

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: P951270

Luminaire Tested: **GALN-SB5C-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5C-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31831 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.5
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

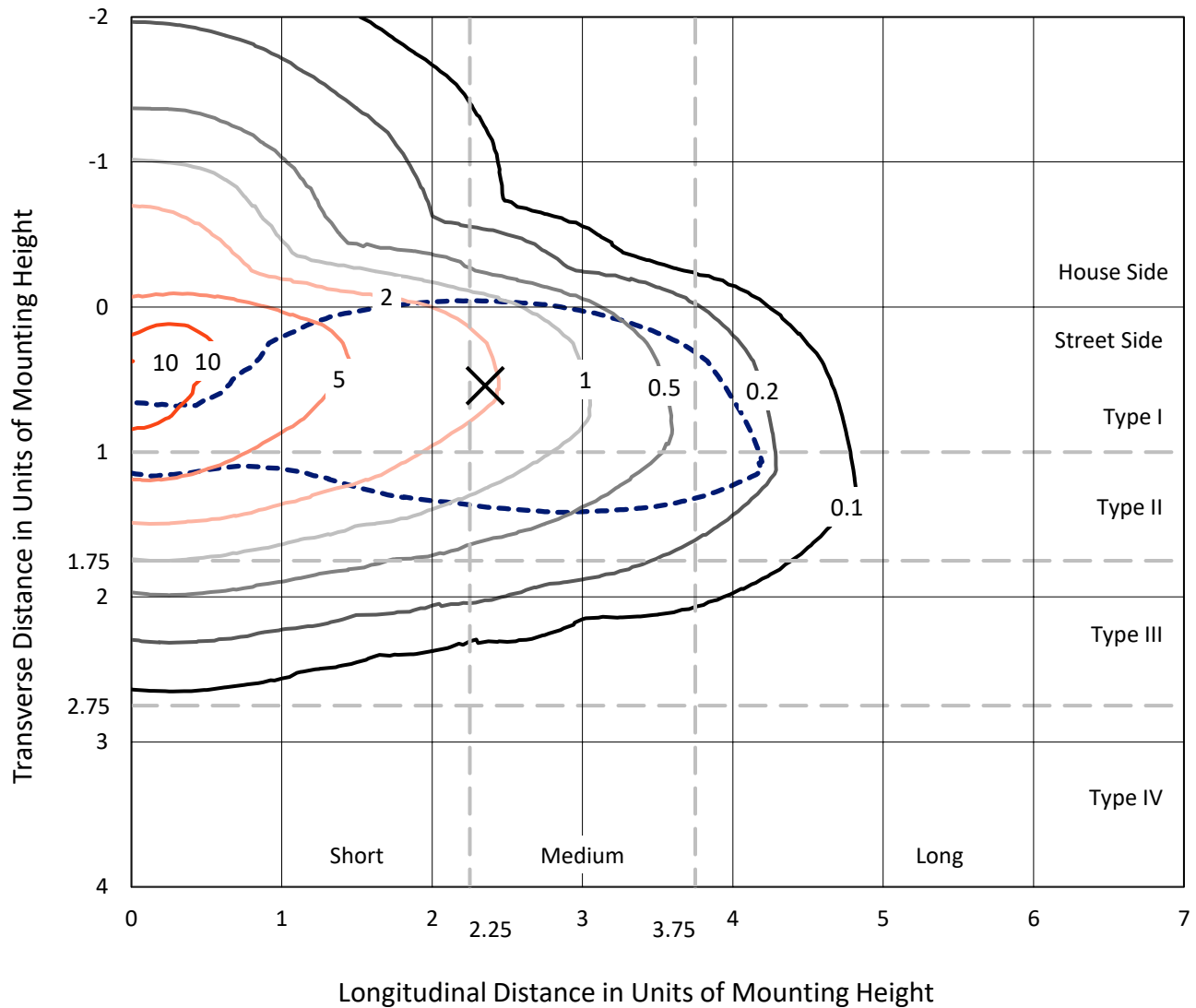


REPORT NUMBER: P951270

CATALOG NUMBER: GALN-SB5C-722-U-T2R

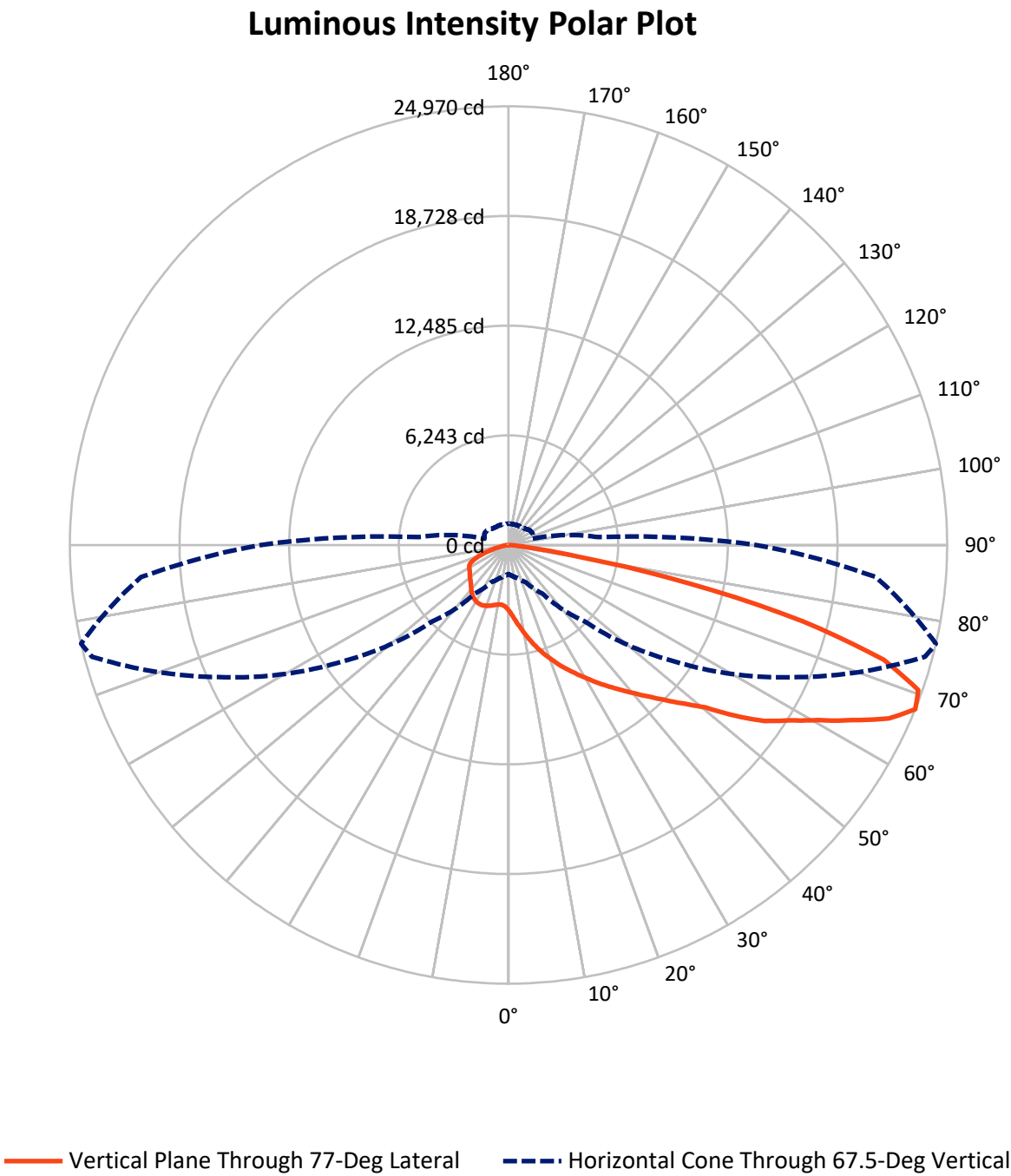
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
Type II - Medium - N/A

