

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: P383545

Luminaire Tested: **GLEON-SA8B-735-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383545  
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-SA8B-735-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 43621.6 lumens  
Efficiency: N/A  
Efficacy: 130.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

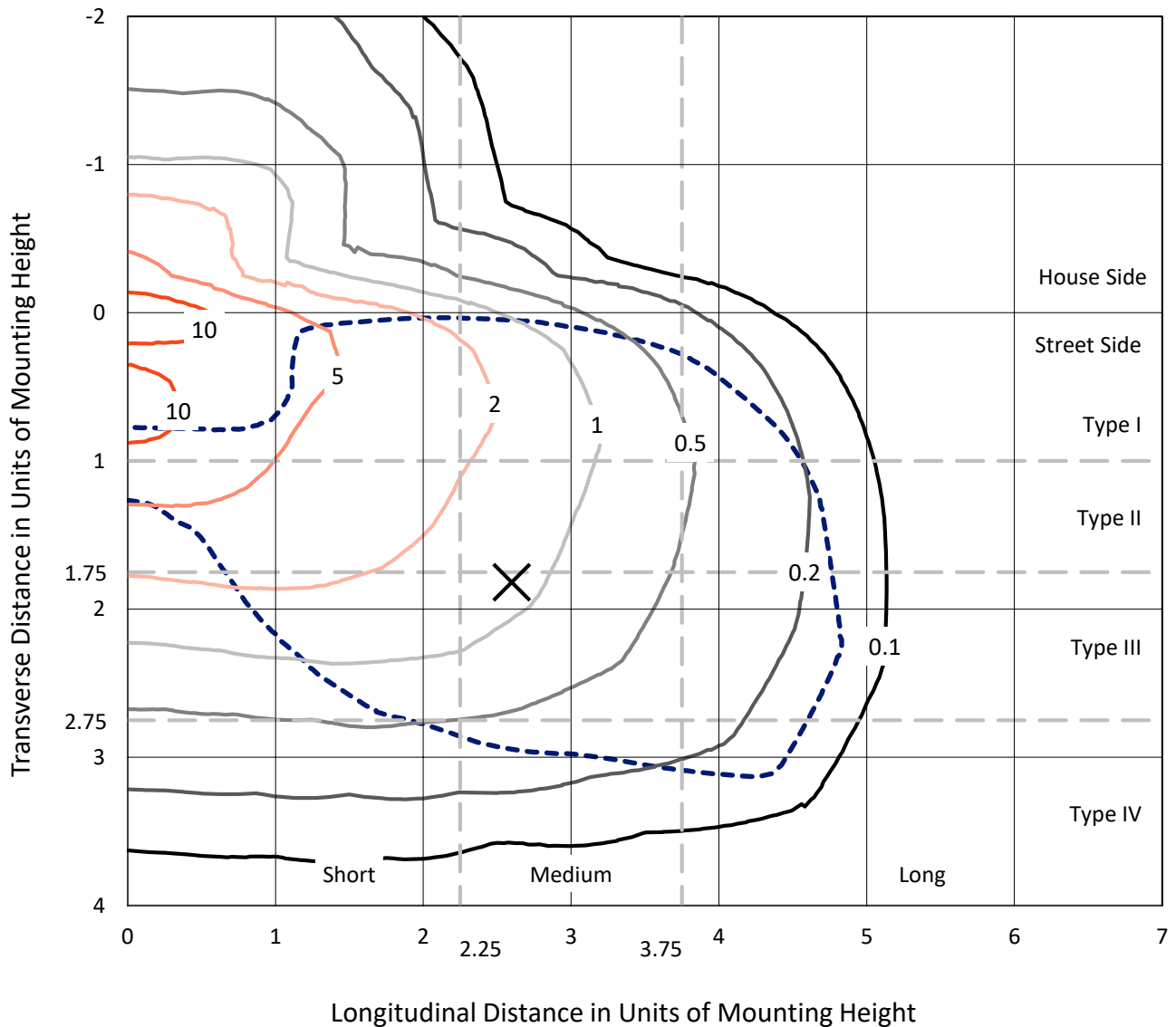
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

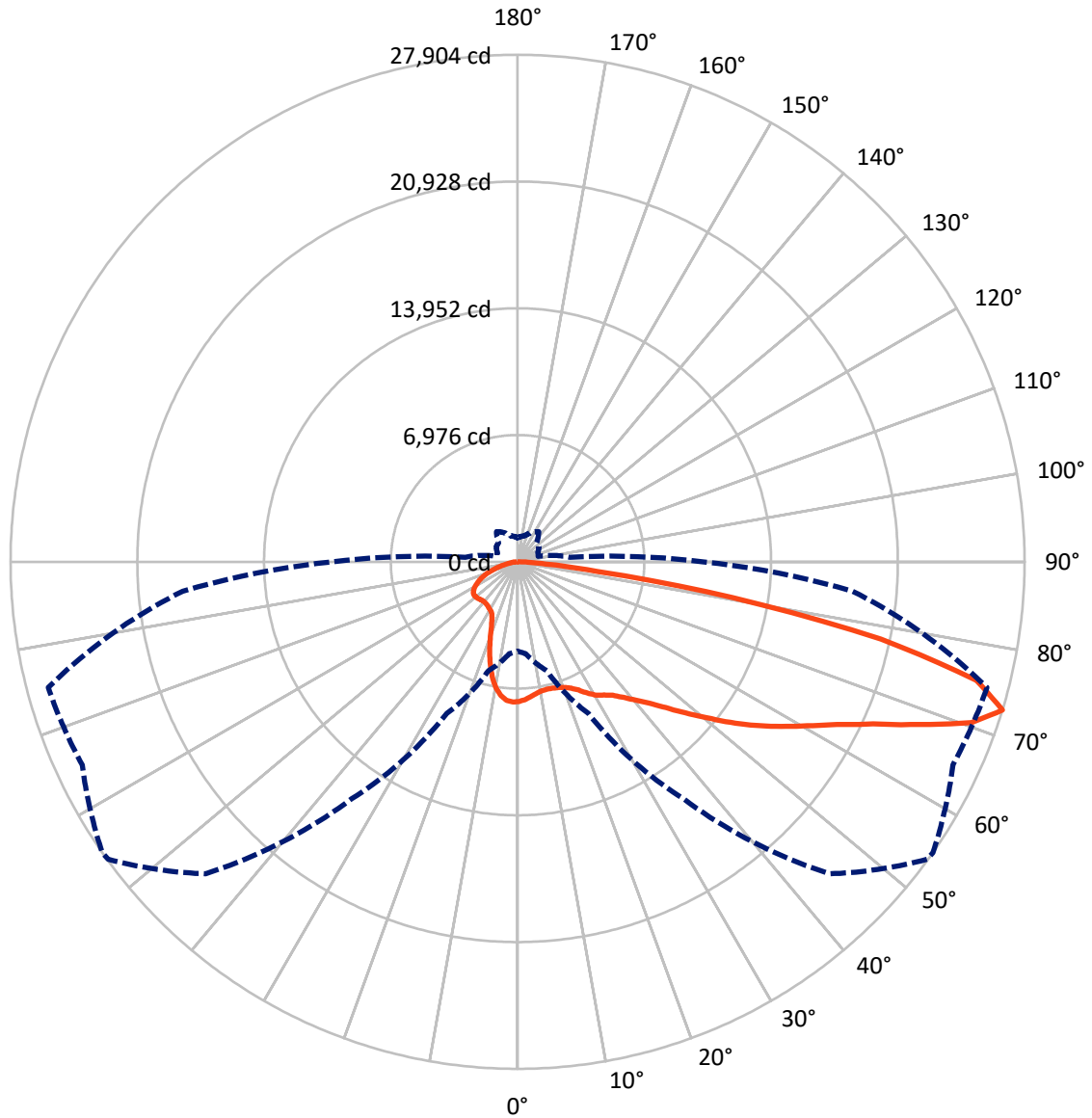
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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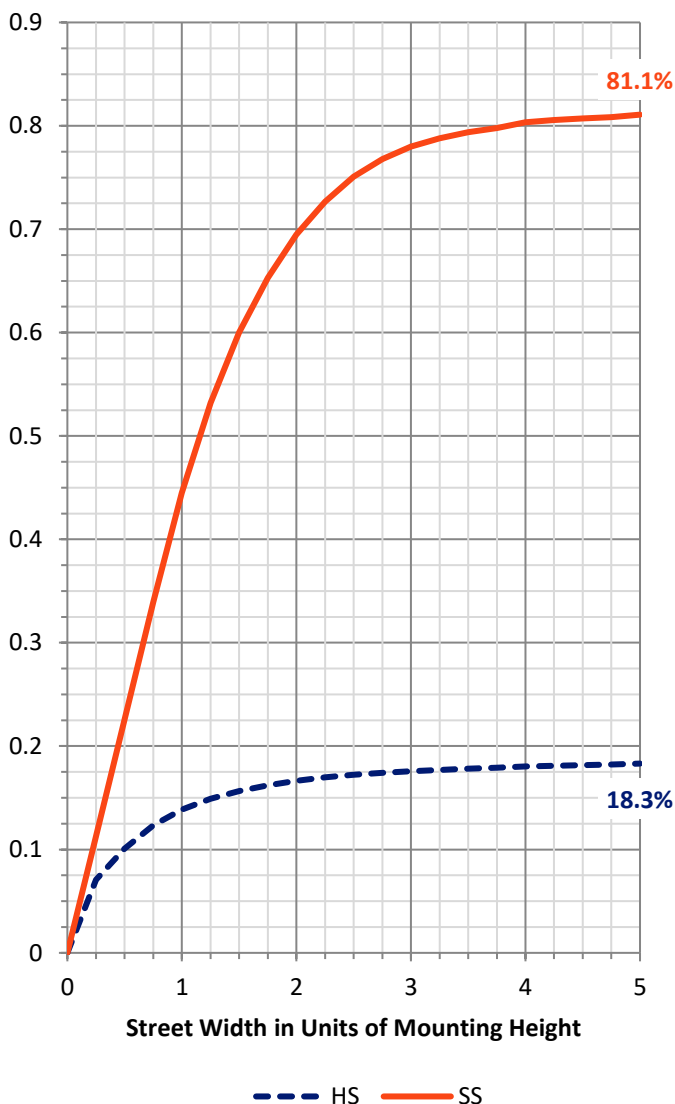
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8107.8	0.0	8107.8
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	35513.8	0.0	35513.8
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	43621.6	0.0	43621.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	696.2	1.6
10°-20°	1853.6	4.2
20°-30°	3056.1	7.0
30°-40°	4520.7	10.4
40°-50°	6309.9	14.5
50°-60°	8215.7	18.8
60°-70°	10096.9	23.1
70°-80°	7914.7	18.1
80°-90°	957.8	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°	43621.6	100.0
0°-180°	43621.6	100.0

**Coefficient of Utilization**

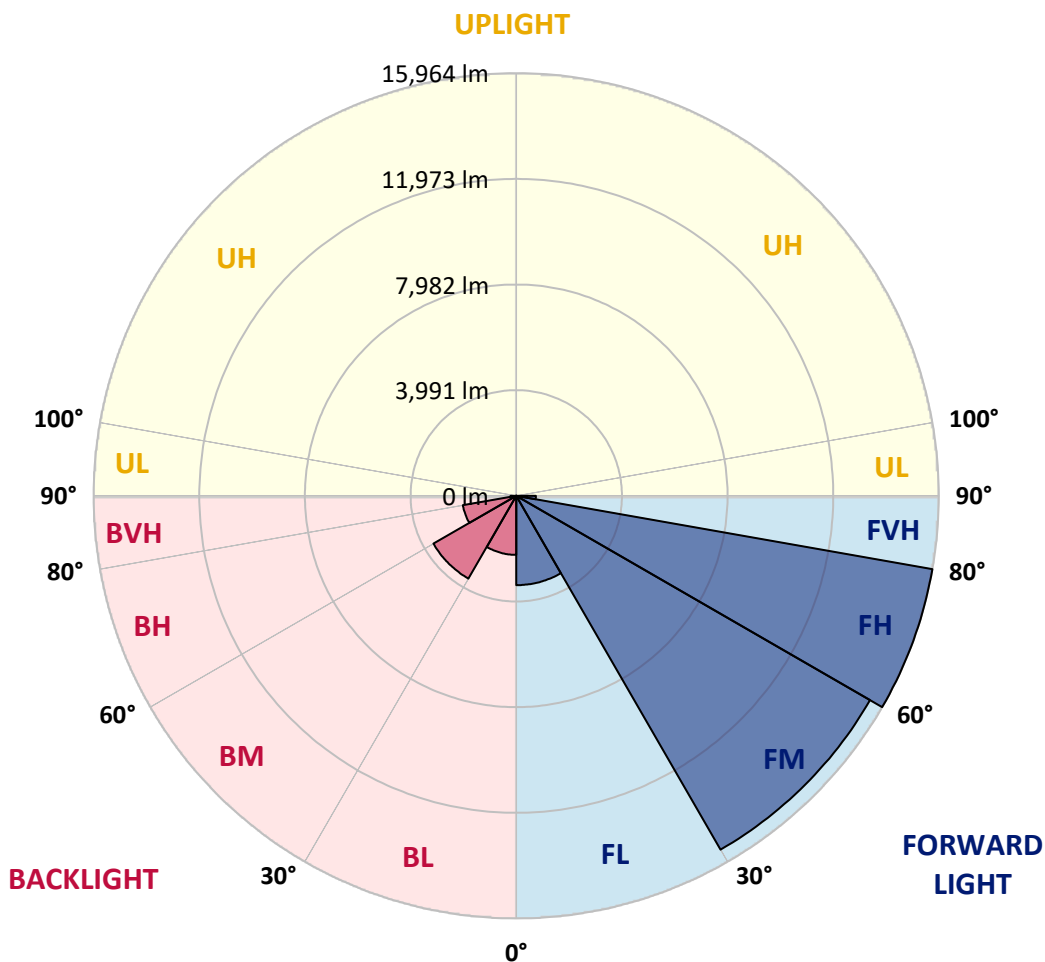


