

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: P949489

Luminaire Tested: **GALN-SB4B-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949489
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-SB4B-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19139 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 147
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

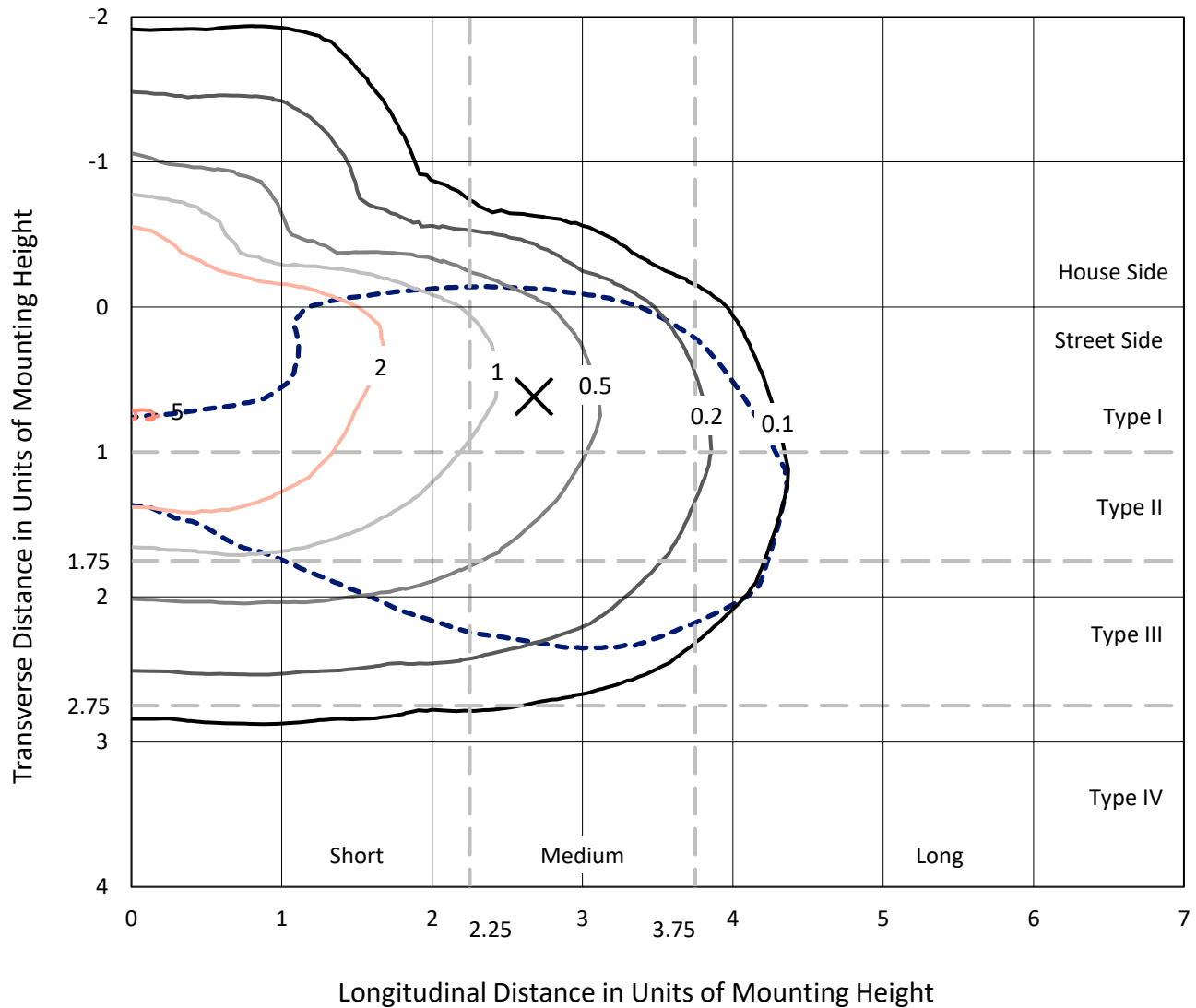


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

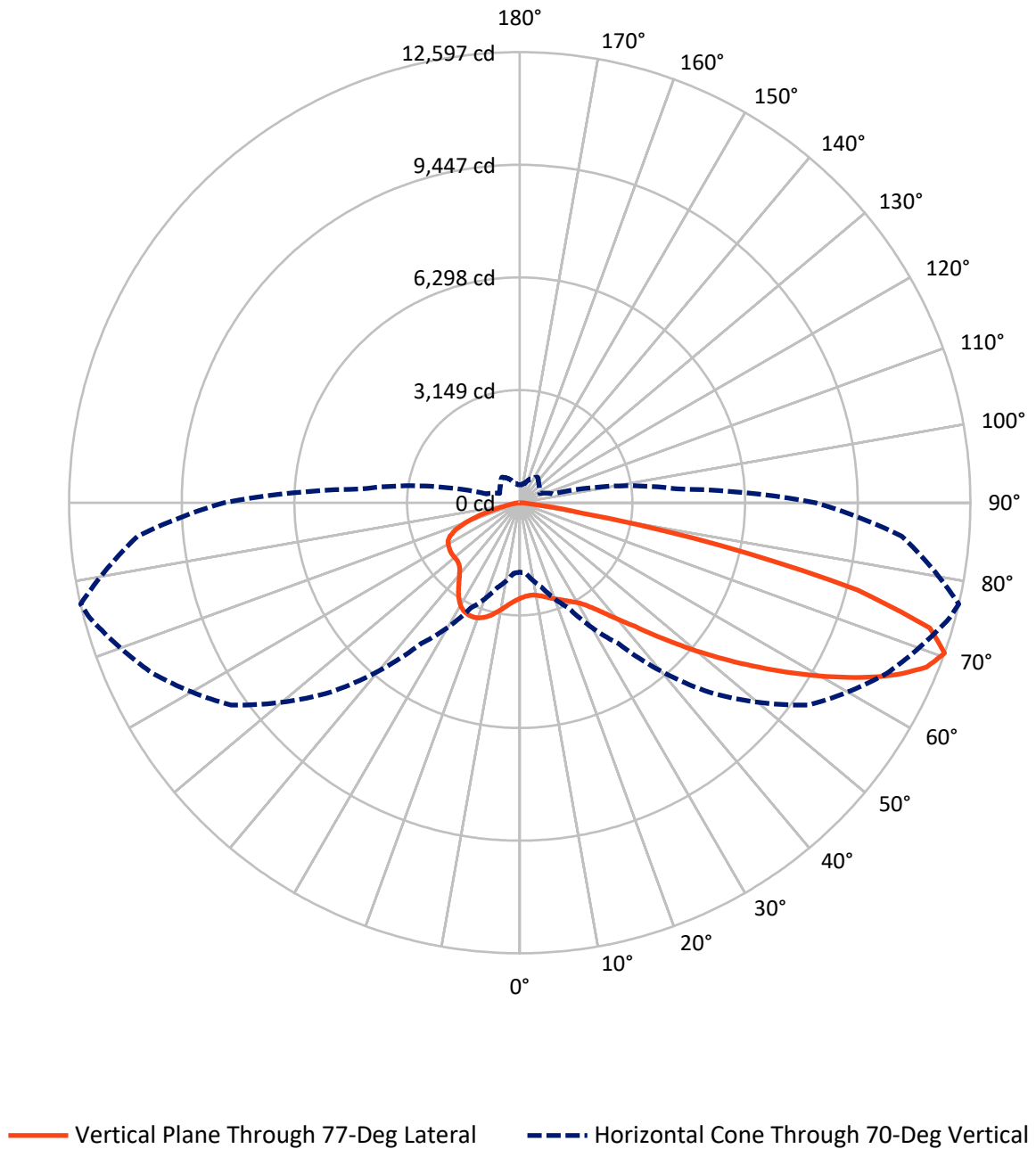


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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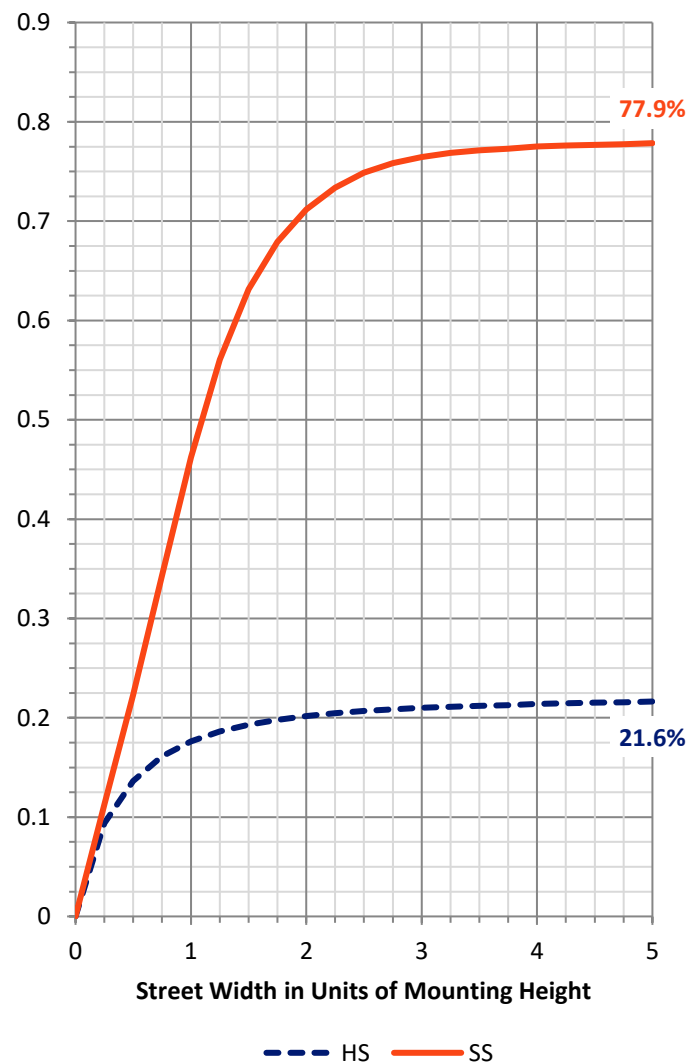
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4191.1	0.0	4191.1
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	14947.9	0.0	14947.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	19139.0	0.0	19139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.7	1.3
10°-20°	735.0	3.8
20°-30°	1256.9	6.6
30°-40°	2021.2	10.6
40°-50°	3155.6	16.5
50°-60°	4215.1	22.0
60°-70°	4492.7	23.5
70°-80°	2765.7	14.5
80°-90°	242.3	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°	19139.0	100.0
0°-180°	19139.0	100.0

Coefficient of Utilization