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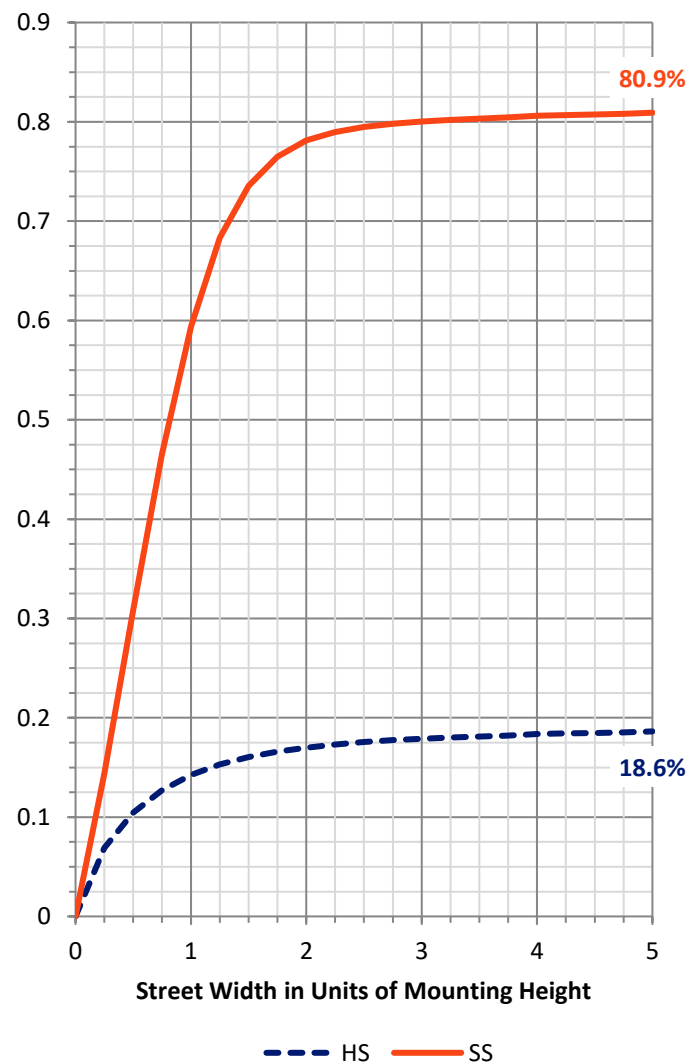
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6021.1	0.0	6021.1
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	25809.8	0.0	25809.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	31831.0	0.0	31831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.3	1.3
10°-20°	1438.2	4.5
20°-30°	2715.4	8.5
30°-40°	4374.5	13.7
40°-50°	5983.5	18.8
50°-60°	6749.4	21.2
60°-70°	6299.8	19.8
70°-80°	3453.3	10.8
80°-90°	416.5	1.3
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°	31831.0	100.0
0°-180°	31831.0	100.0

