

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: P318831

Luminaire Tested: **GLEON-SA7A-827-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318831  
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-SA7A-827-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 615mA 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: 24377 lumens  
Efficiency: N/A  
Efficacy: 107.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

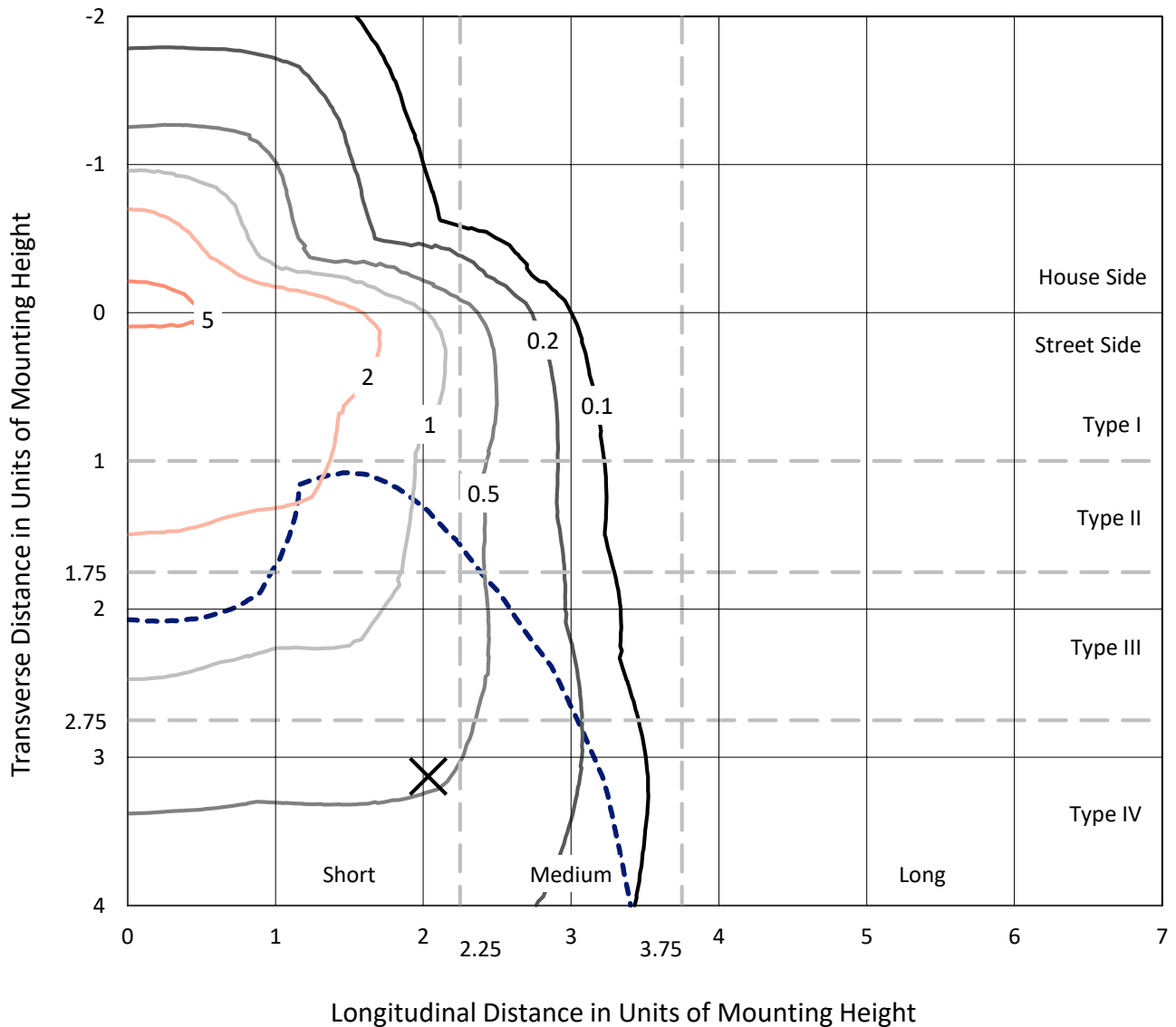
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

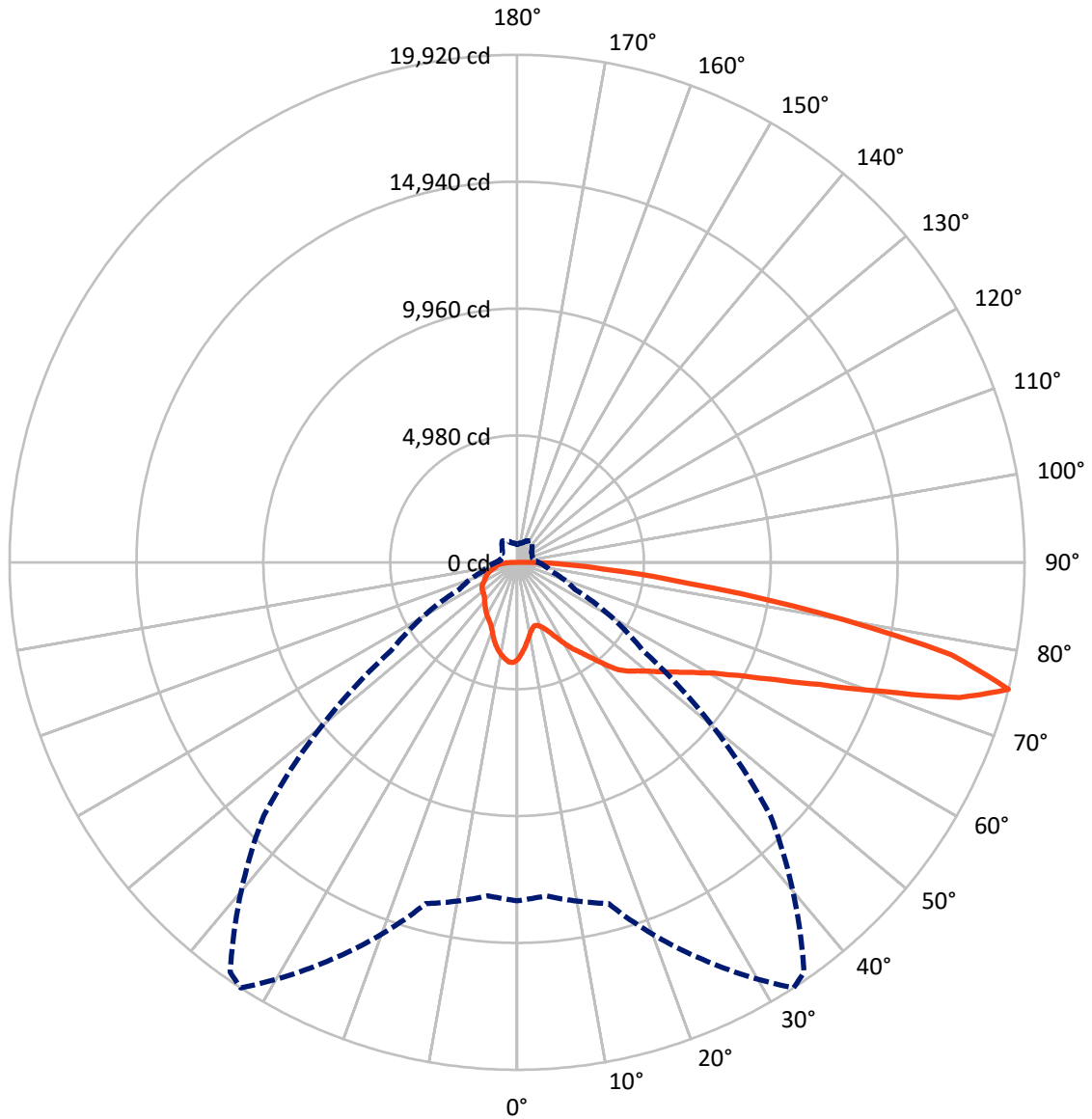
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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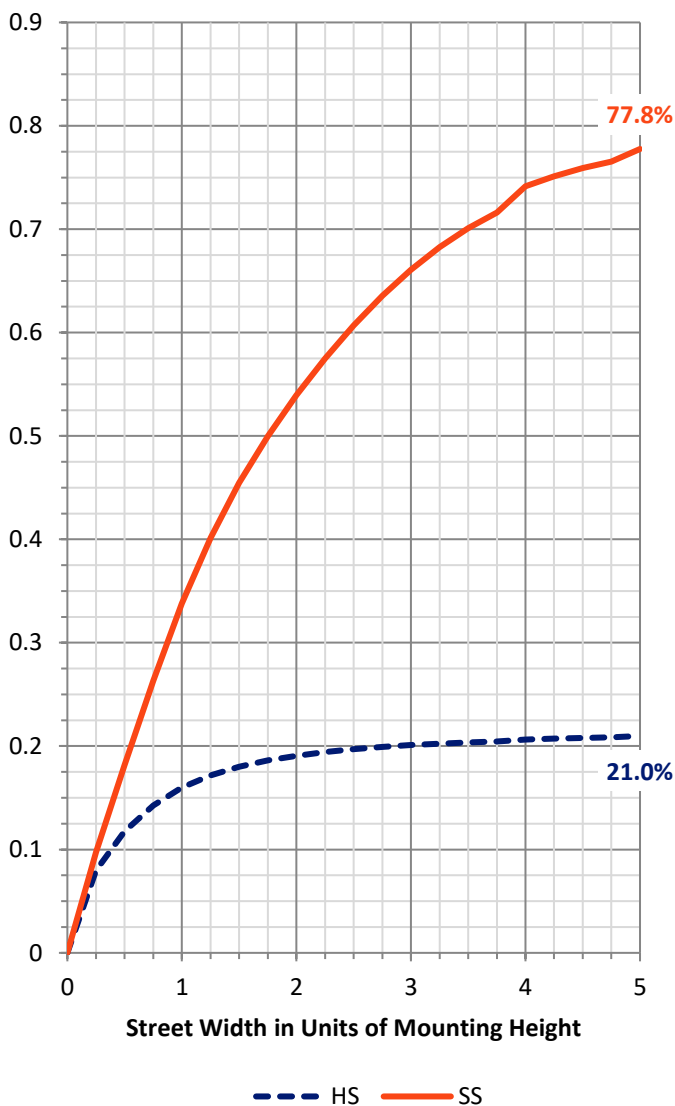
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5234.4	0.0	5234.4
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	19142.6	0.0	19142.6
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	24377.0	0.0	24377.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	344.6	1.4
10°-20°	933.3	3.8
20°-30°	1524.2	6.3
30°-40°	2269.9	9.3
40°-50°	3255.7	13.4
50°-60°	4469.5	18.3
60°-70°	5595.6	23.0
70°-80°	5062.1	20.8
80°-90°	922.1	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°	24377.0	100.0
0°-180°	24377.0	100.0

