

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: P955558

Luminaire Tested: **GALN-SB8C-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955558
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8C-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51357 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 399.8
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



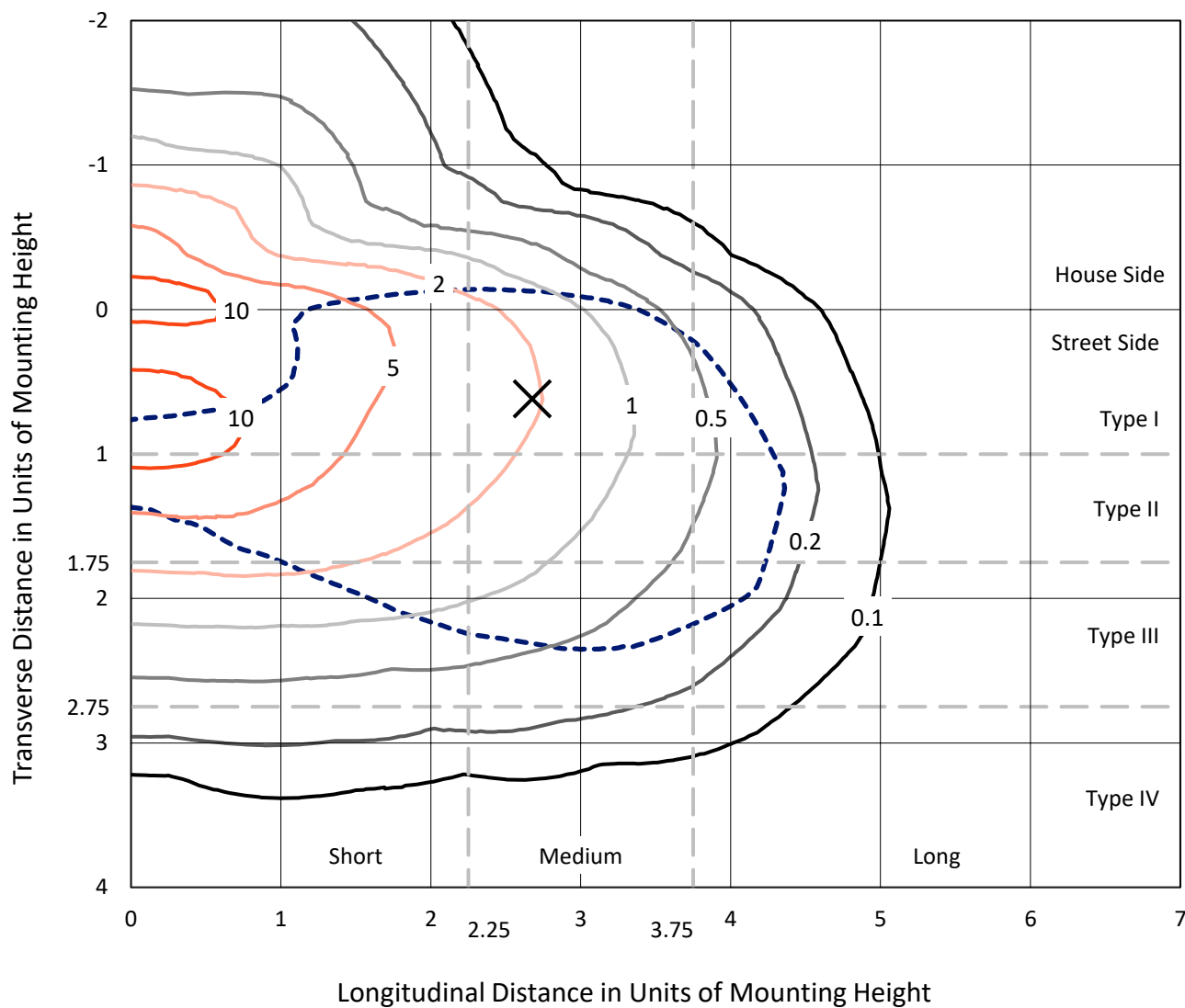
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Iso-Footcandle Lines of Horizontal Illumination

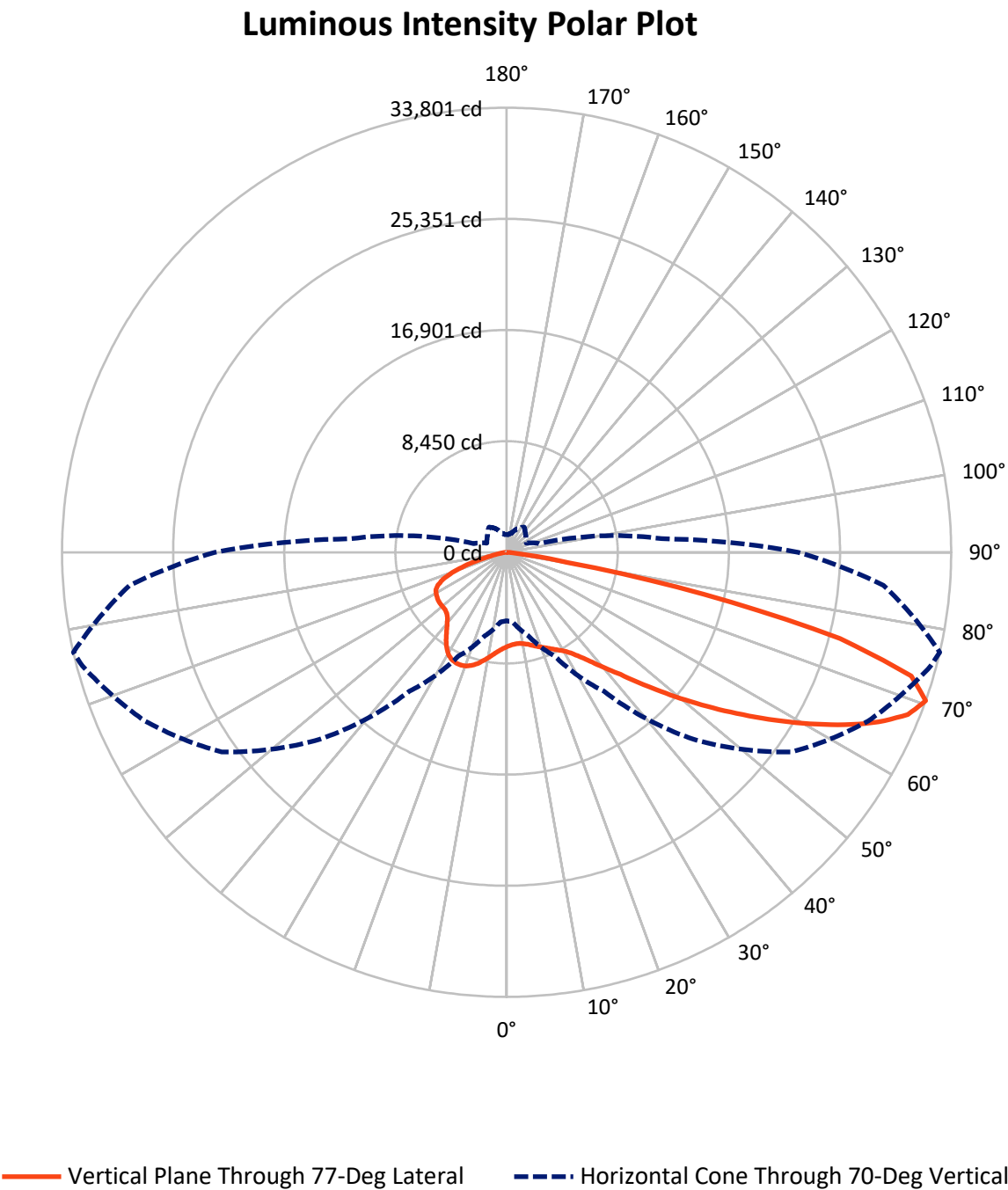
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
Type III - Medium - N/A

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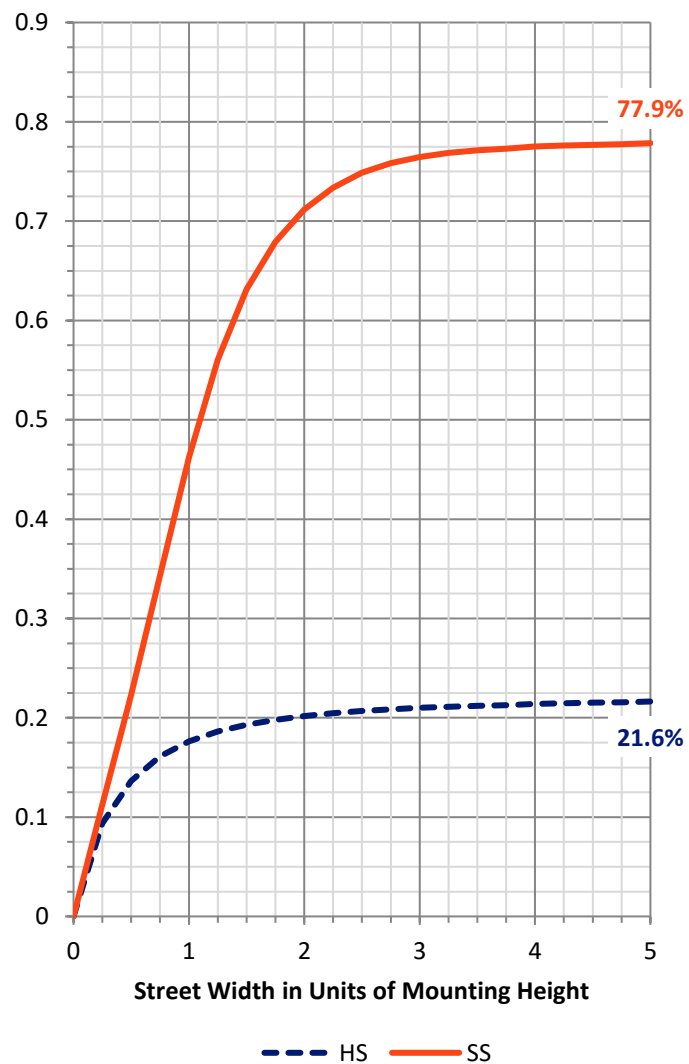
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11246.4	0.0	11246.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	40110.6	0.0	40110.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	51357.0	0.0	51357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.3	1.3
10°-20°	1972.1	3.8
20°-30°	3372.6	6.6
30°-40°	5423.6	10.6
40°-50°	8467.6	16.5
50°-60°	11310.7	22.0
60°-70°	12055.5	23.5
70°-80°	7421.3	14.5
80°-90°	650.3	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°	51357.0	100.0
0°-180°	51357.0	100.0

Coefficient of Utilization



