

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: P949848

Luminaire Tested: **GALN-SB4C-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24746 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 200.7
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

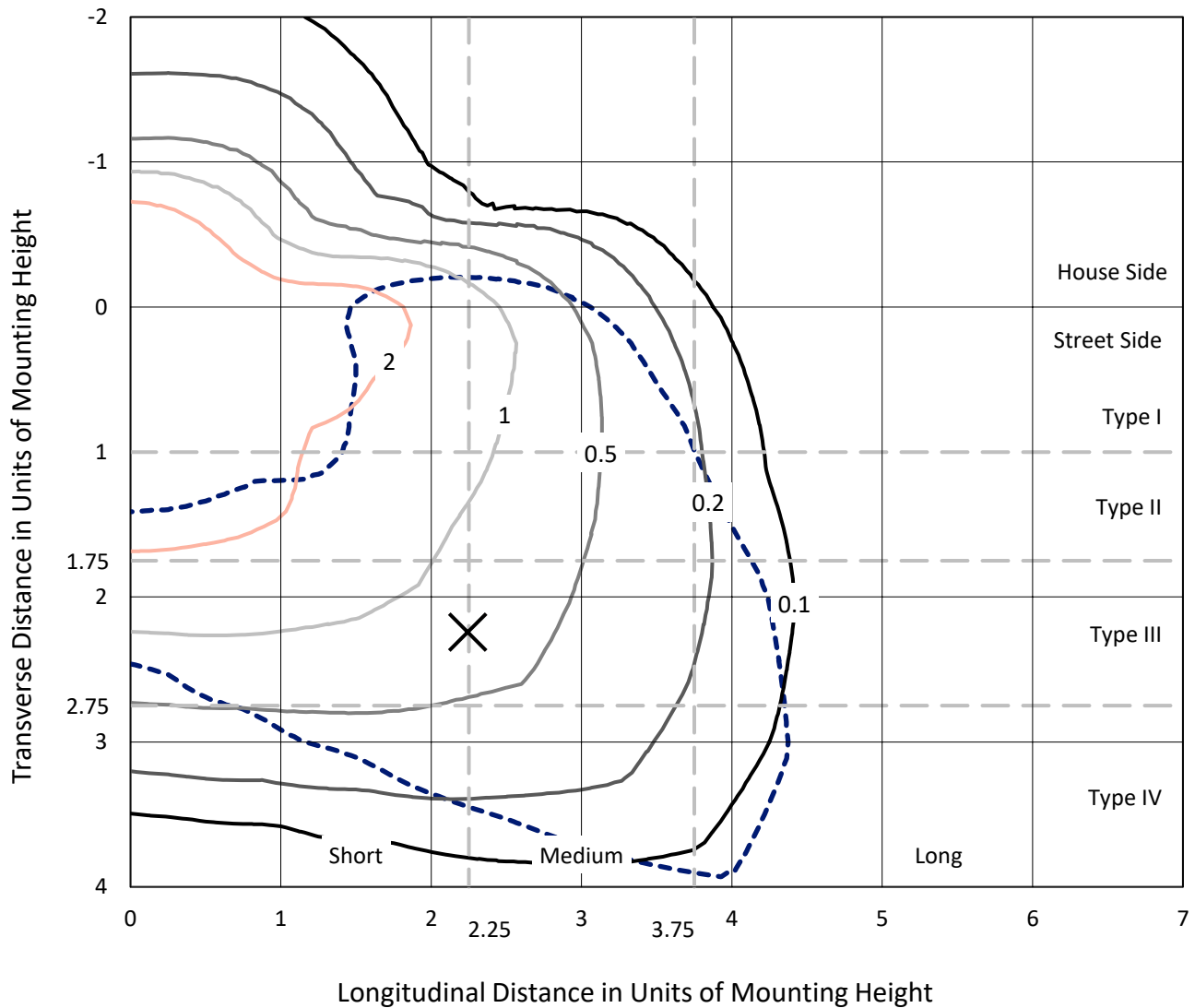


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

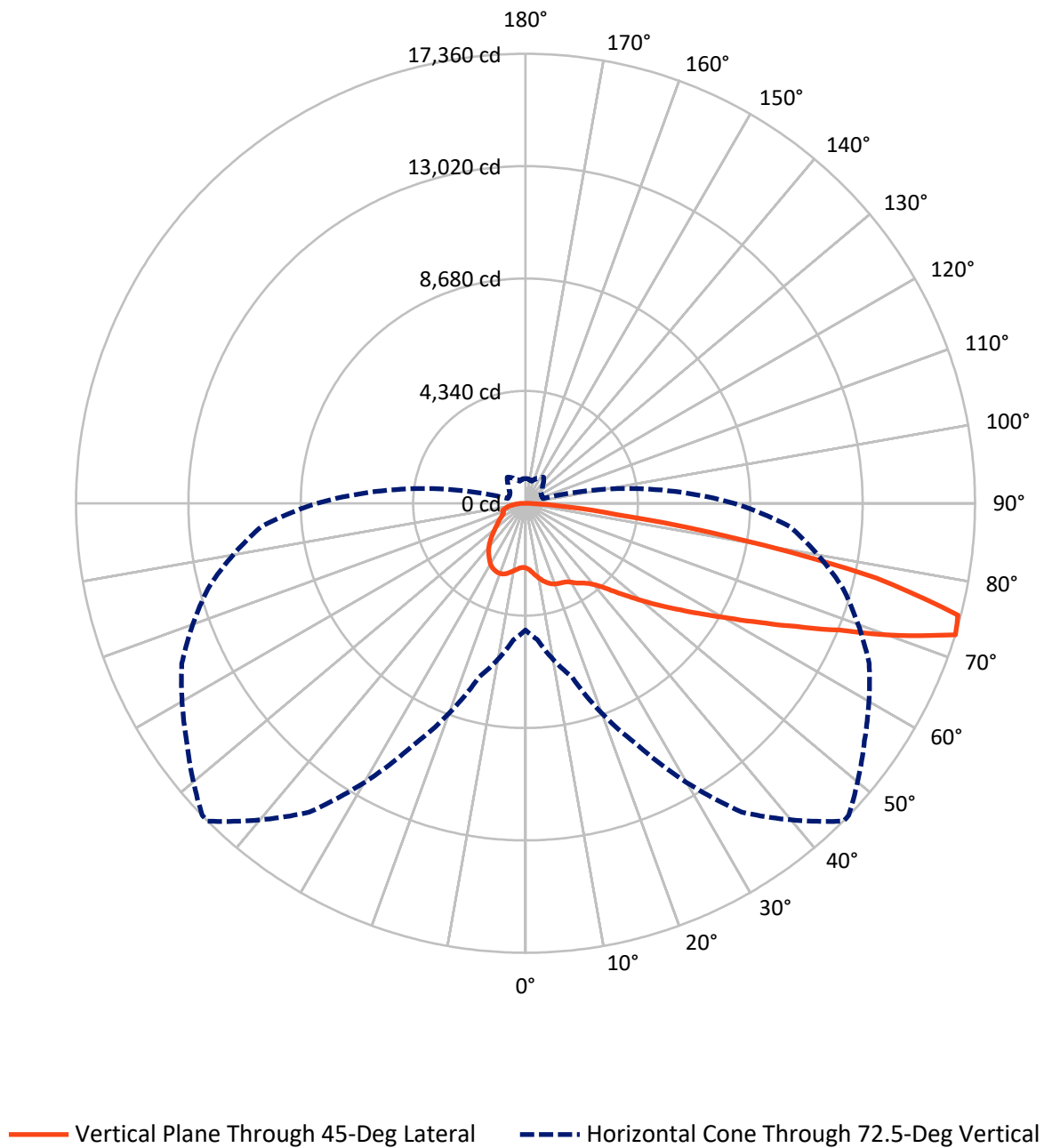


Based on 25 foot mounting height. Maximum calculated value = 5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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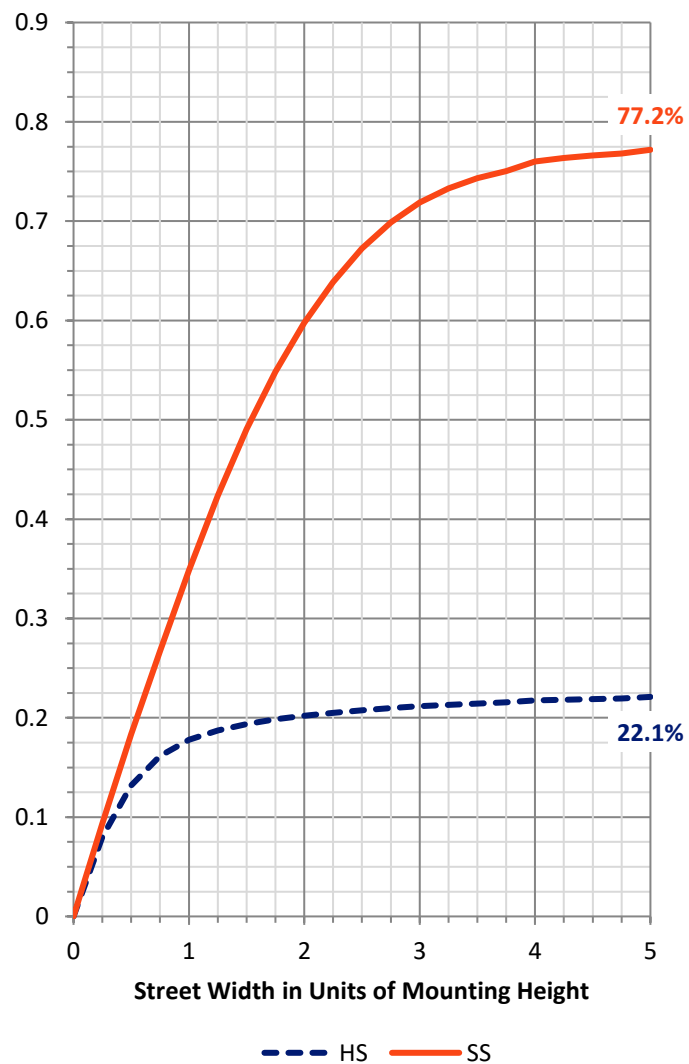
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5594.2	0.0	5594.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19151.8	0.0	19151.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	24746.0	0.0	24746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.1	1.0
10°-20°	847.1	3.4
20°-30°	1473.7	6.0
30°-40°	2112.6	8.5
40°-50°	2974.6	12.0
50°-60°	4556.2	18.4
60°-70°	6600.4	26.7
70°-80°	5270.8	21.3
80°-90°	656.5	2.7
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°	24746.0	100.0
0°-180°	24746.0	100.0

Coefficient of Utilization



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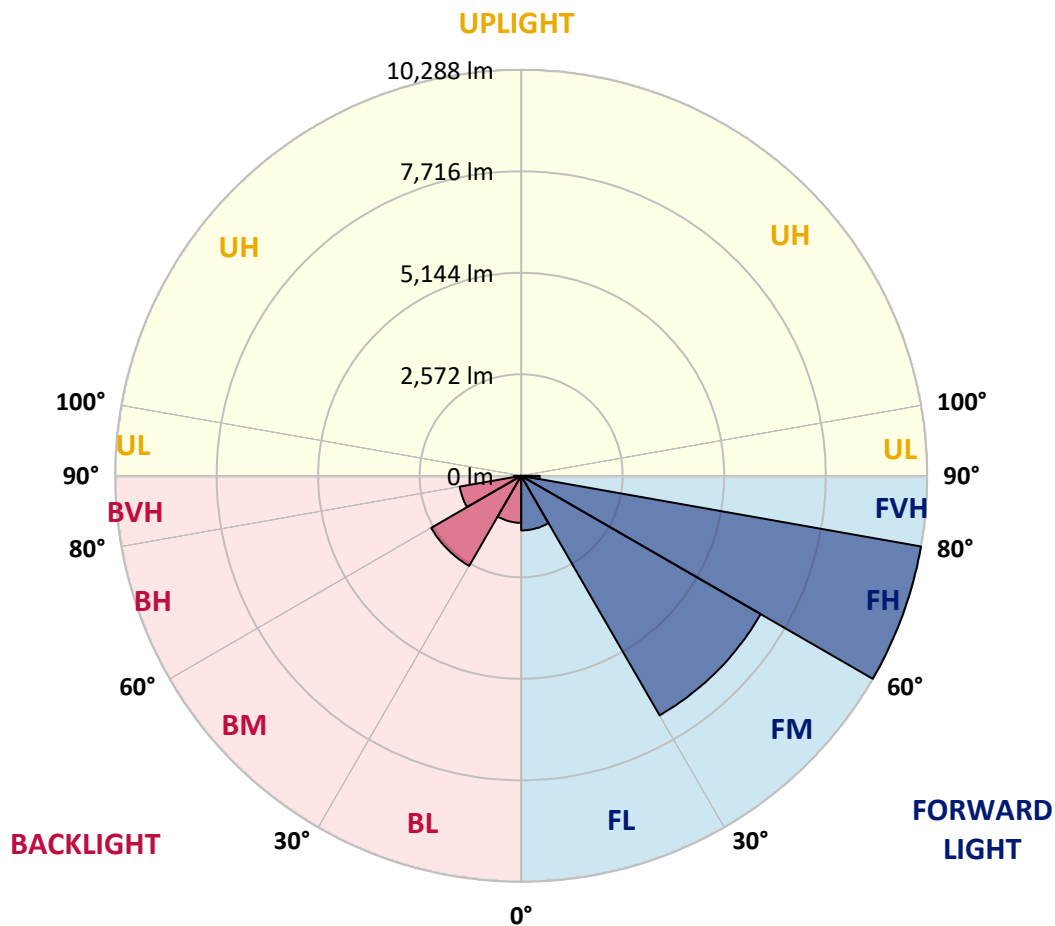