**Coefficient of Utilization**

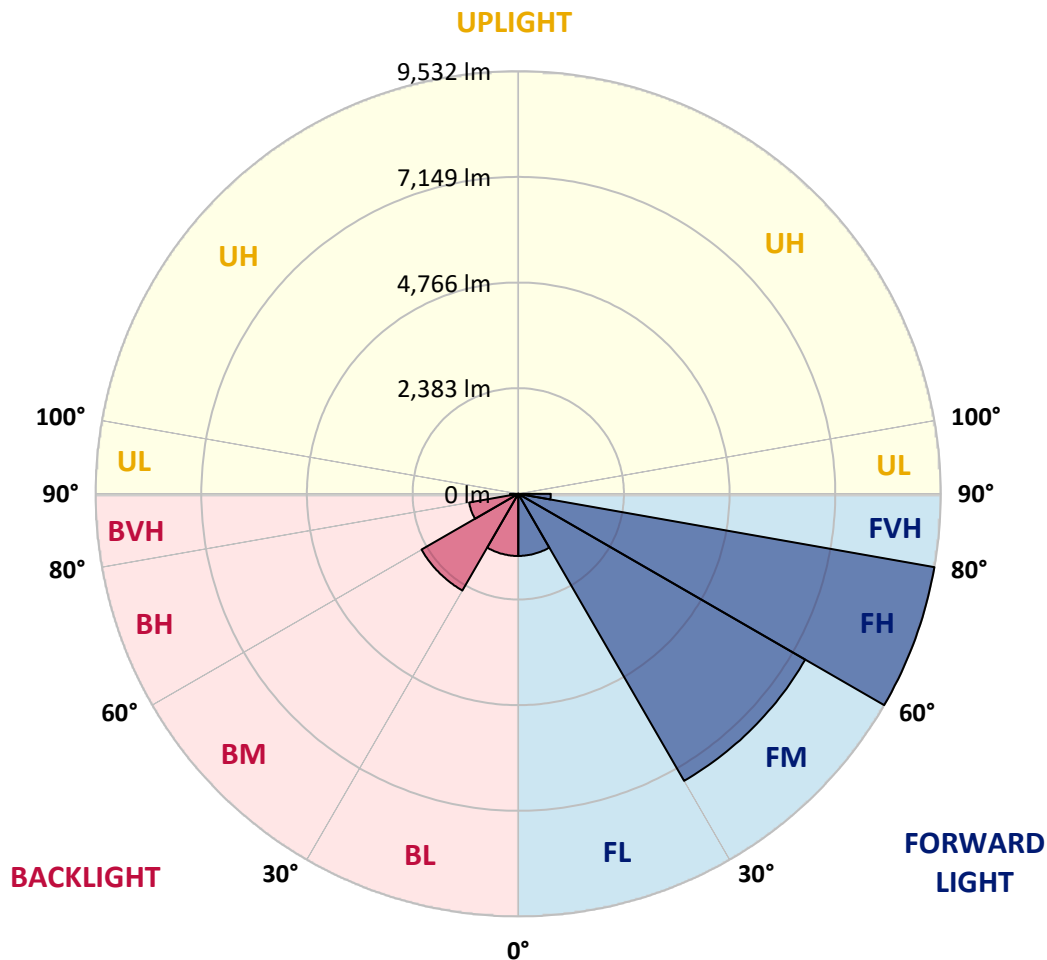


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1400.1	5.7			
FM (30°-60°)	7475.9	30.7			
FH (60°-80°)	9532.3	39.1			G4/12000
FVH (80°-90°)	734.4	3.0			G4/750
BL (0°-30°)	1402.0	5.8	B3/2500		
BM (30°-60°)	2519.2	10.3	B3/5000		
BH (60°-80°)	1125.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	187.7	0.8			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3810.3	3810.3	3810.3	3810.3	3810.3	3810.3	3810.3	3810.3	3810.3	3810.3	3810.3
2.5°	3538.3	3524.8	3550.1	3553.4	3575.3	3583.8	3614.1	3661.2	3700.0	3744.6	3785.0
5°	3217.5	3208.2	3243.6	3268.8	3316.8	3337.0	3408.6	3508.8	3598.1	3699.1	3790.9
7.5°	2912.6	2907.6	2947.2	3004.4	3060.0	3087.8	3211.6	3357.2	3506.3	3669.6	3810.3
10°	2655.8	2654.1	2692.0	2748.4	2830.1	2861.3	3021.3	3213.3	3422.1	3646.9	3843.1
12.5°	2511.8	2517.7	2535.4	2582.6	2658.3	2689.5	2867.2	3092.8	3351.3	3639.3	3891.1
15°	2547.2	2556.5	2526.1	2524.5	2578.3	2602.8	2769.5	3006.9	3300.8	3652.0	3961.0
17.5°	2697.9	2699.6	2619.6	2569.1	2601.9	2614.6	2739.2	2958.1	3271.4	3680.6	4048.6
20°	2910.1	2905.9	2764.4	2680.2	2697.9	2701.3	2782.1	2959.0	3268.8	3730.3	4162.2
22.5°	3191.4	3160.2	2969.9	2855.4	2851.2	2846.1	2892.4	3021.3	3305.9	3811.1	4297.8
