

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: P317564

Luminaire Tested: **GLEON-SA0B-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317564
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-SA0B-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43320 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

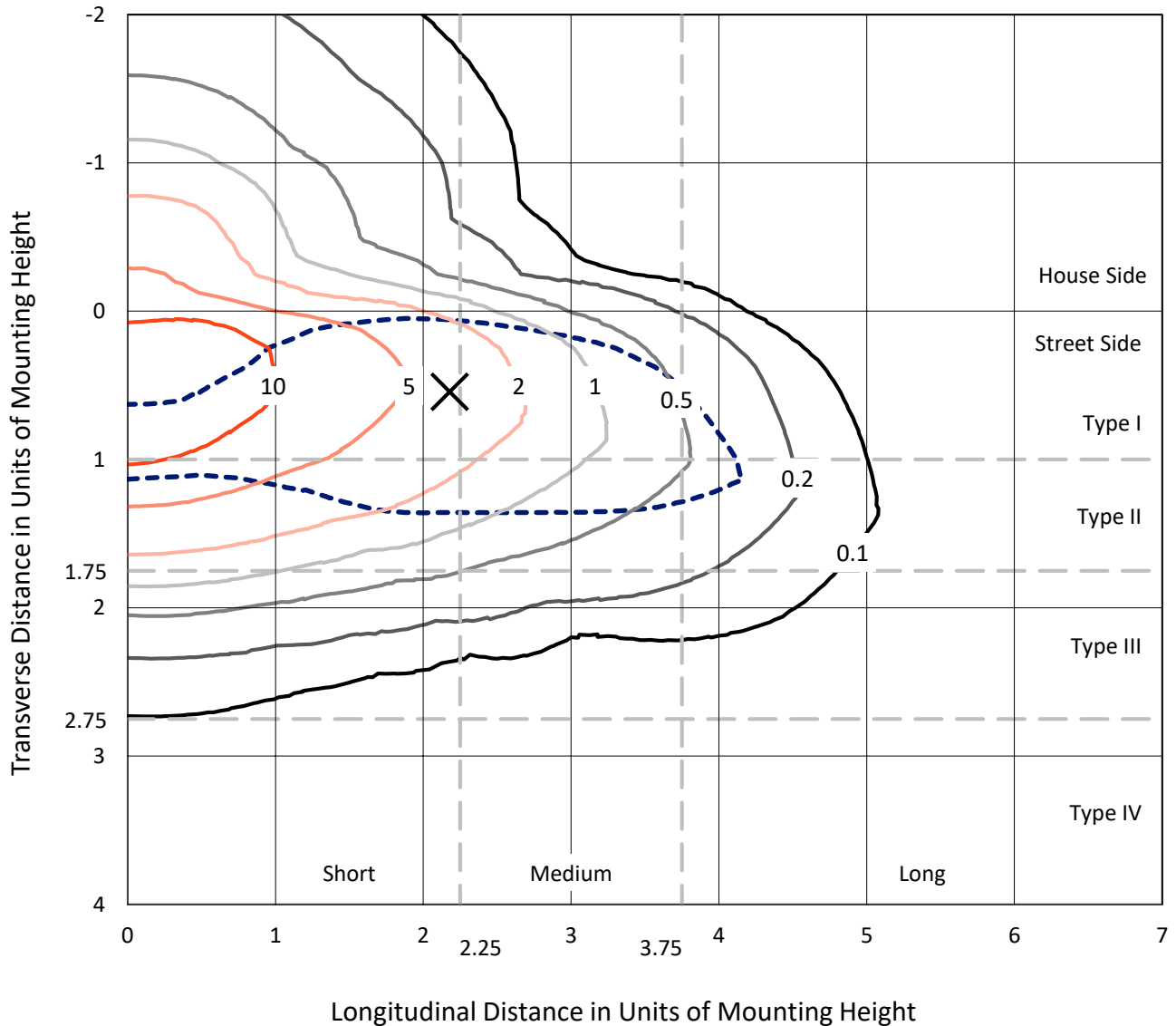
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317564
 CATALOG NUMBER: GLEON-SA0B-827-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

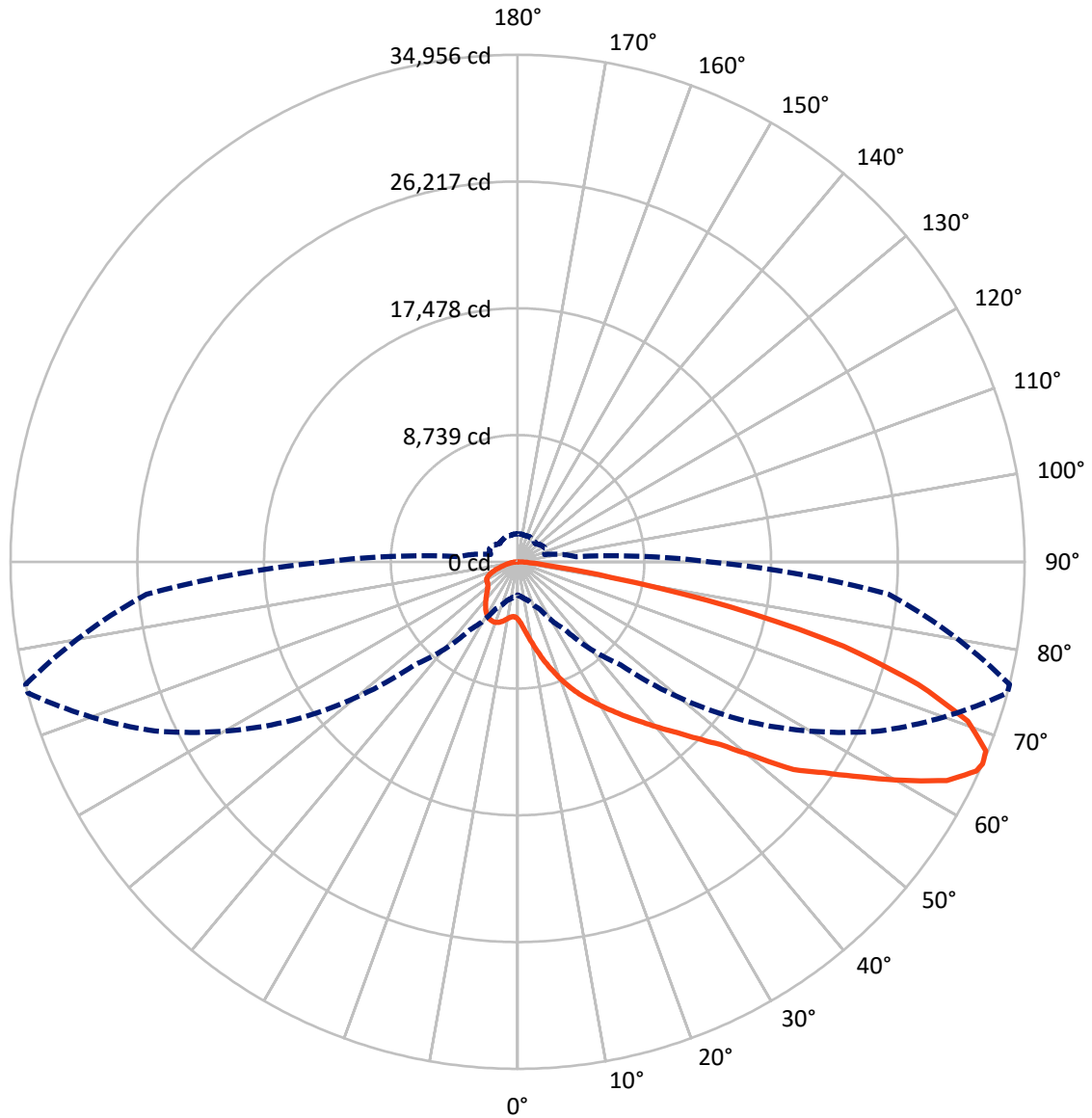
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

REPORT NUMBER: P317564
CATALOG NUMBER: GLEON-SA0B-827-U-T2R

Luminous Intensity Polar Plot



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

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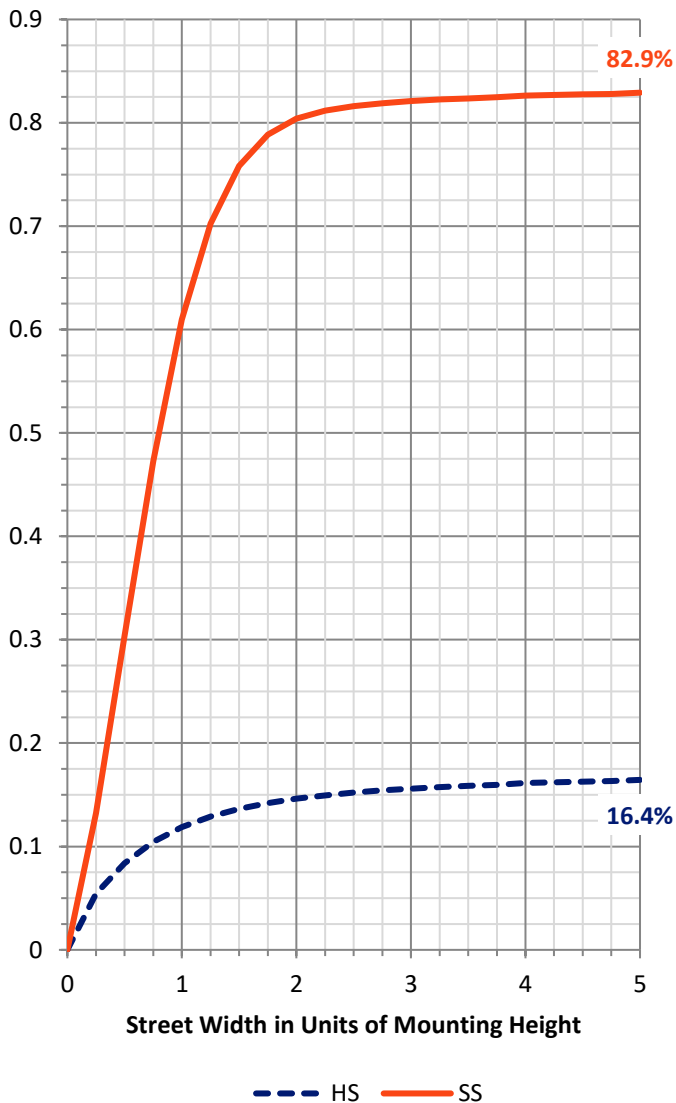
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7289.3	0.0	7289.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	36030.7	0.0	36030.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	43320.0	0.0	43320.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.4	1.1
10°-20°	1889.2	4.4
20°-30°	3671.1	8.5
30°-40°	5992.1	13.8
40°-50°	8186.6	18.9
50°-60°	9535.7	22.0
60°-70°	8549.0	19.7
70°-80°	4320.3	10.0
80°-90°	697.7	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°	43320.0	100.0
0°-180°	43320.0	100.0