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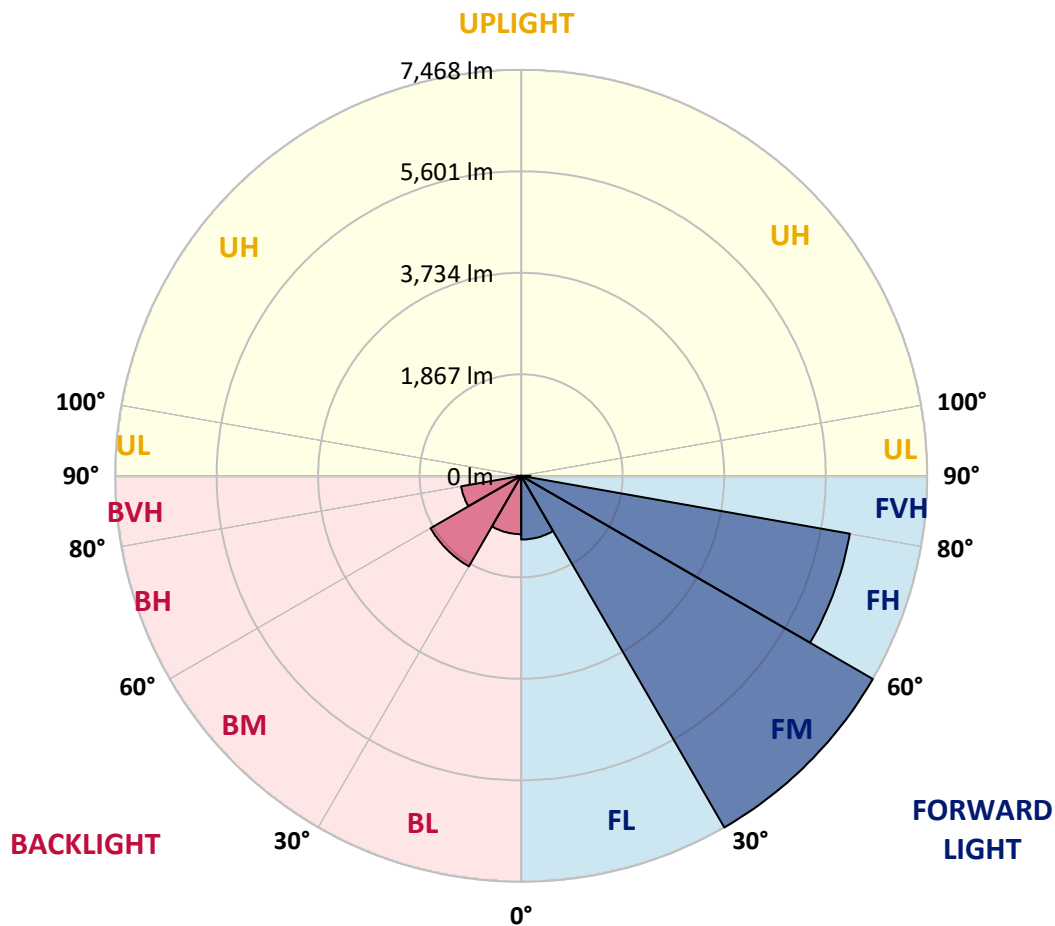
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1172.6	6.1			
FM	(30°-60°)	7467.6	39.0			
FH	(60°-80°)	6138.2	32.1			G3/7500
FVH	(80°-90°)	169.5	0.9			G2/225
BL	(0°-30°)	1073.9	5.6	B3/2500		
BM	(30°-60°)	1924.2	10.1	B2/2500		
BH	(60°-80°)	1120.1	5.9	B3/2500		G3/2500
BVH	(80°-90°)	72.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1
2.5°	2461.3	2460.3	2473.0	2477.0	2500.5	2517.2	2548.5	2581.8	2625.0	2629.9	2656.3
5°	2319.2	2319.2	2333.9	2349.5	2379.9	2413.3	2461.3	2519.1	2593.6	2605.4	2671.0
7.5°	2198.6	2206.4	2219.2	2249.6	2284.8	2332.9	2406.4	2488.7	2586.7	2605.4	2711.2
10°	2101.5	2110.4	2126.1	2150.6	2203.5	2270.1	2366.2	2472.1	2603.4	2632.8	2770.0
12.5°	2071.2	2080.0	2088.8	2107.4	2156.4	2234.9	2349.5	2479.9	2643.6	2673.0	2850.4
15°	2141.7	2152.5	2145.7	2140.8	2166.2	2237.8	2357.4	2508.3	2693.6	2735.7	2949.4
17.5°	2304.5	2308.4	2292.7	2246.6	2242.7	2280.9	2394.6	2547.5	2756.3	2802.4	3049.4
20°	2567.1	2560.3	2527.9	2436.8	2384.8	2377.0	2458.3	2606.4	2821.0	2870.0	3157.2
22.5°	2923.9	2916.1	2851.4	2707.3	2591.6	2515.2	2550.5	2682.8	2893.6	2948.4	3262.1
25°	3368.9	3358.2	3263.1	3067.0	2887.7	2698.5	2675.9	2783.8	2982.7	3033.7	3371.9