25°	3558.5	3529.0	3267.1	3110.5	3076.8	3064.2	3070.9	3154.3	3379.1	3897.8	4449.4
27.5°	3966.9	3915.5	3662.9	3441.4	3371.6	3353.9	3313.5	3342.1	3459.1	3981.2	4629.6
30°	4308.8	4281.0	4060.3	3797.6	3715.1	3689.8	3583.8	3552.6	3574.5	4094.9	4856.9
32.5°	4499.9	4481.4	4347.5	4135.3	4058.7	4023.3	3873.4	3811.1	3759.7	4274.2	5165.1
35°	4731.5	4719.7	4638.8	4484.7	4371.1	4334.0	4217.8	4153.0	4020.8	4520.9	5563.4
37.5°	5026.2	5013.5	5015.2	4890.6	4755.0	4720.5	4643.9	4575.7	4359.3	4845.1	5996.2
40°	5359.6	5335.2	5325.9	5320.1	5234.2	5214.8	5174.4	5081.8	4783.7	5232.5	6423.1
42.5°	5861.5	5774.8	5589.5	5659.4	5744.4	5734.3	5767.2	5634.1	5255.2	5690.6	6839.9
45°	6345.7	6203.4	5883.4	5898.5	6084.6	6141.0	6386.9	6292.6	5766.3	6192.4	7271.1
47.5°	6566.3	6458.5	6186.5	6187.4	6371.8	6488.8	7027.7	6960.4	6303.6	6762.5	7797.4
50°	6813.0	6705.2	6461.0	6552.8	6713.6	6838.3	7646.6	7612.1	6814.7	7386.4	8428.0
52.5°	7082.5	6899.7	6744.8	6909.0	7134.7	7279.5	8266.4	8172.1	7283.7	8014.6	9153.0
55°	7085.8	7036.1	7154.0	7274.4	7612.1	7789.8	8915.6	8666.3	7666.0	8631.8	9743.3
57.5°	7489.2	7408.3	7658.4	7714.0	8155.2	8355.6	9561.4	9096.6	8055.0	9105.1	10061.6
60°	8023.0	7954.0	8158.6	8305.1	8827.2	9094.9	10251.1	9538.7	8360.7	9462.1	10046.5
62.5°	8945.1	8866.8	8864.2	9069.7	9772.8	10084.4	11024.9	9972.4	8481.9	9532.8	9617.9