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1383.8	5.6			
FM	(30°-60°)	7009.4	28.3			
FH	(60°-80°)	10287.6	41.6			G4/12000
FVH	(80°-90°)	470.9	1.9			G3/500
BL	(0°-30°)	1191.1	4.8	B3/2500		
BM	(30°-60°)	2634.1	10.6	B3/5000		
BH	(60°-80°)	1583.6	6.4	B3/2500		G3/2500
BVH	(80°-90°)	185.5	0.7			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4
2.5°	2594.2	2611.1	2595.5	2581.1	2574.6	2557.7	2556.4	2545.9	2539.4	2521.2	2515.9
5°	2775.4	2797.5	2771.4	2742.8	2716.7	2675.0	2669.8	2639.8	2605.9	2566.8	2544.6
7.5°	2980.0	2999.6	2969.6	2926.6	2881.0	2811.9	2810.6	2755.8	2702.4	2635.9	2598.1
10°	3158.6	3184.7	3144.3	3085.6	3028.3	2950.0	2940.9	2878.3	2810.6	2724.5	2667.2
12.5°	3316.4	3334.6	3295.5	3223.8	3157.3	3079.1	3067.4	2998.3	2922.7	2824.9	2751.9
15°	3441.5	3465.0	3412.8	3335.9	3265.5	3188.6	3178.2	3115.6	3040.0	2937.0	2843.1
17.5°	3523.6	3543.2	3489.7	3403.7	3335.9	3272.0	3264.2	3212.1	3145.6	3041.3	2940.9
20°	3554.9	3575.8	3519.7	3432.4	3369.8	3320.3	3316.4	3278.5	3232.9	3137.8	3036.1
22.5°	3586.2	3605.8	3532.7	3441.5	3386.7	3355.5	3354.2	3329.4	3311.1	3232.9	3133.8
25°	3712.6	3717.9	3620.1	3488.4	3410.2	3382.8	3381.5	3380.2	3388.1	3326.8	3239.4
27.5°	3822.1	3820.8	3737.4	3613.6	3492.3	3435.0	3433.7	3446.7	3471.5	3420.6	3348.9