27.5°	3888.5	3879.6	3776.7	3517.9	3259.2	2949.4	2831.8	2902.4	3075.9	3133.7	3495.4
30°	4447.2	4472.7	4290.3	4012.0	3684.6	3276.8	3041.6	3048.4	3196.4	3248.4	3645.4
32.5°	5103.9	5148.0	4928.4	4575.6	4128.6	3632.6	3306.2	3252.3	3371.9	3415.0	3834.5
35°	5754.8	5804.7	5622.4	5232.3	4717.7	4052.1	3582.6	3486.6	3605.2	3652.2	4085.5
37.5°	6317.4	6384.0	6289.9	5950.8	5348.0	4557.9	3943.3	3762.0	3892.4	3951.2	4422.7
40°	6761.4	6863.4	6856.5	6644.8	6091.0	5171.5	4401.1	4102.1	4249.2	4312.9	4831.4
42.5°	7122.1	7210.4	7286.8	7276.0	6866.3	5868.5	4939.2	4544.2	4656.0	4729.5	5291.1
45°	7371.1	7465.2	7629.9	7807.3	7612.2	6614.4	5555.8	5068.6	5170.6	5281.3	5839.1
47.5°	7593.6	7700.5	7914.1	8195.5	8245.4	7363.3	6231.1	5679.3	5772.4	5887.1	6388.9
50°	7613.2	7705.4	8036.7	8435.6	8695.4	8082.7	6956.5	6364.4	6451.7	6574.2	6978.0
52.5°	7139.8	7284.8	7863.2	8428.7	8902.2	8684.6	7676.9	7077.0	7175.1	7322.1	7587.7
55°	5542.1	5754.8	7354.4	8166.0	8828.7	9073.7	8362.1	7834.7	7960.2	8114.1	8201.3
57.5°	4773.6	4866.7	5838.1	7687.7	8493.4	9174.7	8940.4	8600.3	8802.2	8970.8	8850.2
60°	4290.3	4367.8	4942.2	6943.7	8052.3	9014.9	9387.4	9313.9	9662.8	9863.8	9513.8
62.5°	3772.8	3846.3	4368.8	5797.9	7487.7	8749.3	9669.7	9972.6	10545.0	10764.6	10139.2
