

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: P383597

Luminaire Tested: **GLEON-SA8D-735-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8D-735-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60348.4 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

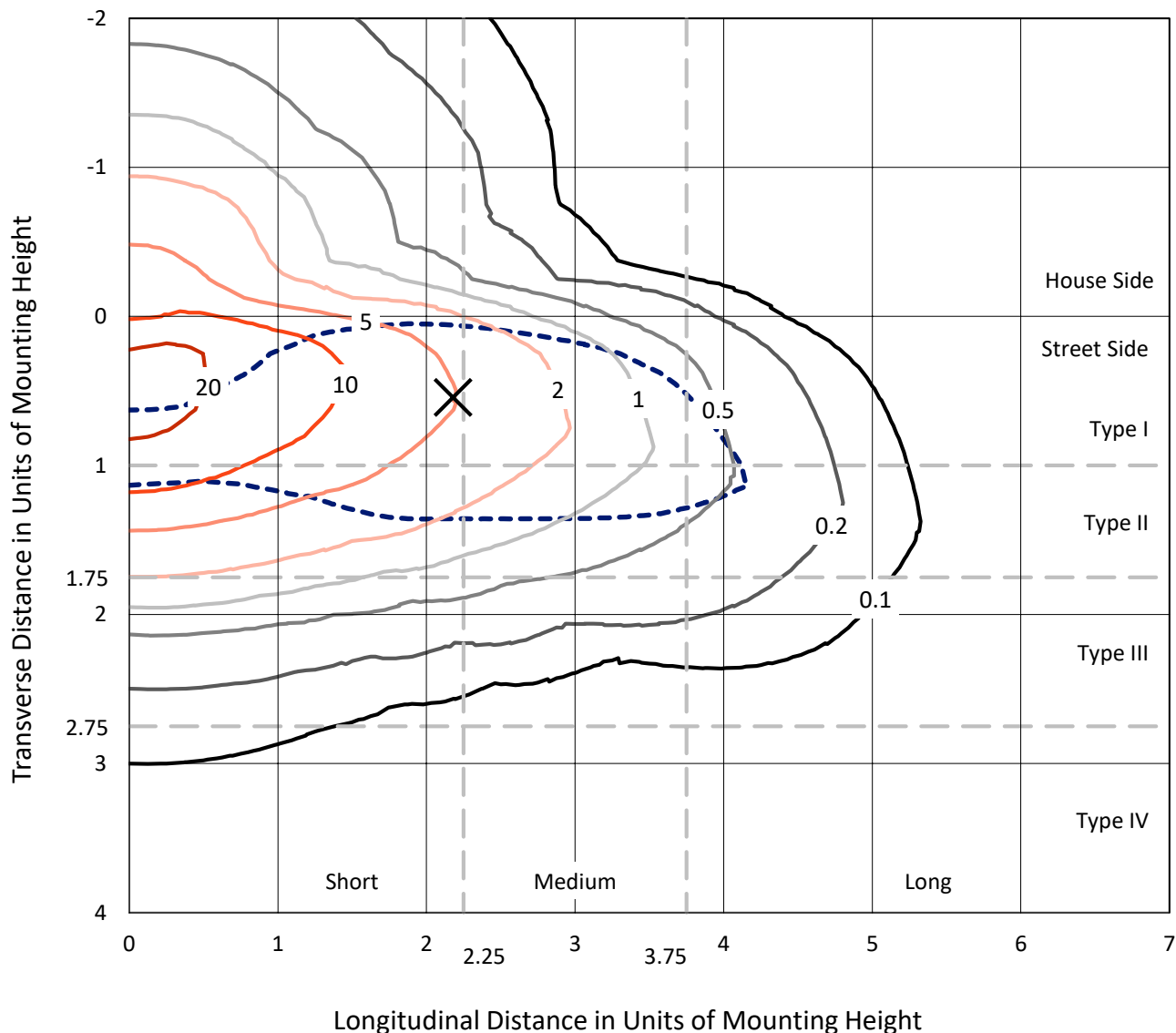
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383597
 CATALOG NUMBER: GLEON-SA8D-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

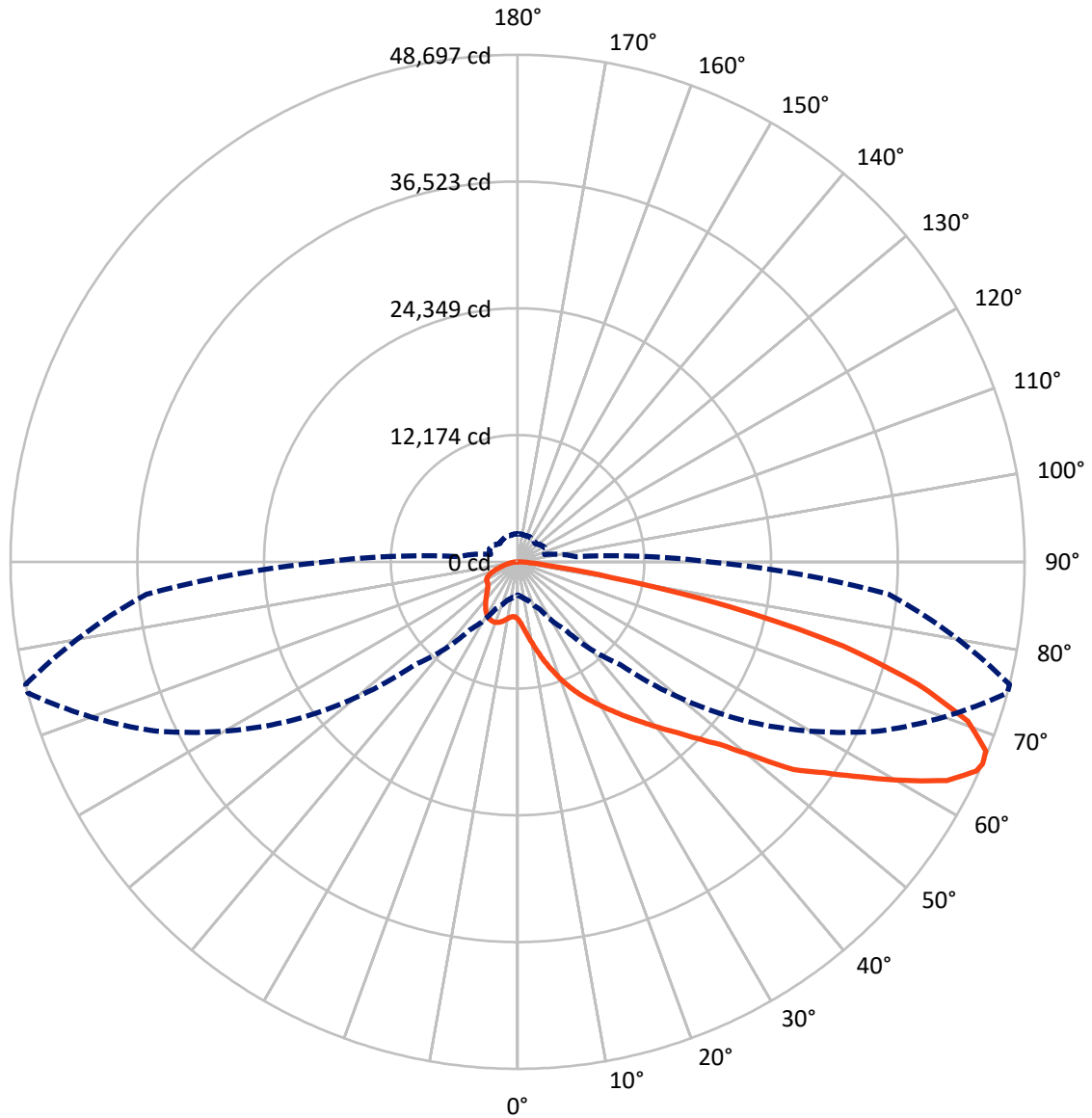
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Short - N/A

REPORT NUMBER: P383597
CATALOG NUMBER: GLEON-SA8D-735-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P383597
 CATALOG NUMBER: GLEON-SA8D-735-U-T2R

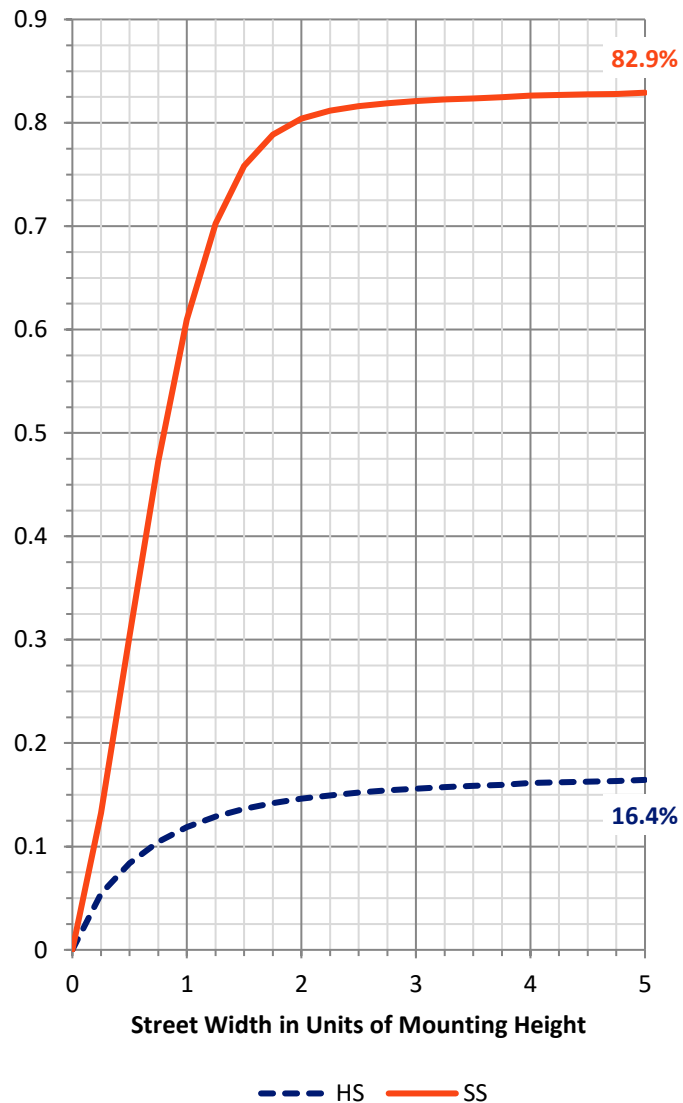
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10154.6	0.0	10154.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	50193.9	0.0	50193.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	60348.4	0.0	60348.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.4	1.1
10°-20°	2631.8	4.4
20°-30°	5114.2	8.5
30°-40°	8347.4	13.8
40°-50°	11404.6	18.9
50°-60°	13284.1	22.0
60°-70°	11909.4	19.7
70°-80°	6018.5	10.0
80°-90°	971.9	1.6
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°	60348.4	100.0
0°-180°	60348.4	100.0

Coefficient of Utilization

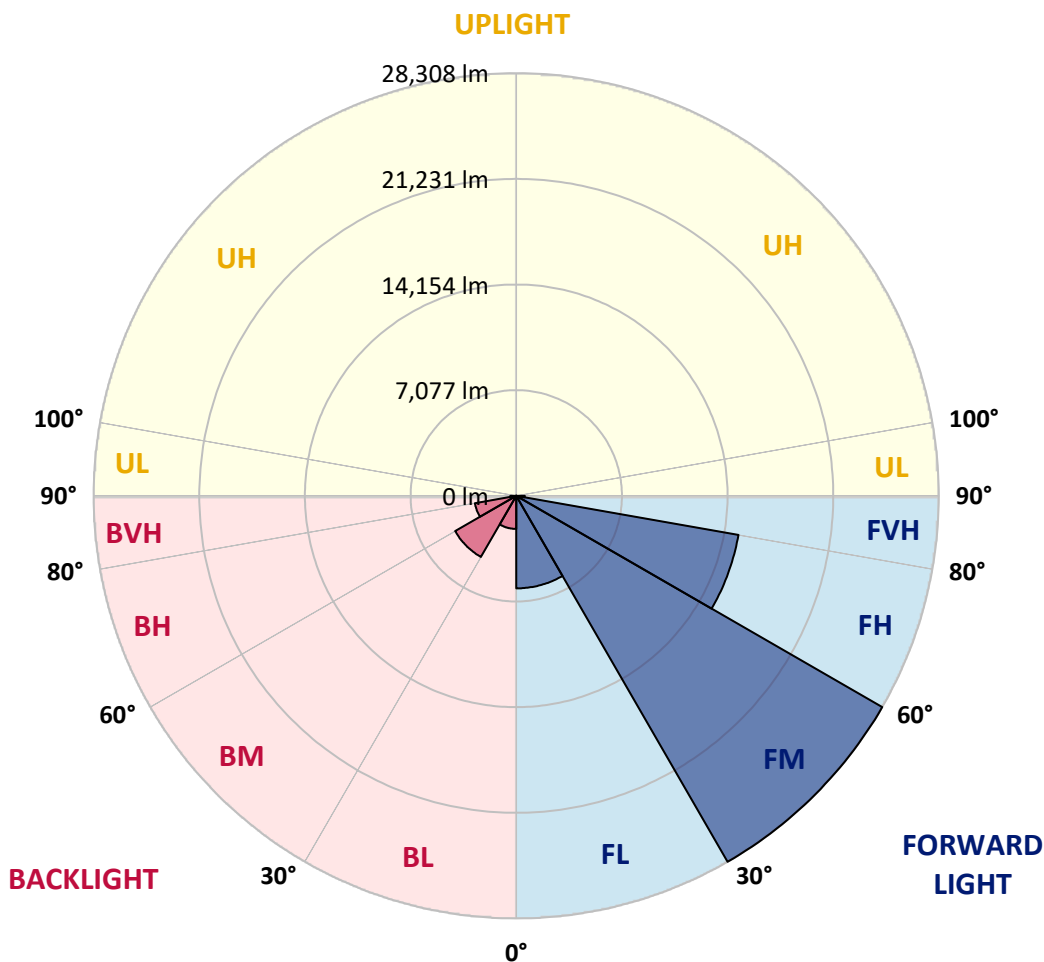