65°	10294.9	10170.2	9935.3	10033.0	11078.8	11389.5	11889.7	10286.4	8321.9	9153.9	8513.9
67.5°	11608.5	11604.2	11315.4	11515.8	12803.3	13052.6	12874.9	10317.6	7822.6	7834.4	6555.3
70°	12917.8	12934.7	12885.8	13583.1	15133.3	15392.6	13924.1	9899.1	6700.2	5657.7	3927.3
72.5°	13955.2	13951.0	14196.9	15994.7	18157.1	18099.0	14808.2	8631.0	4810.6	3054.1	1876.9
75°	13283.3	13136.8	13869.4	17188.7	19919.5	19635.7	14056.3	6020.6	2496.7	1390.2	1010.5
77.5°	8663.8	8802.8	9878.1	14199.4	17423.6	17078.4	10312.5	2809.1	1176.3	911.9	732.6
80°	3137.5	3284.0	4625.4	8043.2	12004.2	11947.8	5078.4	1154.4	795.7	688.8	533.9
82.5°	1079.5	1133.4	1824.7	3572.0	6777.6	7030.2	1910.6	656.0	578.5	488.4	365.4
85°	423.5	485.0	834.5	1718.6	3418.7	3444.0	773.8	392.4	402.5	320.0	200.4
87.5°	160.8	195.4	399.1	798.3	1561.2	1434.0	277.0	186.9	229.0	190.3	95.2
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°	3810.3	3810.3	3810.3	3810.3	3810.3	3810.3	3810.3	3810.3	3810.3	3810.3	3810.3
2.5°	3816.2	3833.8	3870.9	3896.2	3923.1	3930.7	3934.0	3940.8	3947.5	3945.0	3945.8
5°	3839.7	3874.3	3934.0	3959.3	3971.1	3957.6	3931.5	3910.5	3895.3	3886.9	3884.4
7.5°	3878.5	3927.3	3991.3	3987.1	3960.1	3900.4	3833.0	3782.5	3740.4	3725.2	3716.8
10°	3929.8	3987.1	4031.7	3983.7	3905.4	3801.8	3700.8	3622.5	3559.3	3534.9	3530.7