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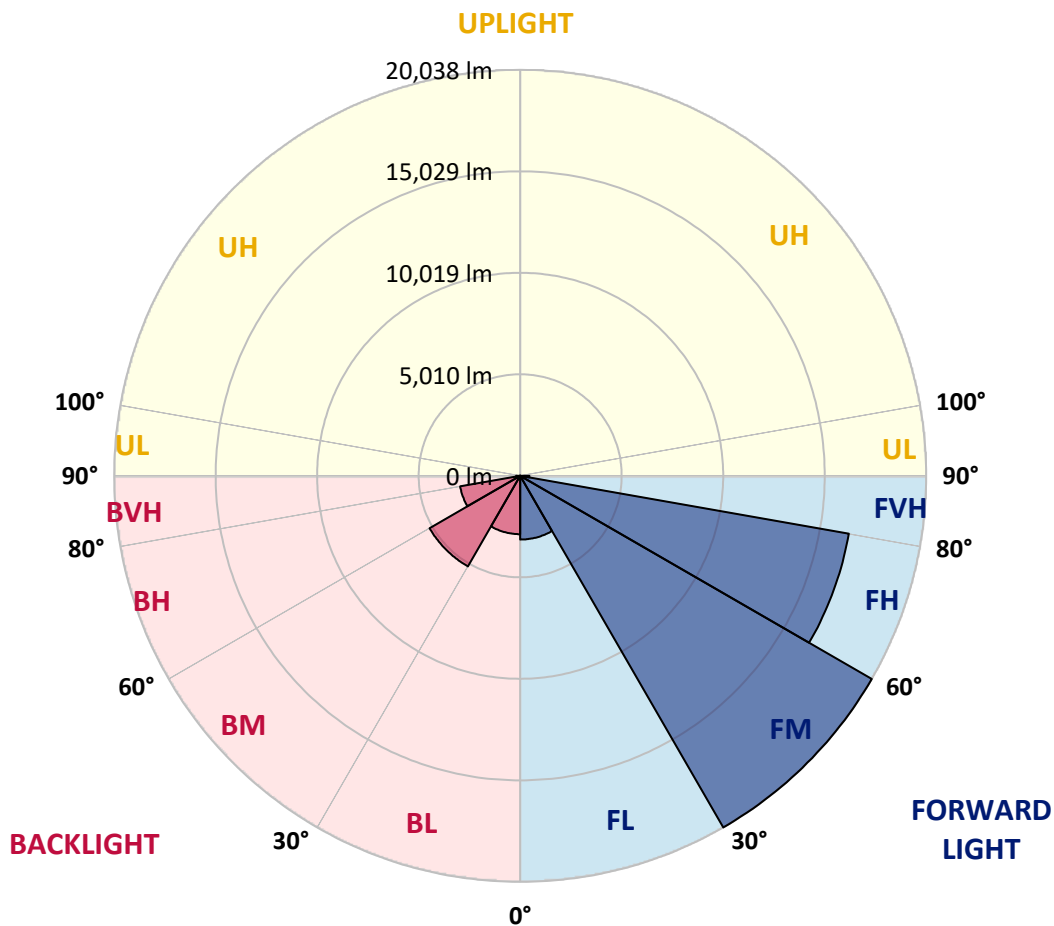
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3146.4	6.1			
FM	(30°-60°)	20038.4	39.0			
FH	(60°-80°)	16471.0	32.1			G5
FVH	(80°-90°)	454.7	0.9			G3/500
BL	(0°-30°)	2881.7	5.6	B4/5000		
BM	(30°-60°)	5163.5	10.1	B4/8500		
BH	(60°-80°)	3005.7	5.9	B4/5000		G4/5000
BVH	(80°-90°)	195.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	7164.8	7164.8	7164.8	7164.8	7164.8	7164.8	7164.8	7164.8	7164.8	7164.8	7164.8
2.5°	6604.5	6601.9	6636.1	6646.6	6709.7	6754.5	6838.6	6928.0	7043.8	7056.9	7127.9
5°	6223.1	6223.1	6262.6	6304.7	6386.2	6475.6	6604.5	6759.7	6959.6	6991.2	7167.4
7.5°	5899.6	5920.7	5954.9	6036.4	6131.1	6260.0	6457.2	6678.2	6941.2	6991.2	7275.2
10°	5639.2	5662.9	5705.0	5770.7	5912.8	6091.6	6349.4	6633.5	6985.9	7064.8	7433.1
12.5°	5557.7	5581.4	5605.0	5655.0	5786.5	5996.9	6304.7	6654.5	7093.8	7172.7	7648.7
15°	5747.1	5776.0	5757.6	5744.4	5812.8	6004.8	6325.7	6730.8	7227.9	7341.0	7914.4
17.5°	6183.7	6194.2	6152.1	6028.5	6018.0	6120.6	6425.7	6836.0	7396.2	7519.9	8182.7
20°	6888.6	6870.2	6783.4	6538.8	6399.4	6378.3	6596.6	6993.8	7569.8	7701.3	8472.0
22.5°	7846.0	7825.0	7651.4	7264.7	6954.4	6749.2	6843.9	7199.0	7764.5	7911.8	8753.4
25°	9040.1	9011.2	8756.1	8230.0	7748.7	7241.0	7180.6	7469.9	8003.8	8140.6	9048.0