REPORT NUMBER: P383597
 CATALOG NUMBER: GLEON-SA8D-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6197.6	10.3			
FM (30°-60°)	28307.6	46.9			
FH (60°-80°)	15114.7	25.0			G5
FVH (80°-90°)	574.0	1.0			G4/750
BL (0°-30°)	2214.8	3.7	B3/2500		
BM (30°-60°)	4728.6	7.8	B3/5000		
BH (60°-80°)	2813.3	4.7	B4/5000		G4/5000
BVH (80°-90°)	397.9	0.7			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 II Short





REPORT NUMBER: P383597
 CATALOG NUMBER: GLEON-SA8D-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1
2.5°	7316.1	7205.5	7195.3	7033.4	6996.6	6687.2	6459.7	6222.1	5951.7	5898.4	5685.3
5°	9397.6	9387.4	9246.1	8981.8	8774.9	8246.2	7723.8	7170.7	6564.2	6465.9	5986.5
7.5°	11270.2	11253.8	11145.3	10860.5	10561.4	9911.9	9166.1	8318.0	7334.5	7189.1	6394.2
10°	12692.1	12685.9	12649.1	12440.1	12186.0	11563.2	10739.6	9582.1	8229.9	8031.2	6904.4
12.5°	13790.3	13802.6	13827.1	13753.4	13632.5	13101.8	12257.8	10921.9	9184.6	8987.9	7471.9
15°	14533.9	14570.8	14697.9	14802.3	14865.8	14540.1	13722.6	12292.6	10254.1	10018.4	8100.8
17.5°	14908.9	14949.8	15169.0	15484.6	15775.5	15742.7	15093.2	13599.7	11280.5	11053.1	8776.9
20°	15232.6	15263.3	15509.1	15888.2	16402.4	16629.8	16265.1	14857.6	12405.2	12134.8	9494.0
22.5°	16170.9	16209.9	16283.5	16498.7	16953.5	17371.5	17195.3	16048.0	13435.8	13183.8	10174.2
25°	17982.0	18029.1	17869.3	17687.0	17773.0	18063.9	18096.7	17133.8	14480.6	14195.9	10905.5