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3375.0	7.7			
FM (30°-60°)	15434.2	35.4			
FH (60°-80°)	15964.0	36.6			G5
FVH (80°-90°)	740.5	1.7			G4/750
BL (0°-30°)	2230.8	5.1	B3/2500		
BM (30°-60°)	3612.2	8.3	B3/5000		
BH (60°-80°)	2047.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	217.3	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°	7693.9	7693.9	7693.9	7693.9	7693.9	7693.9	7693.9	7693.9	7693.9	7693.9	7693.9
2.5°	7443.4	7425.7	7447.8	7478.8	7512.7	7558.4	7584.8	7596.7	7642.3	7660.0	7698.3
5°	7098.7	7089.8	7126.6	7179.7	7254.8	7360.9	7446.4	7462.6	7583.4	7668.9	7746.9
7.5°	6848.2	6848.2	6890.9	6954.3	7038.2	7181.2	7302.0	7324.1	7528.9	7713.0	7857.4
10°	6649.3	6656.7	6706.8	6781.9	6880.6	7032.3	7192.9	7218.0	7514.1	7816.2	8046.1
12.5°	6516.7	6534.3	6580.1	6647.8	6770.1	6954.3	7157.6	7191.5	7545.1	7963.5	8273.0
15°	6600.7	6630.1	6634.6	6662.5	6730.3	6930.7	7178.2	7213.6	7611.4	8113.8	8530.7
17.5°	6969.0	6979.3	6933.7	6874.7	6842.3	6970.5	7240.1	7277.0	7691.0	8262.6	8778.3
20°	7528.9	7523.0	7424.2	7265.1	7100.2	7120.7	7341.8	7380.1	7798.5	8393.7	9025.9
22.5°	8236.1	8215.5	8063.8	7770.5	7489.1	7371.2	7520.0	7552.4	7960.6	8580.9	9291.1
25°	9093.6	9047.9	8847.6	8454.2	8040.2	7736.6	7788.2	7819.1	8196.3	8790.1	9534.1
27.5°	9998.2	9952.6	9697.7	9221.8	8670.8	8197.8	8158.0	8184.6	8464.5	8944.8	9713.9