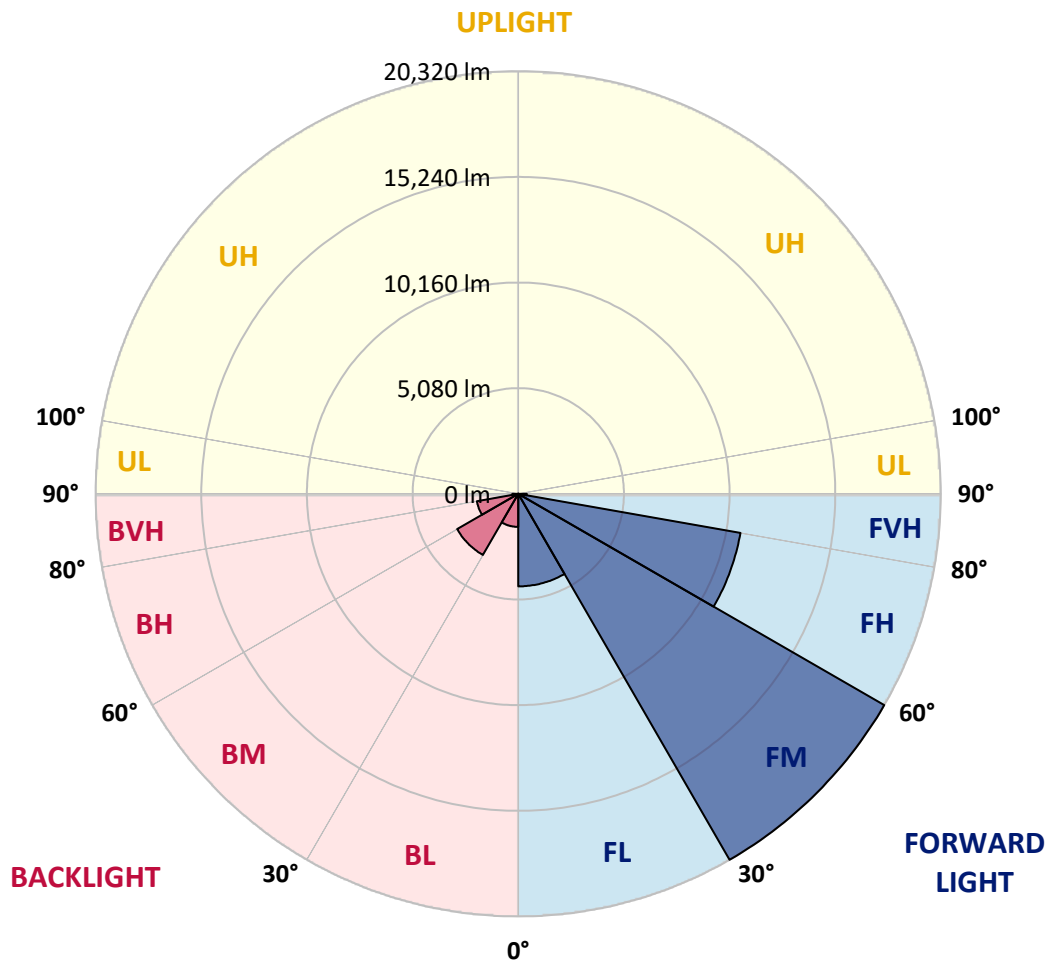
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 CATALOG NUMBER: GLEON-SA0B-827-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4448.8	10.3			
FM (30°-60°)	20320.1	46.9			
FH (60°-80°)	10849.8	25.0			G4/12000
FVH (80°-90°)	412.0	1.0			G3/500
BL (0°-30°)	1589.8	3.7	B3/2500		
BM (30°-60°)	3394.3	7.8	B3/5000		
BH (60°-80°)	2019.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	285.7	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P317564

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3956.1	3956.1	3956.1	3956.1	3956.1	3956.1	3956.1	3956.1	3956.1	3956.1	3956.1
2.5°	5251.8	5172.3	5165.0	5048.8	5022.3	4800.3	4637.0	4466.4	4272.3	4234.0	4081.1
5°	6745.9	6738.6	6637.1	6447.4	6298.9	5919.4	5544.4	5147.3	4712.0	4641.4	4297.3
7.5°	8090.1	8078.4	8000.4	7796.0	7581.3	7115.1	6579.8	5970.9	5265.0	5160.6	4590.0
10°	9110.8	9106.4	9079.9	8929.9	8747.5	8300.4	7709.2	6878.3	5907.7	5765.0	4956.1
12.5°	9899.1	9907.9	9925.5	9872.6	9785.8	9404.9	8799.0	7840.1	6593.0	6451.8	5363.5
15°	10432.9	10459.4	10550.6	10625.6	10671.2	10437.3	9850.5	8824.0	7360.7	7191.6	5815.0
17.5°	10702.0	10731.5	10888.8	11115.3	11324.1	11300.6	10834.4	9762.3	8097.5	7934.2	6300.3
20°	10934.4	10956.5	11132.9	11405.0	11774.2	11937.4	11675.6	10665.3	8904.9	8710.8	6815.1
22.5°	11608.0	11635.9	11688.9	11843.3	12169.8	12469.8	12343.3	11519.7	9644.6	9463.7	7303.3