27.5°	20163.9	20231.5	19959.1	19489.9	19080.1	18967.4	18928.5	18022.9	15478.4	15148.5	11628.8
30°	22300.8	22417.6	22063.1	21454.7	20702.7	20174.2	19782.9	18893.7	16461.8	16146.3	12311.1
32.5°	24388.5	24341.3	23827.1	23233.0	22352.0	21690.2	20743.7	19827.9	17568.1	17205.5	12989.1
35°	25818.5	25834.9	25357.6	24652.8	23812.8	23304.7	22030.4	20835.9	18697.0	18363.0	13759.5
37.5°	27035.5	26959.6	26418.8	25761.1	25038.0	24820.8	23536.2	21946.3	19920.1	19555.4	14579.0
40°	27441.2	27353.0	26998.6	26525.4	25945.6	25927.1	25197.7	23204.3	21303.0	20942.5	15503.0
42.5°	27195.3	27082.6	26937.2	26808.1	26629.9	26711.8	26758.9	24679.4	22823.2	22419.6	16572.4
45°	26287.7	26117.6	26220.1	26500.8	26888.0	27351.0	28168.4	26312.3	24525.8	24187.7	17828.3
47.5°	24892.4	24738.8	25058.4	25658.7	26711.8	27883.6	29502.2	28115.2	26558.1	26222.1	19616.9
50°	22929.8	22974.9	23431.7	24523.7	26115.6	28129.6	31145.3	30502.0	29512.5	29199.0	22057.0
52.5°	19709.1	19717.3	21003.9	22796.6	25058.4	28002.5	32057.0	33552.6	33546.4	33167.5	24380.3
55°	16717.9	16900.2	17918.5	20301.2	23345.7	27494.4	32694.2	35035.9	36195.5	35750.9	26545.8
57.5°	13796.4	13902.9	14867.9	17260.8	20901.5	26140.2	33347.7	36816.3	39248.1	38967.5	29237.9
60°	10473.3	10637.2	11634.9	13845.5	17775.0	23737.0	33409.2	38674.5	42897.0	42614.3	32243.5