30°	10944.2	10895.6	10662.8	10129.4	9339.7	8675.1	8502.8	8513.1	8653.1	9028.7	9861.3
32.5°	11894.5	11848.8	11588.0	10969.2	10066.0	9187.9	8751.8	8738.6	8766.5	9115.7	10027.7
35°	12858.1	12875.8	12570.8	11885.6	10870.5	9758.1	9046.4	9018.5	8956.6	9294.0	10263.4
37.5°	13889.4	13877.6	13482.8	12766.7	11711.8	10376.9	9469.3	9464.9	9251.3	9631.4	10633.2
40°	14578.9	14586.3	14346.1	13668.4	12561.9	11062.0	10011.5	10001.2	9721.3	10136.7	11118.0
42.5°	14848.6	14897.2	14959.1	14528.9	13451.8	11856.2	10658.3	10643.6	10376.9	10861.7	11688.2
45°	14867.7	14964.9	15348.0	15293.5	14353.5	12765.2	11484.9	11443.6	11252.1	11825.3	12368.9
47.5°	14702.7	14802.9	15439.4	15748.8	15159.4	13724.4	12451.4	12419.0	12253.9	13030.4	13105.6
50°	14341.7	14437.5	15250.8	15971.3	15822.4	14646.7	13565.3	13479.8	13391.4	14422.8	13948.3
52.5°	13665.4	13849.6	14998.8	16024.3	16218.8	15465.9	14736.6	14680.6	14729.3	15891.7	14792.6
55°	12063.9	12270.2	14349.1	15980.1	16512.0	16154.0	15907.9	15905.0	16156.9	17432.9	15698.7
57.5°	11166.6	11312.5	13026.0	15905.0	16859.7	16837.6	17067.4	17095.5	17586.0	19111.0	16647.5
60°	10659.8	10813.0	12355.7	15626.5	17399.0	17721.7	18250.6	18306.6	19038.8	20969.0	17789.4
62.5°	10198.6	10366.6	11940.1	15059.2	18034.0	18985.8	19668.0	19718.1	20577.0	22878.4	18892.9