Coefficient of Utilization



REPORT NUMBER: P951270

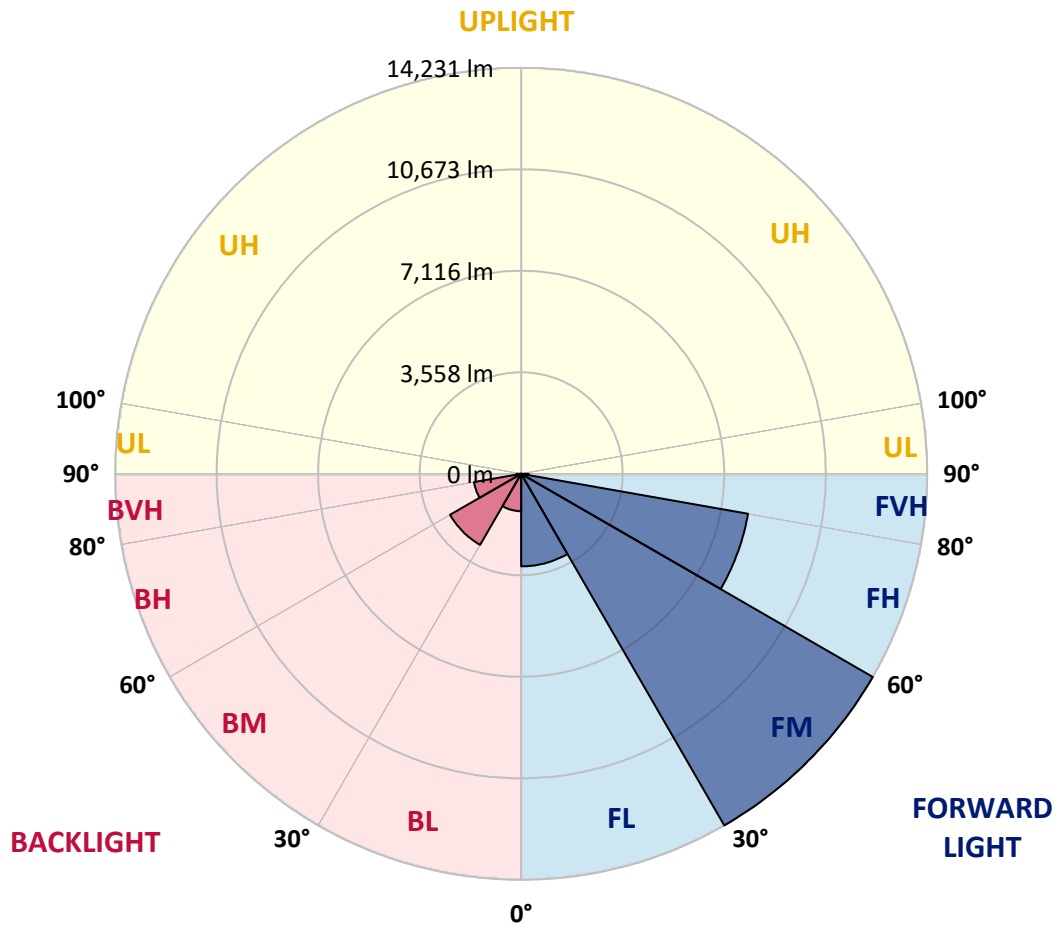
CATALOG NUMBER: GALN-SB5C-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3244.8	10.2			
FM	(30°-60°)	14231.3	44.7			
FH	(60°-80°)	8073.3	25.4			G4/12000
FVH	(80°-90°)	260.5	0.8			G3/500
BL	(0°-30°)	1309.1	4.1	B3/2500		
BM	(30°-60°)	2876.1	9.0	B3/5000		
BH	(60°-80°)	1679.8	5.3	B3/2500		G3/2500
BVH	(80°-90°)	156.0	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-G4