12.5°	3995.5	4053.6	4062.0	3960.1	3830.5	3689.0	3551.8	3448.2	3353.9	3323.6	3316.8
15°	4080.6	4135.3	4083.1	3918.9	3737.8	3547.5	3369.9	3229.2	3129.9	3092.8	3079.4
17.5°	4169.8	4222.0	4087.3	3850.7	3616.6	3380.0	3156.8	3012.8	2899.2	2856.2	2851.2
20°	4276.8	4300.3	4069.6	3753.0	3449.9	3162.7	2927.8	2792.2	2731.6	2701.3	2697.9
22.5°	4409.0	4383.7	4029.2	3620.8	3238.5	2911.8	2720.7	2657.5	2642.3	2635.6	2638.1
25°	4548.7	4471.3	3969.4	3448.2	2971.6	2660.9	2569.1	2586.8	2607.0	2604.5	2604.5
27.5°	4702.8	4560.5	3877.6	3219.1	2676.0	2455.4	2466.4	2531.2	2561.5	2560.7	2559.8
30°	4900.7	4661.6	3760.6	2943.8	2399.8	2310.6	2377.1	2456.3	2497.5	2495.8	2496.7
32.5°	5144.1	4772.7	3601.4	2636.4	2200.3	2203.6	2280.3	2358.6	2406.6	2402.4	2403.2
35°	5428.7	4897.3	3385.9	2333.3	2068.1	2118.6	2179.2	2234.0	2279.4	2273.5	2267.6
37.5°	5738.5	5019.4	3099.6	2062.2	1960.3	2039.4	2090.0	2099.2	2120.3	2105.1	2094.2
40°	6033.3	5112.9	2730.8	1839.9	1851.7	1972.1	2004.9	1967.9	1930.0	1924.9	1909.8
42.5°	6290.1	5144.1	2357.7	1662.2	1737.1	1901.3	1921.6	1844.1	1775.9	1743.9	1730.4
45°	6561.2	5155.0	2010.0	1513.2	1626.8	1838.2	1860.1	1756.5	1660.5	1591.5	1568.7
47.5°	6915.7	5234.2	1739.7	1402.8	1542.6	1796.1	1827.2	1686.6	1562.0	1463.5	1442.4