62.5°	6797.8	7080.5	8014.8	10086.1	13993.1	20280.7	31983.3	39889.4	46355.3	46255.0	34911.0
65°	3907.0	4120.0	4769.5	6367.6	9653.8	15941.4	28592.5	39422.3	48484.0	48426.6	35908.6
66°	3191.9	3325.2	3823.0	4976.4	7965.6	13999.2	26621.7	38436.9	48695.0	48697.0	35794.0
67.5°	2552.7	2612.2	2835.4	3562.8	5877.9	11096.1	23099.8	36263.1	48432.7	48504.5	35054.3
70°	2112.3	2143.0	2212.7	2388.9	3208.3	6691.3	16396.3	30614.7	45800.1	45855.4	32167.6
72.5°	1895.1	1913.6	1940.1	1964.7	2263.8	3739.0	10014.3	24490.9	40155.8	40227.5	27769.0
75°	1716.8	1727.1	1723.0	1725.0	1899.2	2382.7	5175.2	18285.3	32468.8	32325.4	21272.4
77.5°	1507.9	1518.1	1497.6	1501.7	1680.0	1831.6	2575.3	12800.7	21911.5	20899.5	11985.3
80°	1274.4	1282.6	1274.4	1288.7	1462.8	1382.9	1497.6	7201.4	9688.6	9164.1	4261.5
82.5°	962.9	997.8	1022.4	1079.7	1204.7	983.4	1001.9	2804.8	2950.2	2808.9	1307.1
85°	422.1	514.2	770.3	825.6	905.6	590.0	657.7	1143.2	1200.6	1163.7	475.3
87.5°	110.7	120.9	381.1	479.4	501.9	266.3	342.2	520.4	549.1	520.4	157.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P383597
 CATALOG NUMBER: GLEON-SA8D-735-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1	5511.1
2.5°	5572.6	5472.3	5291.9	5132.2	5011.3	4929.3	4847.4	4806.4	4781.8	4757.2	4761.3
5°	5750.9	5548.0	5238.7	5019.5	4896.6	4818.7	4777.7	4761.3	4751.1	4726.5	4726.5
7.5°	6019.3	5732.5	5306.3	5080.9	4984.6	4925.2	4900.7	4892.5	4880.2	4851.5	4855.6