27.5°	10434.2	10410.5	10134.3	9439.9	8745.5	7914.4	7598.8	7788.1	8253.7	8408.9	9379.4
30°	11933.4	12001.8	11512.6	10765.6	9887.1	8792.9	8161.6	8180.0	8577.2	8716.6	9781.9
32.5°	13695.7	13814.0	13224.8	12278.0	11078.6	9747.7	8871.8	8727.1	9048.0	9163.8	10289.5
35°	15442.1	15576.3	15087.0	14040.2	12659.3	10873.4	9613.5	9355.8	9674.0	9800.3	10962.8
37.5°	16951.9	17130.7	16878.2	15968.2	14350.6	12230.6	10581.4	10094.9	10444.7	10602.5	11867.6
40°	18143.4	18416.9	18398.5	17830.4	16344.3	13877.1	11809.8	11007.5	11402.1	11573.0	12964.4
42.5°	19111.3	19348.0	19553.2	19524.3	18424.8	15747.2	13253.8	12193.8	12493.6	12690.9	14198.0
45°	19779.4	20031.9	20473.8	20949.9	20426.4	17748.9	14908.2	13601.0	13874.5	14171.7	15668.3
47.5°	20376.5	20663.2	21236.5	21991.4	22125.6	19758.4	16720.4	15239.6	15489.5	15797.2	17143.9
50°	20429.1	20676.3	21565.3	22635.8	23332.8	21688.9	18666.8	17078.1	17312.2	17641.0	18724.7
52.5°	19158.7	19547.9	21099.8	22617.4	23887.8	23303.9	20600.0	18990.3	19253.3	19647.9	20360.7
55°	14871.4	15442.1	19734.7	21912.5	23690.6	24348.1	22438.6	21023.5	21360.2	21773.1	22007.2
57.5°	12809.3	13059.1	15665.7	20629.0	22791.0	24619.0	23990.4	23077.7	23619.5	24071.9	23748.4
60°	11512.6	11720.3	13261.7	18632.6	21607.4	24190.3	25189.8	24992.5	25928.9	26468.1	25529.1