50°	7379.7	5390.8	1519.9	1318.6	1487.9	1768.3	1803.7	1618.4	1481.2	1362.4	1341.4
52.5°	7895.0	5534.8	1342.2	1250.4	1434.8	1719.5	1773.4	1569.6	1405.4	1269.0	1246.2
55°	8255.4	5424.5	1199.1	1179.7	1365.8	1649.6	1731.2	1528.3	1296.8	1178.0	1157.8
57.5°	8324.5	5047.2	1090.5	1106.4	1282.4	1562.0	1666.4	1436.5	1237.8	1138.4	1117.4
60°	8135.9	4521.8	1009.6	1039.1	1193.2	1451.7	1545.2	1371.7	1181.4	1096.3	1078.7
62.5°	7661.8	3983.7	949.8	978.5	1109.8	1339.7	1469.4	1303.5	1124.1	1048.3	1030.7
65°	6704.4	3344.6	892.6	924.6	1032.3	1242.9	1401.2	1240.3	1067.7	1009.6	992.8
67.5°	5060.7	2505.1	838.7	867.3	963.3	1158.7	1327.1	1178.0	1013.0	975.9	955.7
70°	2980.0	1568.7	777.2	807.5	890.9	1071.1	1247.9	1109.8	944.8	927.9	901.8
72.5°	1386.9	943.9	707.3	736.8	799.9	954.0	1146.0	1020.6	863.9	826.9	791.5
75°	827.7	690.5	624.8	650.9	695.5	829.4	1018.0	929.6	787.3	738.5	701.4
77.5°	618.9	528.0	533.9	561.6	597.9	725.8	901.8	858.0	728.4	690.5	665.2
80°	445.4	400.8	435.3	465.7	503.5	660.2	863.9	793.2	658.5	608.0	584.4
82.5°	297.2	288.0	327.6	358.7	395.8	577.6	811.7	694.7	562.5	498.5	446.3
85°	164.2	173.5	220.6	234.1	266.1	406.7	665.2	558.3	423.5	341.0	325.9
87.5°	68.2	80.0	118.7	114.5	141.5	242.5	437.9	336.8	269.5	201.2	156.6
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)