10°	6357.3	5955.8	5447.7	5228.4	5140.4	5074.8	5040.0	5027.7	5005.1	4972.3	4976.4
12.5°	6754.7	6232.3	5634.1	5404.7	5298.1	5210.1	5152.7	5117.8	5078.9	5035.9	5037.9
15°	7189.1	6533.5	5834.8	5562.4	5416.9	5294.0	5201.9	5142.4	5080.9	5027.7	5025.6
17.5°	7629.6	6824.4	5988.5	5648.4	5451.8	5289.9	5165.0	5072.7	4996.9	4931.3	4925.2
20°	8104.9	7086.7	6074.6	5640.2	5386.2	5193.7	5027.7	4912.9	4829.0	4763.4	4753.1
22.5°	8588.4	7332.5	6089.0	5556.2	5240.7	5005.1	4831.0	4703.9	4617.9	4550.3	4525.7
25°	9031.0	7523.1	6029.5	5394.4	5037.9	4783.9	4613.9	4484.7	4415.1	4335.1	4310.6
27.5°	9434.5	7656.2	5910.7	5187.5	4810.5	4560.6	4400.7	4290.1	4214.3	4152.8	4132.3
30°	9797.2	7727.9	5716.1	4941.6	4577.0	4349.5	4214.3	4138.5	4072.9	3995.1	3980.8
32.5°	10141.4	7727.9	5466.1	4673.2	4345.4	4163.1	4083.2	4036.0	3962.3	3886.5	3866.0
35°	10485.6	7680.8	5171.1	4392.5	4132.3	4029.9	4025.8	3970.5	3857.8	3755.3	3728.7
37.5°	10848.2	7584.6	4839.2	4130.3	3958.2	3970.5	4005.4	3882.4	3722.6	3577.1	3538.2
40°	11257.9	7451.4	4495.0	3902.9	3812.7	3943.9	3950.0	3755.3	3443.9	3310.8	3276.0
42.5°	11739.5	7318.1	4175.4	3702.2	3698.1	3864.0	3845.5	3480.8	3294.4	3226.8	3208.3
45°	12372.4	7242.4	3872.2	3511.6	3607.9	3734.9	3667.3	3329.3	3251.4	3212.4	3196.0
47.5°	13370.2	7281.3	3593.5	3360.0	3517.7	3605.8	3335.4	3267.8	3212.4	3165.3	3148.9
50°	14620.0	7258.8	3368.2	3255.5	3415.3	3470.6	3185.8	3187.8	3159.2	3106.0	3081.4