62.5°	10123.8	10321.1	11723.0	15557.9	20092.4	23477.5	25947.3	26760.0	28296.1	28885.3	27207.2
65°	8745.5	8913.9	10257.9	13072.3	18167.1	22764.7	26339.2	28288.2	30487.1	31097.3	28601.2
67.5°	7209.5	7348.9	8619.3	11028.6	15826.1	21788.9	26533.8	29490.2	32394.0	32917.4	29290.3
70°	5202.6	5310.5	6622.9	8721.9	12888.2	20110.8	26454.9	30342.4	33383.0	33801.2	28769.6
72.5°	2459.3	2556.6	4097.9	5662.9	9103.3	16844.0	24858.4	29666.5	32378.2	32170.4	25581.7
75°	1312.5	1396.7	2354.1	3106.3	4808.1	11546.7	20342.3	25555.4	27188.8	26178.8	18906.2
77.5°	889.0	954.8	1457.2	1864.8	2196.2	5481.4	13074.9	17693.6	17022.9	15355.3	9468.9
80°	704.9	773.3	1194.1	1262.5	1062.6	1980.6	5402.5	8190.6	5883.8	4705.5	2693.4
82.5°	541.8	618.1	1004.8	915.3	578.7	812.7	1572.9	2590.8	1507.1	1146.8	652.3
85°	331.4	412.9	789.1	583.9	326.1	370.9	533.9	720.7	460.3	384.0	234.1
87.5°	168.3	236.7	399.8	213.0	147.3	86.8	142.0	142.0	121.0	105.2	60.5
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°	7164.8	7164.8	7164.8	7164.8	7164.8	7164.8	7164.8	7164.8	7164.8	7164.8	7164.8
2.5°	7191.1	7243.7	7333.1	7417.3	7483.0	7546.2	7609.3	7643.5	7654.0	7696.1	7719.8
5°	7275.2	7372.6	7546.2	7709.2	7811.8	7874.9	7919.6	7946.0	7951.2	7964.4	7985.4
7.5°	7430.4	7585.6	7827.6	7990.7	8066.9	8061.7	8043.3	7977.5	7951.2	7927.5	7932.8
10°	7648.7	7853.9	8151.1	8264.2	8216.9	8090.6	7927.5	7735.5	7646.1	7559.3	7533.0