30°	3982.5	3968.2	3869.1	3740.0	3629.2	3540.6	3532.7	3521.0	3540.6	3500.2	3458.4
32.5°	4322.7	4277.1	4116.8	3887.3	3742.6	3674.8	3664.4	3591.4	3599.2	3574.5	3553.6
35°	4810.3	4750.3	4536.5	4166.3	3883.4	3787.0	3781.7	3689.2	3673.5	3651.4	3659.2
37.5°	5390.4	5316.1	5067.1	4570.4	4125.9	3917.3	3909.5	3826.1	3762.2	3738.7	3783.0
40°	5973.1	5879.2	5673.3	5063.2	4483.1	4135.0	4110.2	3983.8	3910.8	3871.7	3965.5
42.5°	6538.8	6460.6	6284.6	5615.9	4923.7	4453.1	4398.3	4181.9	4127.2	4090.7	4260.2
45°	7039.4	6969.0	6840.0	6206.4	5439.9	4885.9	4832.4	4479.2	4462.2	4462.2	4707.3
47.5°	7446.2	7430.5	7293.6	6808.7	6048.7	5378.6	5286.1	4892.4	4938.0	5008.4	5342.1
50°	7897.2	7854.2	7708.2	7401.8	6764.4	5943.1	5867.5	5399.5	5570.3	5763.2	6259.9
52.5°	8311.7	8335.2	8172.3	8019.7	7572.6	6572.7	6439.8	5997.9	6366.8	6686.2	7335.3
55°	8738.0	8739.3	8693.7	8672.8	8419.9	7268.9	7122.9	6717.4	7304.1	7700.4	8589.4
57.5°	9138.2	9140.8	9208.6	9392.4	9402.9	8071.9	7906.3	7601.3	8345.6	8749.7	9882.6
60°	9495.4	9513.7	9698.8	10129.0	10267.1	8992.2	8835.8	8645.5	9422.4	9829.1	11242.2
62.5°	9615.3	9681.8	10093.8	10705.1	11121.0	10121.1	9967.3	9853.9	10553.9	10932.0	12379.0