52.5°	15560.4	7082.6	3222.7	3196.0	3325.2	3230.9	3091.6	3110.1	3095.7	3017.8	2991.2
55°	16468.0	6931.0	3148.9	3173.5	3259.6	2931.8	2981.0	3026.0	3011.7	2935.9	2923.6
57.5°	17596.8	6902.3	3103.9	3179.7	3204.2	2782.3	2874.4	2933.8	2923.6	2890.8	2884.6
60°	18979.7	6910.5	3062.9	3189.9	3142.8	2671.6	2774.1	2849.8	2855.9	2849.8	2845.7
62.5°	19739.9	6687.2	2960.5	3161.2	3034.2	2575.3	2669.5	2780.2	2782.3	2794.5	2792.5
65°	19094.5	6019.3	2770.0	3060.9	2851.8	2495.4	2579.4	2700.3	2669.5	2724.9	2724.9
66°	18467.6	5634.1	2675.7	2995.3	2774.1	2464.7	2550.7	2659.3	2620.4	2696.2	2696.2
67.5°	17187.1	4984.6	2505.7	2855.9	2663.4	2421.7	2518.0	2591.7	2538.4	2651.1	2642.9
70°	14847.4	3855.8	2163.5	2540.4	2481.1	2358.1	2472.9	2456.5	2378.6	2550.7	2518.0
72.5°	12518.0	2929.7	1737.3	2126.6	2204.5	2278.2	2409.4	2284.3	2186.1	2306.9	2235.2
75°	9713.2	2202.5	1372.6	1653.3	1862.3	2153.3	2333.5	2085.6	1944.2	1932.0	1893.1
77.5°	5250.9	1512.0	1087.9	1262.1	1479.2	1997.5	2282.3	1872.6	1659.5	1610.4	1579.6
80°	2079.5	983.4	790.8	956.8	1034.7	1772.2	2159.4	1624.7	1368.5	1319.4	1272.3
82.5°	858.4	581.8	510.1	641.3	674.1	1516.1	1938.1	1331.7	1057.1	1462.8	1553.0
85°	368.8	319.6	303.2	331.9	381.1	1063.3	1542.7	1016.2	1141.1	1018.3	809.2
87.5°	110.7	135.3	129.1	127.1	139.4	254.0	821.5	565.4	837.9	317.6	237.6
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)