1	14550.4	15041.6	15150.7	16017.3	16411.0	18779.3	17866.3	15820.5	17882.8	19761.6
60°	15757.7	15622.1	16023.9	16311.7	17337.1	17863.0	20133.7	18734.5	16420.9	18584.1	19731.9
62.5°	17568.6	17414.8	17409.9	17813.4	19194.4	19806.3	21653.5	19586.3	16659.1	18723.0	18890.0
65°	20219.7	19974.9	19513.5	19705.4	21759.5	22369.7	23352.0	20203.1	16344.7	17978.8	16721.8
67.5°	22799.6	22791.4	22224.1	22617.8	25146.5	25636.0	25287.0	20264.3	15364.1	15387.2	12875.0
70°	25371.4	25404.4	25308.6	26677.9	29722.6	30232.0	27347.7	19442.4	13159.5	11112.1	7713.5
72.5°	27408.9	27400.6	27883.5	31414.5	35661.5	35547.4	29084.2	16951.7	9448.3	5998.4	3686.4
75°	26089.1	25801.4	27240.2	33759.6	39122.9	38565.6	27607.3	11824.9	4903.6	2730.5	1984.6
77.5°	17016.2	17289.2	19401.1	27888.5	34221.1	33543.0	20254.5	5517.2	2310.4	1791.1	1438.9
80°	6162.2	6449.9	9084.5	15797.4	23577.0	23466.1	9974.3	2267.4	1562.9	1352.8	1048.5
82.5°	2120.2	2226.0	3583.8	7015.6	13311.6	13807.8	3752.6	1288.3	1136.2	959.2	717.8
85°	831.9	952.6	1639.0	3375.5	6714.5	6764.2	1519.9	770.7	790.5	628.4	393.6
87.5°	315.9	383.7	783.9	1567.8	3066.2	2816.4	544.1	367.1	449.8	373.7	186.9
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°	7483.6	7483.6	7483.6	7483.6	7483.6	7483.6	7483.6	7483.6	7483.6	7483.6	7483.6
2.5°	7495.1	7529.9	7602.6	7652.3	7705.2	7720.1	7726.7	7739.9	7753.2	7748.1	7749.8
5°	7541.4	7609.3	7726.7	7776.3	7799.5	7773.0	7721.7	7680.4	7650.6	7634.0	7629.1
7.5°	7617.5	7713.5	7839.2	7830.9	7778.0	7660.5	7528.2	7429.0	7346.3	7316.6	7300.0
10°	7718.4	7830.9	7918.5	7824.3	7670.5	7467.0	7268.6	7114.8	6990.7	6942.7	6934.5
12.5°	7847.5	7961.6	7978.1	7778.0	7523.3	7245.4	6975.8	6772.4	6587.2	6527.6	6514.4
15°	8014.5	8122.0	8019.4	7696.9	7341.3	6967.6	6618.6	6342.4	6147.3	6074.5	6048.1
17.5°	8189.8	8292.3	8027.7	7563.0	7103.2	6638.5	6200.2	5917.4	5694.1	5609.8	5599.9
20°	8399.8	8446.1	7993.0	7371.1	6775.7	6211.7	5750.4	5484.1	5365.1	5305.4	5298.8
22.5°	8659.5	8609.8	7913.6	7111.4	6360.6	5719.0	5343.5	5219.5	5189.7	5176.5	5181.5
25°	8934.0	8781.8	7796.1	6772.4	5836.3	5226.1	5045.8	5080.6	5120.3	5115.3	5115.3
27.5°	9236.7	8957.1	7615.9	6322.6	5255.9	4822.5	4844.0	4971.4	5030.9	5029.3	5027.7
30°	9625.3	9155.6	7386.0	5781.7	4713.4	4538.1	4668.7	4824.2	4905.3	4902.0	4903.6
32.5°	10103.2	9373.9	7073.4	5178.1	4321.4	4328.1	4478.6	4632.4	4726.7	4718.4	4720.1
35°	10662.2	9618.7	6650.0	4582.7	4061.8	4161.0	4280.1	4387.6	4476.9	4465.4	4453.7
37.5°	11270.8	9858.5	6087.8	4050.2	3850.1	4005.6	4104.8	4123.0	4164.3	4134.6	4113.1
40°	11849.7	10042.1	5363.4	3613.7	3636.8	3873.3	3937.7	3865.0	3790.6	3780.7	3750.9
42.5°	12354.1	10103.2	4630.7	3264.7	3411.9	3734.4	3774.1	3621.9	3487.9	3425.1	3398.7
45°	12886.7	10124.7	3947.7	2971.9	3195.2	3610.3	3653.3	3449.9	3261.3	3125.7	3081.1
47.5°	13582.9	10280.2	3416.8	2755.2	3029.9	3527.6	3588.8	3312.6	3067.9	2874.4	2833.0
50°	14494.1	10587.8	2985.1	2589.9	2922.4	3473.0	3542.5	3178.6	2909.1	2675.9	2634.5
52.5°	15506.3	10870.6	2636.2	2455.9	2818.1	3377.1	3483.0	3082.8	2760.3	2492.4	2447.6
55°	16214.1	10653.9	2355.0	2317.0	2682.5	3239.8	3400.2	3001.7	2546.9	2313.7	2274.0
57.5°	16349.8	9913.1	2141.7	2173.1	2518.8	3067.9	3272.9	2821.5	2431.2	2236.0	2194.6
60°	15979.3	8881.1	1983.0	2040.8	2343.5	2851.2	3034.8	2694.1	2320.3	2153.3	2118.5
62.5°	15048.2	7824.3	1865.5	1921.8	2179.7	2631.2	2885.9	2560.2	2207.9	2059.0	2024.3
65°	13167.8	6569.0	1753.1	1815.9	2027.6	2441.0	2752.0	2436.1	2097.1	1983.0	1949.8
67.5°	9939.5	4920.2	1647.3	1703.4	1892.0	2275.7	2606.5	2313.7	1989.6	1916.8	1877.1
70°	5852.9	3081.1	1526.5	1586.1	1749.7	2103.7	2451.0	2179.7	1855.5	1822.5	1771.2
72.5°	2723.8	1854.0	1389.2	1447.1	1571.1	1873.8	2250.9	2004.4	1696.8	1624.1	1554.6
75°	1625.7	1356.1	1227.1	1278.4	1366.0	1629.0	1999.5	1825.8	1546.4	1450.4	1377.7
77.5°	1215.6	1036.9	1048.5	1103.1	1174.2	1425.6	1771.2	1685.3	1430.6	1356.1	1306.5
80°	874.9	787.3	855.1	914.6	989.0	1296.6	1696.8	1557.9	1293.3	1194.1	1147.8
82.5°	583.8	565.6	643.3	704.5	777.3	1134.5	1594.3	1364.4	1104.7	979.1	876.5
85°	322.5	340.7	433.3	459.7	522.6	798.8	1306.5	1096.5	831.9	669.8	640.1
87.5°	134.0	157.2	233.2	224.9	277.9	476.3	860.0	661.5	529.2	395.3	307.6
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)