65°	9412.0	9564.5	10361.0	11181.0	11999.6	11462.5	11310.0	11186.2	11729.8	12085.7	13312.3
67.5°	8912.7	9109.5	10345.4	11680.2	13066.0	13076.4	12934.3	12643.6	12990.4	13127.2	13616.1
70°	7597.4	7892.0	9434.1	11866.7	14290.0	15283.4	15146.5	14398.2	14248.3	13586.1	12760.9
72.5°	4895.0	5291.3	6946.9	10332.3	14562.5	17360.0	17352.2	15982.1	14645.9	12694.4	10234.5
75°	1785.9	2028.4	3227.7	6485.4	12223.8	17254.4	17305.3	15711.0	13369.7	9805.7	6375.9
77.5°	650.5	711.8	1053.3	2492.5	7517.8	13844.2	13949.8	12560.2	9516.3	4921.1	2526.4
80°	341.5	375.4	539.7	967.3	3221.2	8221.8	8387.3	7464.4	4472.6	1482.2	757.4
82.5°	189.0	204.7	302.4	525.3	1450.9	3515.8	3614.9	2948.7	1573.4	628.3	312.9
85°	101.7	108.2	142.1	286.8	709.2	1218.9	1246.2	881.2	627.0	368.9	151.2
87.5°	30.0	36.5	46.9	91.3	277.7	273.8	280.3	174.7	247.7	186.4	49.5
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°	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4	2496.4
2.5°	2508.1	2504.2	2489.9	2483.4	2475.5	2474.2	2480.7	2482.1	2483.4	2484.7	2489.9
5°	2531.6	2518.6	2505.5	2497.7	2500.3	2501.6	2514.6	2523.8	2530.3	2535.5	2538.1
7.5°	2577.2	2566.8	2544.6	2543.3	2547.2	2559.0	2575.9	2596.8	2608.5	2617.6	2620.2
10°	2645.0	2625.4	2599.4	2603.3	2611.1	2628.1	2663.3	2680.2	2699.8	2716.7	2712.8