65°	9410.4	9600.4	11331.6	14686.5	18611.6	20634.4	21469.8	21503.8	22343.5	24879.2	19737.2
67.5°	8296.5	8470.4	10183.9	13862.9	19038.8	22636.8	23865.6	23884.7	24095.4	26292.2	20168.8
70°	6995.5	7061.9	8548.4	12162.7	18533.4	24509.4	26491.1	26495.5	25692.5	27196.8	20098.1
72.5°	4915.1	5071.3	6205.8	9207.0	15927.0	24281.1	27853.9	27904.0	26435.1	26740.1	18492.2
75°	3014.5	3179.6	3892.7	5579.6	10104.3	19096.3	25735.2	26083.0	25042.8	23841.9	15106.4
77.5°	2015.6	2077.4	2540.1	3253.2	4577.7	10986.9	19785.8	20440.0	20803.9	17387.1	9660.9
80°	1124.2	1242.0	1684.1	2021.5	2036.2	4365.6	11863.5	12016.8	11574.8	6923.4	2980.6
82.5°	595.3	660.1	1124.2	1187.5	1110.9	1461.6	4421.6	4426.0	3698.2	1856.5	885.5
85°	461.2	515.7	770.6	724.9	567.2	648.3	1458.6	1538.2	1258.2	760.2	288.8
87.5°	229.8	285.8	523.1	459.7	222.5	185.7	521.6	557.0	496.5	297.6	104.6
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°	7693.9	7693.9	7693.9	7693.9	7693.9	7693.9	7693.9	7693.9	7693.9	7693.9	7693.9
2.5°	7713.0	7726.3	7742.6	7724.9	7719.0	7695.4	7655.6	7646.8	7626.1	7627.6	7639.4
5°	7780.8	7802.9	7794.1	7726.3	7645.3	7531.8	7414.0	7313.8	7247.4	7243.1	7238.7
7.5°	7910.5	7925.2	7856.0	7663.0	7436.1	7173.8	6926.2	6709.7	6578.6	6546.2	6538.8
10°	8113.8	8110.9	7920.8	7531.8	7079.5	6611.0	6213.1	5912.6	5737.3	5685.7	5672.5