Type II Medium



REPORT NUMBER: P951270

CATALOG NUMBER: GALN-SB5C-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8
2.5°	4676.3	4709.1	4668.0	4668.0	4530.0	4457.7	4319.7	4214.6	4025.6	3992.7	3867.9
5°	5527.4	5568.5	5511.0	5486.3	5323.6	5174.1	4942.4	4714.1	4377.2	4342.7	4048.6
7.5°	6186.3	6238.8	6187.9	6161.6	6017.0	5849.4	5578.3	5259.6	4784.7	4717.3	4291.8
10°	6723.6	6731.8	6715.3	6725.2	6611.8	6473.8	6196.1	5824.8	5231.6	5139.6	4585.9
12.5°	7027.5	7065.3	7098.2	7157.3	7137.6	7052.2	6802.4	6358.8	5704.8	5586.5	4906.3
15°	7170.5	7236.2	7310.1	7446.5	7556.6	7578.0	7387.4	6932.2	6186.3	6043.3	5230.0
17.5°	7221.4	7283.9	7400.5	7597.7	7834.3	7993.7	7908.2	7489.2	6662.8	6498.5	5570.1
20°	7479.4	7497.5	7568.1	7755.4	8011.8	8276.3	8340.4	8024.9	7134.3	6948.7	5921.7
22.5°	8031.5	7995.3	8015.0	8100.5	8284.5	8540.8	8687.1	8498.1	7619.1	7405.4	6276.6
25°	8943.4	8838.2	8733.1	8634.5	8728.1	8872.7	9038.7	8971.3	8126.8	7855.7	6634.8
27.5°	10095.2	9967.0	9735.4	9411.7	9298.3	9349.2	9423.2	9410.0	8596.7	8322.3	7004.5
30°	11228.9	11079.4	10803.4	10335.1	10036.1	9901.3	9845.5	9807.7	9107.7	8815.2	7377.5
32.5°	12134.3	12016.0	11744.9	11220.7	10786.9	10556.9	10371.2	10236.5	9641.7	9349.2	7771.9
35°	12926.3	12816.2	12505.6	11933.8	11462.3	11217.4	10974.3	10686.7	10197.1	9901.3	8195.8
37.5°	13649.2	13539.1	13113.6	12518.8	12043.9	11874.7	11657.8	11169.8	10754.1	10474.8	8644.3
40°	14106.0	14081.4	13683.7	13010.1	12517.1	12433.3	12361.0	11730.1	11371.9	11112.3	9137.3
42.5°	14222.7	14276.9	13961.4	13407.7	12937.8	12870.4	13039.6	12364.3	12065.3	11817.2	9695.9
45°	13941.7	14097.8	13890.8	13514.5	13236.8	13200.7	13641.0	13057.7	12832.6	12605.9	10369.6
47.5°	13230.2	13494.8	13409.3	13356.8	13317.3	13473.4	14170.1	13793.8	13701.8	13504.6	11138.6
50°	11794.2	12295.3	12444.8	12776.7	13157.9	13685.4	14651.5	14597.3	14717.2	14518.4	12075.1
52.5°	9311.4	10001.5	10869.1	11700.5	12668.3	13614.7	15180.6	15750.8	16256.8	16148.4	13563.8
55°	7686.4	7997.0	8664.1	10188.9	11718.6	13317.3	15418.8	16682.4	17784.9	17688.0	14692.6
57.5°	6437.7	6715.3	7126.1	8399.5	10282.5	12642.0	15566.7	17250.9	18831.6	18821.7	15806.6
60°	5098.5	5392.7	5813.3	6715.3	8604.9	11475.4	15533.9	17898.3	20167.4	20249.6	17165.5
62.5°	3586.9	3910.6	4377.2	5218.5	6891.2	9963.8	14863.5	18366.6	21739.8	21963.3	18800.3
65°	2357.8	2571.5	2923.1	3649.3	5134.7	8020.0	13583.5	18427.4	23422.4	23800.3	20335.0
67.5°	1653.0	1735.1	1942.1	2336.5	3384.8	6150.1	11544.4	17798.1	24544.6	24970.2	21000.5
70°	1289.8	1330.9	1436.1	1593.8	2126.2	4135.7	8846.4	16161.5	24304.7	24748.4	20305.4
72.5°	1114.0	1153.5	1192.9	1212.6	1426.2	2553.4	5992.4	13512.9	22045.5	22346.2	17655.1
75°	1010.5	1020.4	1053.2	1046.7	1087.7	1656.2	3458.7	9845.5	17393.9	17290.3	13033.1
77.5°	849.5	862.6	916.8	908.6	966.1	1132.1	1795.9	6353.9	11276.6	10573.3	7254.3
80°	719.7	726.2	785.4	775.5	839.6	819.9	916.8	3238.5	4783.1	4051.9	2091.7
82.5°	249.8	308.9	599.7	617.8	640.8	496.2	529.1	1321.1	1460.7	1119.0	438.7
85°	121.6	129.8	305.6	433.8	432.1	249.8	258.0	471.6	460.1	361.5	146.2
87.5°	19.7	24.6	36.1	169.2	134.7	65.7	88.7	92.0	95.3	82.2	32.9
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: P951270