65°	3259.2	3321.9	3822.8	4871.6	6770.2	8483.6	9815.7	10542.1	11361.5	11588.9	10658.7
67.5°	2686.7	2738.7	3212.1	4110.0	5897.9	8120.0	9888.3	10990.0	12072.1	12267.2	10915.5
70°	1938.8	1979.0	2468.1	3250.3	4803.0	7494.6	9858.9	11307.6	12440.7	12596.6	10721.4
72.5°	916.5	952.8	1527.2	2110.4	3392.5	6277.2	9263.9	11055.7	12066.3	11988.8	9533.4
75°	489.1	520.5	877.3	1157.6	1791.8	4303.1	7580.9	9523.6	10132.3	9755.9	7045.7
77.5°	331.3	355.8	543.0	695.0	818.5	2042.7	4872.6	6593.8	6343.9	5722.4	3528.7
80°	262.7	288.2	445.0	470.5	396.0	738.1	2013.3	3052.3	2192.7	1753.6	1003.7
82.5°	201.9	230.3	374.4	341.1	215.6	302.9	586.2	965.5	561.7	427.4	243.1
85°	123.5	153.9	294.1	217.6	121.5	138.2	199.0	268.6	171.5	143.1	87.2
87.5°	62.7	88.2	149.0	79.4	54.9	32.3	52.9	52.9	45.1	39.2	22.5
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°	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1	2670.1
2.5°	2679.9	2699.5	2732.8	2764.2	2788.7	2812.2	2835.7	2848.5	2852.4	2868.1	2876.9
5°	2711.2	2747.5	2812.2	2873.0	2911.2	2934.7	2951.4	2961.2	2963.1	2968.0	2975.9
7.5°	2769.1	2826.9	2917.1	2977.8	3006.3	3004.3	2997.5	2972.9	2963.1	2954.3	2956.3
10°	2850.4	2926.9	3037.6	3079.8	3062.1	3015.1	2954.3	2882.8	2849.4	2817.1	2807.3