12.5°	8340.7	8306.8	7942.9	7293.2	6575.6	5925.9	5422.0	5087.6	4904.8	4845.9	4831.2
15°	8575.0	8491.0	7888.4	6936.6	5956.8	5187.7	4658.8	4349.4	4250.7	4218.2	4212.4
17.5°	8793.1	8631.0	7732.2	6453.3	5251.0	4452.5	4039.9	3916.2	3939.8	3982.5	3983.9
20°	9006.7	8725.2	7481.7	5843.3	4507.0	3846.9	3707.0	3798.3	3910.3	3997.3	4009.0
22.5°	9217.4	8791.6	7159.0	5139.1	3841.1	3506.6	3605.4	3771.8	3900.0	3994.3	4010.5
25°	9394.2	8807.8	6714.1	4387.7	3378.4	3378.4	3556.7	3714.4	3841.1	3933.9	3950.1
27.5°	9459.0	8698.7	6086.5	3692.3	3145.6	3319.5	3488.9	3620.1	3727.6	3826.3	3844.0
30°	9484.1	8496.9	5361.6	3133.8	3049.9	3256.1	3397.5	3509.5	3611.2	3704.0	3720.2
32.5°	9488.5	8253.8	4592.4	2817.1	2983.6	3189.8	3284.2	3382.8	3491.9	3528.7	3534.6
35°	9516.5	7966.5	3782.1	2655.0	2921.7	3128.0	3203.1	3273.8	3097.0	3110.3	3122.1
37.5°	9597.5	7682.1	3104.4	2563.6	2881.9	3095.5	3185.4	2929.1	2790.5	2758.1	2753.7
40°	9749.3	7378.6	2602.0	2490.0	2867.2	3111.7	3072.0	2734.6	2495.9	2317.6	2291.0
42.5°	9959.9	7051.5	2280.8	2441.4	2877.5	3189.8	2914.3	2547.4	2151.1	2036.2	2021.5
45°	10197.2	6708.3	2106.9	2407.5	2912.9	3250.3	2881.9	2298.4	1990.5	1903.6	1896.3
47.5°	10427.0	6288.3	2017.1	2392.8	2961.5	3201.6	2744.9	2221.8	1913.9	1868.2	1872.7