12.5°	2714.1	2697.1	2667.2	2669.8	2682.8	2712.8	2746.7	2767.5	2780.6	2793.6	2798.8
15°	2804.0	2774.1	2741.5	2741.5	2764.9	2797.5	2813.2	2830.1	2837.9	2852.3	2857.5
17.5°	2896.6	2857.5	2814.5	2811.9	2840.5	2856.2	2865.3	2867.9	2870.5	2886.2	2891.4
20°	2989.1	2946.1	2884.9	2879.6	2886.2	2883.6	2882.3	2879.6	2883.6	2903.1	2910.9
22.5°	3080.4	3030.9	2946.1	2922.7	2904.4	2879.6	2878.3	2877.0	2879.6	2899.2	2912.2
25°	3187.3	3127.3	3013.9	2943.5	2882.3	2848.4	2852.3	2853.6	2856.2	2871.8	2892.7
27.5°	3303.3	3236.8	3076.5	2937.0	2826.2	2802.7	2796.2	2800.1	2809.3	2834.0	2858.8
30°	3419.3	3341.1	3133.8	2910.9	2755.8	2723.2	2702.4	2711.5	2740.2	2764.9	2792.3
32.5°	3524.9	3446.7	3179.5	2853.6	2665.9	2615.0	2587.6	2599.4	2628.1	2637.2	2669.8
35°	3648.8	3560.1	3199.0	2762.3	2568.1	2489.9	2453.4	2436.4	2450.8	2441.6	2470.3
37.5°	3787.0	3694.4	3196.4	2642.4	2453.4	2363.4	2312.6	2248.7	2218.7	2187.4	2207.0
40°	3991.6	3858.6	3165.1	2497.7	2311.3	2229.2	2137.9	2029.7	1961.9	1900.6	1904.6
42.5°	4270.6	4086.8	3107.8	2338.7	2150.9	2074.0	1950.2	1823.7	1716.8	1615.2	1606.0
45°	4686.4	4385.3	3036.1	2169.2	1977.6	1901.9	1767.7	1625.6	1504.4	1374.0	1358.3
47.5°	5286.1	4786.8	2968.3	1976.3	1795.1	1726.0	1604.7	1473.1	1329.7	1203.2	1188.9