12.5°	7919.6	8180.0	8472.0	8466.7	8232.6	7909.1	7530.4	7235.8	7049.0	6914.9	6883.3
15°	8248.4	8548.3	8771.8	8593.0	8080.1	7498.8	6943.8	6559.8	6391.5	6244.2	6228.4
17.5°	8587.7	8908.6	9011.2	8553.5	7696.1	6891.2	6262.6	5960.1	5794.4	5715.5	5739.2
20°	8919.1	9237.4	9153.2	8327.3	7112.2	6202.1	5641.9	5476.2	5442.0	5460.4	5452.5
22.5°	9269.0	9553.0	9182.2	7890.7	6367.8	5497.2	5189.5	5194.7	5271.0	5326.2	5339.4
25°	9626.7	9818.7	9105.9	7259.5	5568.2	4979.0	4902.8	4986.9	5136.9	5244.7	5273.6
27.5°	9971.2	10055.4	8940.2	6478.3	4881.7	4608.2	4621.3	4794.9	5021.1	5171.0	5207.9
30°	10360.5	10265.8	8621.9	5599.8	4405.6	4289.9	4400.4	4602.9	4829.1	4963.3	4994.8
32.5°	10799.8	10447.3	8116.9	4787.0	4069.0	4034.8	4216.3	4347.8	4447.7	4487.2	4508.2
35°	11346.8	10702.4	7469.9	4216.3	3766.5	3848.0	4021.6	3955.9	3916.4	3895.4	3916.4
37.5°	12057.0	11047.0	6712.4	3845.4	3521.9	3713.9	3784.9	3579.8	3424.6	3348.3	3366.7
40°	12911.8	11552.0	5983.8	3558.7	3366.7	3598.2	3474.5	3227.3	3030.0	2922.2	2930.1
42.5°	13861.4	12080.7	5370.9	3343.0	3279.9	3503.5	3245.7	2951.1	2632.9	2598.7	2632.9
45°	14858.2	12625.1	4952.7	3177.3	3237.8	3421.9	3114.2	2638.1	2411.9	2551.3	2625.0
47.5°	15855.1	13124.9	4700.2	3053.7	3216.8	3329.9	2998.5	2464.5	2304.1	2506.6	2601.3