25°	12908.0	12941.9	12827.2	12696.3	12758.0	12966.9	12990.4	12299.2	10394.7	10190.2	7828.4
27.5°	14474.3	14522.8	14327.2	13990.5	13696.3	13615.4	13587.5	12937.5	11110.9	10874.1	8347.5
30°	16008.2	16092.0	15837.6	15400.8	14861.1	14481.7	14200.8	13562.5	11816.8	11590.3	8837.2
32.5°	17506.8	17473.0	17103.9	16677.4	16045.0	15569.9	14890.5	14233.1	12611.0	12350.7	9324.0
35°	18533.3	18545.1	18202.4	17696.5	17093.6	16728.8	15814.1	14956.7	13421.3	13181.6	9877.0
37.5°	19406.9	19352.5	18964.2	18492.2	17973.0	17817.1	16895.0	15753.8	14299.3	14037.5	10465.3
40°	19698.1	19634.9	19380.4	19040.7	18624.5	18611.3	18087.7	16656.8	15292.0	15033.2	11128.5
42.5°	19521.6	19440.7	19336.3	19243.7	19115.7	19174.6	19208.4	17715.6	16383.2	16093.5	11896.2
45°	18870.1	18748.1	18821.6	19023.1	19301.0	19633.4	20220.2	18887.8	17605.3	17362.7	12797.7
47.5°	17868.6	17758.3	17987.7	18418.6	19174.6	20015.8	21177.6	20182.0	19064.3	18823.1	14081.6
50°	16459.7	16492.1	16820.0	17603.9	18746.6	20192.3	22357.1	21895.3	21185.0	20959.9	15833.2
52.5°	14147.8	14153.7	15077.3	16364.1	17987.7	20101.1	23011.5	24085.1	24080.7	23808.6	17500.9
55°	12000.6	12131.5	12862.4	14572.8	16758.2	19736.3	23468.9	25149.9	25982.3	25663.1	19055.4
57.5°	9903.5	9979.9	10672.6	12390.4	15003.7	18764.2	23938.0	26427.9	28173.6	27972.1	20987.9
60°	7518.0	7635.7	8351.9	9938.8	12759.5	17039.1	23982.2	27761.8	30792.8	30589.9	23145.4