50°	6110.0	5363.0	2905.7	1788.5	1615.2	1563.0	1466.5	1332.3	1187.6	1085.9	1079.4
52.5°	7158.1	6146.5	2879.6	1607.3	1447.0	1427.4	1350.5	1225.4	1088.5	1002.5	995.9
55°	8361.3	7083.8	2879.6	1434.0	1299.7	1306.2	1252.8	1136.7	1018.1	941.2	933.4
57.5°	9589.3	8032.8	2827.5	1273.6	1174.5	1201.9	1168.0	1066.3	959.4	879.9	866.9
60°	10720.8	8828.0	2616.3	1127.6	1063.7	1106.8	1084.6	997.3	866.9	800.4	790.0
62.5°	11590.3	9276.4	2209.6	1011.6	972.5	1022.0	1010.3	906.0	849.9	822.6	813.4
65°	12025.7	9203.4	1689.5	908.6	895.6	972.5	947.7	943.8	899.5	868.2	857.8
67.5°	11758.5	8575.1	1225.4	833.0	851.2	926.9	1022.0	1037.7	955.5	894.3	883.8
70°	10586.5	7438.3	912.5	761.3	795.2	928.2	1165.4	1085.9	937.3	865.6	853.9
72.5°	8053.6	5546.8	707.9	685.7	722.2	934.7	1229.3	1063.7	885.1	956.8	949.0
75°	4605.6	3045.2	568.4	593.1	630.9	873.4	1196.7	1006.4	844.7	878.6	878.6
77.5°	1755.9	1170.6	469.3	501.9	507.1	762.6	1144.6	1002.5	804.3	784.8	715.7
80°	608.8	457.6	388.5	398.9	392.4	677.9	1097.6	872.1	658.3	589.2	569.7
82.5°	249.0	228.1	307.6	294.6	279.0	526.7	886.4	713.1	538.4	475.8	470.6
85°	108.2	144.7	203.4	178.6	161.6	365.0	710.5	603.6	455.0	392.4	391.1
87.5°	22.2	54.8	86.0	80.8	83.4	243.8	504.5	428.9	322.0	241.2	189.0
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)