CATALOG NUMBER: GALN-SB5C-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8	3734.8
2.5°	3775.8	3693.7	3521.2	3361.8	3236.9	3117.0	3049.6	2992.1	2959.2	2952.6	2952.6
5°	3877.7	3708.5	3394.6	3130.1	2957.6	2829.4	2762.1	2719.3	2698.0	2684.8	2683.2
7.5°	4024.0	3775.8	3328.9	3028.2	2847.5	2755.5	2721.0	2714.4	2712.8	2714.4	2719.3
10°	4226.1	3885.9	3322.3	3003.6	2852.4	2801.5	2799.8	2801.5	2808.1	2809.7	2811.3
12.5°	4444.6	3999.3	3348.6	3024.9	2914.9	2886.9	2882.0	2880.4	2885.3	2888.6	2890.2
15°	4682.8	4148.8	3393.0	3071.0	2983.9	2954.3	2949.4	2939.5	2937.9	2936.2	2934.6
17.5°	4927.7	4296.7	3442.3	3120.2	3028.2	2987.2	2969.1	2946.1	2928.0	2923.1	2928.0
20°	5175.8	4442.9	3476.8	3144.9	3031.5	2974.0	2937.9	2898.4	2867.2	2849.1	2855.7
22.5°	5440.3	4595.7	3498.2	3138.3	3001.9	2923.1	2857.4	2811.3	2763.7	2732.5	2734.1
25°	5698.3	4728.8	3496.5	3103.8	2944.4	2844.2	2760.4	2701.3	2635.5	2602.7	2602.7
27.5°	5946.4	4848.8	3455.4	3043.0	2862.3	2750.5	2650.3	2579.7	2515.6	2484.4	2482.7
30°	6202.7	4949.0	3391.4	2954.3	2765.3	2642.1	2532.0	2471.2	2413.7	2384.1	2382.5
32.5°	6457.4	5041.0	3301.0	2844.2	2653.6	2535.3	2426.9	2371.0	2336.5	2336.5	2338.1
35°	6726.8	5105.1	3181.0	2716.0	2535.3	2421.9	2336.5	2303.6	2300.3	2280.6	2275.7
37.5°	7011.1	5146.2	3034.8	2584.6	2418.6	2311.8	2285.6	2246.1	2213.3	2170.5	2164.0
40°	7310.1	5187.3	2859.0	2448.2	2295.4	2236.3	2224.8	2172.2	2078.5	1973.4	1958.6
42.5°	7673.3	5215.2	2676.6	2311.8	2165.6	2145.9	2162.3	2071.9	1922.4	1843.6	1845.2
45°	8093.9	5261.2	2509.0	2177.1	2032.5	2032.5	2101.5	1983.2	1860.0	1810.7	1818.9
47.5°	8639.4	5368.0	2352.9	2029.2	1909.3	1942.1	1966.8	1876.4	1807.4	1746.6	1745.0
50°	9428.1	5624.3	2191.9	1879.7	1815.6	1881.3	1846.8	1794.3	1713.8	1664.5	1659.5
52.5°	10407.4	5775.5	2048.9	1745.0	1735.1	1800.8	1751.5	1702.3	1641.5	1575.7	1562.6
55°	11074.5	5803.4	1929.0	1646.4	1680.9	1674.3	1656.2	1611.9	1579.0	1491.9	1493.6
57.5°	11820.5	5859.3	1830.4	1587.2	1646.4	1574.1	1567.5	1529.7	1487.0	1427.9	1408.1
60°	12712.7	5946.4	1745.0	1564.2	1616.8	1508.4	1475.5	1460.7	1418.0	1388.4	1396.6
62.5°	13685.4	6025.2	1657.9	1567.5	1582.3	1444.3	1395.0	1390.1	1363.8	1353.9	1353.9
65°	14349.2	5810.0	1549.4	1564.2	1528.1	1378.6	1316.1	1314.5	1293.1	1289.8	1288.2
67.5°	14117.5	5128.1	1403.2	1518.2	1472.2	1312.8	1243.8	1237.3	1209.3	1211.0	1211.0
70°	12957.5	4155.4	1201.1	1404.9	1403.2	1253.7	1168.2	1146.9	1109.1	1115.7	1122.2
72.5°	10782.0	3079.2	930.0	1215.9	1293.1	1199.5	1081.2	1046.7	999.0	1005.6	1003.9
75°	7786.6	2093.3	677.0	925.1	1125.5	1135.4	995.7	936.6	879.1	888.9	892.2
77.5°	3984.5	1186.3	497.9	637.5	884.0	1031.9	918.5	839.6	826.5	918.5	905.3
80°	1299.7	594.8	345.1	446.9	580.0	844.6	805.1	714.7	711.5	732.8	629.3
82.5°	387.8	251.4	221.8	294.1	320.4	647.4	695.0	540.6	465.0	489.6	506.1
85°	133.1	121.6	126.5	146.2	152.8	379.6	486.4	358.2	338.5	373.0	368.1
87.5°	31.2	42.7	36.1	32.9	32.9	92.0	189.0	149.5	207.0	138.0	133.1
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)