12.5°	2951.4	3048.4	3157.2	3155.3	3068.0	2947.5	2806.3	2696.5	2626.9	2576.9	2565.2
15°	3073.9	3185.7	3269.0	3202.3	3011.2	2794.6	2587.7	2444.6	2381.9	2327.0	2321.1
17.5°	3200.4	3319.9	3358.2	3187.6	2868.1	2568.1	2333.9	2221.1	2159.4	2130.0	2138.8
20°	3323.9	3442.5	3411.1	3103.3	2650.5	2311.3	2102.5	2040.8	2028.0	2034.9	2032.0
22.5°	3454.2	3560.1	3421.9	2940.6	2373.1	2048.6	1933.9	1935.9	1964.3	1984.9	1989.8
25°	3587.5	3659.1	3393.5	2705.4	2075.1	1855.5	1827.1	1858.5	1914.3	1954.5	1965.3
27.5°	3715.9	3747.3	3331.7	2414.2	1819.3	1717.3	1722.2	1786.9	1871.2	1927.1	1940.8
30°	3861.0	3825.7	3213.1	2086.8	1641.8	1598.7	1639.9	1715.4	1799.6	1849.6	1861.4
32.5°	4024.7	3893.4	3024.9	1784.0	1516.4	1503.6	1571.3	1620.3	1657.5	1672.2	1680.1
35°	4228.6	3988.4	2783.8	1571.3	1403.6	1434.0	1498.7	1474.2	1459.5	1451.7	1459.5
37.5°	4493.2	4116.8	2501.5	1433.1	1312.5	1384.0	1410.5	1334.1	1276.2	1247.8	1254.7
40°	4811.8	4305.0	2230.0	1326.2	1254.7	1340.9	1294.8	1202.7	1129.2	1089.0	1091.9
42.5°	5165.7	4502.1	2001.6	1245.8	1222.3	1305.6	1209.6	1099.8	981.2	968.4	981.2
45°	5537.2	4705.0	1845.7	1184.1	1206.6	1275.2	1160.6	983.1	898.8	950.8	978.2
47.5°	5908.6	4891.2	1751.6	1138.0	1198.8	1240.9	1117.4	918.4	858.7	934.1	969.4