50°	10690.7	5909.6	1962.5	2376.6	3004.1	3170.7	2590.2	2182.1	1884.4	1940.4	1999.4
52.5°	10913.2	5517.7	1913.9	2344.1	3020.4	3116.1	2550.4	2189.4	1884.4	1992.0	2048.0
55°	11177.0	5221.6	1857.9	2276.3	2989.4	2961.5	2522.4	2233.7	1906.5	1838.8	1844.7
57.5°	11517.3	5124.4	1796.0	2170.2	2886.3	2736.0	2509.1	2276.3	1893.3	1850.5	1865.2
60°	11988.7	5227.5	1771.0	2031.8	2725.7	2559.2	2510.6	2254.3	1800.5	1726.8	1728.3
62.5°	12438.1	5342.4	1769.5	1944.9	2528.3	2401.6	2476.7	2182.1	1753.3	1710.6	1726.8
65°	12585.5	5226.0	1698.8	1847.6	2305.9	2213.0	2414.9	2105.5	1718.0	1653.1	1650.1
67.5°	12388.1	4865.0	1555.9	1689.9	2050.9	1993.4	2333.8	2014.1	1662.0	1608.9	1600.1
70°	11801.7	4059.1	1379.1	1482.2	1760.6	1745.9	2205.6	1908.0	1586.8	1541.2	1502.9
72.5°	10223.6	2892.2	1162.5	1233.2	1433.6	1480.7	2028.8	1769.5	1480.7	1382.0	1323.1
75°	8396.7	2140.8	954.7	969.5	1088.8	1217.0	1785.7	1607.5	1355.5	1187.5	1141.9
77.5°	5142.0	1309.8	760.2	766.1	780.9	971.0	1470.4	1426.2	1196.4	990.1	957.7
80°	1664.9	714.6	549.5	577.6	533.4	711.6	1137.4	1214.1	1026.9	828.1	792.7
82.5°	633.5	417.0	371.3	390.4	369.8	477.3	829.5	972.4	841.3	680.7	554.0
85°	306.5	235.8	219.6	246.0	228.4	244.6	530.4	716.1	637.9	443.5	412.6
87.5°	109.0	104.6	84.0	113.5	97.3	86.9	162.1	361.0	421.3	305.0	272.6
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)