62.5°	4879.7	5082.6	5753.2	7240.1	10044.7	14558.1	22958.6	28633.9	33275.3	33203.2	25060.2
65°	2804.6	2957.5	3423.7	4570.8	6929.8	11443.3	20524.6	28298.6	34803.3	34762.1	25776.4
66°	2291.3	2386.9	2744.3	3572.2	5718.0	10049.1	19109.8	27591.2	34954.8	34956.3	25694.0
67.5°	1832.5	1875.1	2035.4	2557.5	4219.3	7965.1	16581.8	26030.8	34766.6	34818.0	25163.1
70°	1516.3	1538.3	1588.3	1714.8	2303.1	4803.2	11769.7	21976.2	32876.8	32916.5	23090.9
72.5°	1360.4	1373.6	1392.7	1410.4	1625.1	2684.0	7188.6	17580.3	28825.1	28876.5	19933.4
75°	1232.4	1239.8	1236.8	1238.3	1363.3	1710.4	3714.9	13125.7	23307.1	23204.2	15269.9
77.5°	1082.4	1089.8	1075.1	1078.0	1205.9	1314.8	1848.6	9188.7	15728.8	15002.3	8603.4
80°	914.8	920.6	914.8	925.0	1050.1	992.7	1075.1	5169.4	6954.8	6578.3	3059.0
82.5°	691.2	716.2	733.9	775.0	864.8	705.9	719.2	2013.3	2117.8	2016.3	938.3
85°	303.0	369.1	553.0	592.7	650.0	423.6	472.1	820.6	861.8	835.3	341.2
87.5°	79.4	86.8	273.5	344.1	360.3	191.2	245.6	373.5	394.1	373.5	113.2
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°	3956.1	3956.1	3956.1	3956.1	3956.1	3956.1	3956.1	3956.1	3956.1	3956.1	3956.1
2.5°	4000.2	3928.2	3798.7	3684.0	3597.3	3538.4	3479.6	3450.2	3432.5	3414.9	3417.8
5°	4128.2	3982.6	3760.5	3603.1	3514.9	3459.0	3429.6	3417.8	3410.5	3392.8	3392.8
7.5°	4320.8	4114.9	3809.0	3647.3	3578.1	3535.5	3517.8	3512.0	3503.1	3482.5	3485.5