50°	16965.0	13572.0	4587.1	2964.3	3193.1	3293.1	2824.9	2419.8	2191.0	2325.1	2425.1
52.5°	18067.1	13919.2	4503.0	2874.9	3158.9	3264.1	2740.7	2367.2	2054.2	2062.1	2117.3
55°	19166.5	14145.4	4410.9	2756.5	3082.6	3201.0	2732.8	2309.3	1951.6	1914.8	1941.1
57.5°	20339.6	14274.3	4297.8	2625.0	2951.1	3040.6	2724.9	2264.6	1920.1	1859.6	1867.5
60°	21533.8	14463.7	4150.5	2464.5	2774.9	2848.5	2706.5	2248.9	1901.7	1799.1	1807.0
62.5°	22604.3	14529.4	3974.3	2312.0	2548.7	2659.2	2667.1	2235.7	1851.7	1675.5	1675.5
65°	23306.5	14245.4	3666.6	2138.4	2304.1	2464.5	2590.8	2191.0	1762.3	1586.0	1586.0
67.5°	23277.6	13435.3	3185.2	1914.8	2067.4	2248.9	2480.3	2114.7	1654.4	1475.6	1483.5
70°	22194.0	11836.1	2575.0	1654.4	1807.0	2017.4	2338.3	2001.6	1525.5	1354.6	1370.4
72.5°	19035.0	9263.7	1870.1	1349.3	1504.5	1778.0	2154.2	1864.8	1394.0	1246.7	1238.8
75°	13598.3	5862.8	1267.8	1036.3	1170.5	1507.1	1925.3	1704.4	1273.0	1252.0	1181.0
77.5°	6946.5	2801.2	839.0	757.5	815.4	1188.9	1617.6	1522.9	1291.4	1033.7	920.6
80°	2259.4	1033.7	528.7	515.5	541.8	791.7	1252.0	1249.4	978.4	702.3	620.7
82.5°	720.7	444.5	344.6	331.4	318.3	497.1	873.2	989.0	660.2	444.5	441.9
85°	286.7	265.7	202.5	186.7	134.1	234.1	457.7	657.6	491.9	320.9	328.8
87.5°	105.2	105.2	55.2	39.5	28.9	78.9	123.6	197.3	281.4	165.7	163.1
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)