50°	6322.3	5057.8	1709.5	1104.7	1190.0	1227.2	1052.7	901.8	816.5	866.5	903.7
52.5°	6733.0	5187.2	1678.1	1071.4	1177.2	1216.4	1021.4	882.2	765.5	768.5	789.1
55°	7142.7	5271.5	1643.8	1027.2	1148.8	1192.9	1018.4	860.6	727.3	713.6	723.4
57.5°	7579.9	5319.5	1601.6	978.2	1099.8	1133.1	1015.5	844.0	715.5	693.0	695.9
60°	8024.9	5390.1	1546.8	918.4	1034.1	1061.6	1008.6	838.1	708.7	670.5	673.4
62.5°	8423.8	5414.6	1481.1	861.6	949.8	991.0	993.9	833.2	690.1	624.4	624.4
65°	8685.6	5308.8	1366.4	796.9	858.7	918.4	965.5	816.5	656.7	591.1	591.1
67.5°	8674.8	5006.9	1187.0	713.6	770.4	838.1	924.3	788.1	616.5	549.9	552.8
70°	8270.9	4410.9	959.6	616.5	673.4	751.8	871.4	745.9	568.5	504.8	510.7
72.5°	7093.7	3452.3	696.9	502.8	560.7	662.6	802.8	695.0	519.5	464.6	461.7
75°	5067.6	2184.9	472.5	386.2	436.2	561.7	717.5	635.2	474.4	466.6	440.1
77.5°	2588.7	1043.9	312.7	282.3	303.9	443.1	602.8	567.5	481.3	385.2	343.1
80°	842.0	385.2	197.0	192.1	201.9	295.0	466.6	465.6	364.6	261.7	231.3
82.5°	268.6	165.7	128.4	123.5	118.6	185.3	325.4	368.6	246.0	165.7	164.7
85°	106.8	99.0	75.5	69.6	50.0	87.2	170.6	245.1	183.3	119.6	122.5
87.5°	39.2	39.2	20.6	14.7	10.8	29.4	46.1	73.5	104.9	61.8	60.8
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)