10°	4563.5	4275.2	3910.5	3753.1	3689.9	3642.8	3617.8	3609.0	3592.8	3569.3	3572.2
12.5°	4848.8	4473.8	4044.3	3879.6	3803.1	3739.9	3698.7	3673.7	3645.8	3614.9	3616.4
15°	5160.6	4690.0	4188.5	3992.9	3888.4	3800.2	3734.0	3691.4	3647.3	3609.0	3607.5
17.5°	5476.8	4898.8	4298.8	4054.6	3913.4	3797.3	3707.6	3641.4	3587.0	3539.9	3535.5
20°	5818.0	5087.0	4360.5	4048.7	3866.4	3728.1	3609.0	3526.7	3466.4	3419.3	3411.9
22.5°	6165.0	5263.5	4370.8	3988.4	3762.0	3592.8	3467.8	3376.7	3314.9	3266.4	3248.7
25°	6482.7	5400.3	4328.2	3872.3	3616.4	3434.0	3311.9	3219.3	3169.3	3111.9	3094.3
27.5°	6772.4	5495.9	4242.9	3723.7	3453.1	3273.7	3159.0	3079.6	3025.2	2981.0	2966.3
30°	7032.7	5547.4	4103.2	3547.2	3285.5	3122.2	3025.2	2970.7	2923.7	2867.8	2857.5
32.5°	7279.8	5547.4	3923.7	3354.6	3119.3	2988.4	2931.0	2897.2	2844.3	2789.9	2775.1
35°	7526.9	5513.5	3712.0	3153.1	2966.3	2892.8	2889.9	2850.2	2769.3	2695.7	2676.6
37.5°	7787.2	5444.4	3473.7	2964.9	2841.3	2850.2	2875.2	2786.9	2672.2	2567.8	2539.8
40°	8081.3	5348.8	3226.6	2801.6	2736.9	2831.0	2835.4	2695.7	2472.2	2376.6	2351.6
42.5°	8426.9	5253.2	2997.2	2657.5	2654.6	2773.7	2760.4	2498.7	2364.8	2316.3	2303.1
45°	8881.4	5198.8	2779.6	2520.7	2589.8	2681.0	2632.5	2389.8	2333.9	2306.0	2294.2
47.5°	9597.6	5226.7	2579.5	2411.9	2525.1	2588.4	2394.2	2345.7	2306.0	2272.2	2260.4
50°	10494.7	5210.6	2417.8	2336.9	2451.6	2491.3	2286.9	2288.4	2267.8	2229.5	2211.9
52.5°	11169.7	5084.1	2313.4	2294.2	2386.9	2319.2	2219.2	2232.5	2222.2	2166.3	2147.2
55°	11821.2	4975.3	2260.4	2278.1	2339.8	2104.5	2139.8	2172.2	2161.9	2107.5	2098.6
57.5°	12631.6	4954.7	2228.1	2282.5	2300.1	1997.2	2063.3	2106.0	2098.6	2075.1	2070.7
60°	13624.3	4960.6	2198.6	2289.8	2256.0	1917.7	1991.3	2045.7	2050.1	2045.7	2042.8
62.5°	14169.9	4800.3	2125.1	2269.2	2178.1	1848.6	1916.3	1995.7	1997.2	2006.0	2004.5
65°	13706.6	4320.8	1988.3	2197.2	2047.2	1791.3	1851.6	1938.3	1916.3	1956.0	1956.0
66°	13256.6	4044.3	1920.7	2150.1	1991.3	1769.2	1831.0	1908.9	1881.0	1935.4	1935.4
67.5°	12337.4	3578.1	1798.6	2050.1	1911.9	1738.3	1807.4	1860.4	1822.2	1903.0	1897.2
70°	10657.9	2767.8	1553.0	1823.6	1781.0	1692.7	1775.1	1763.3	1707.4	1831.0	1807.4
72.5°	8985.8	2103.1	1247.1	1526.6	1582.4	1635.4	1729.5	1639.8	1569.2	1656.0	1604.5
75°	6972.4	1581.0	985.3	1186.8	1336.8	1545.7	1675.1	1497.1	1395.7	1386.8	1358.9
77.5°	3769.3	1085.4	780.9	905.9	1061.8	1433.9	1638.3	1344.2	1191.2	1155.9	1133.9
80°	1492.7	705.9	567.7	686.8	742.7	1272.1	1550.1	1166.2	982.4	947.1	913.3
82.5°	616.2	417.7	366.2	460.3	483.8	1088.3	1391.3	955.9	758.9	1050.1	1114.8
85°	264.7	229.4	217.7	238.2	273.5	763.3	1107.4	729.5	819.2	730.9	580.9
87.5°	79.4	97.1	92.7	91.2	100.0	182.4	589.7	405.9	601.5	228.0	170.6
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)