

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: P941602

Luminaire Tested: **GALN-SB5B-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941602
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-722-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23293 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 182.7
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



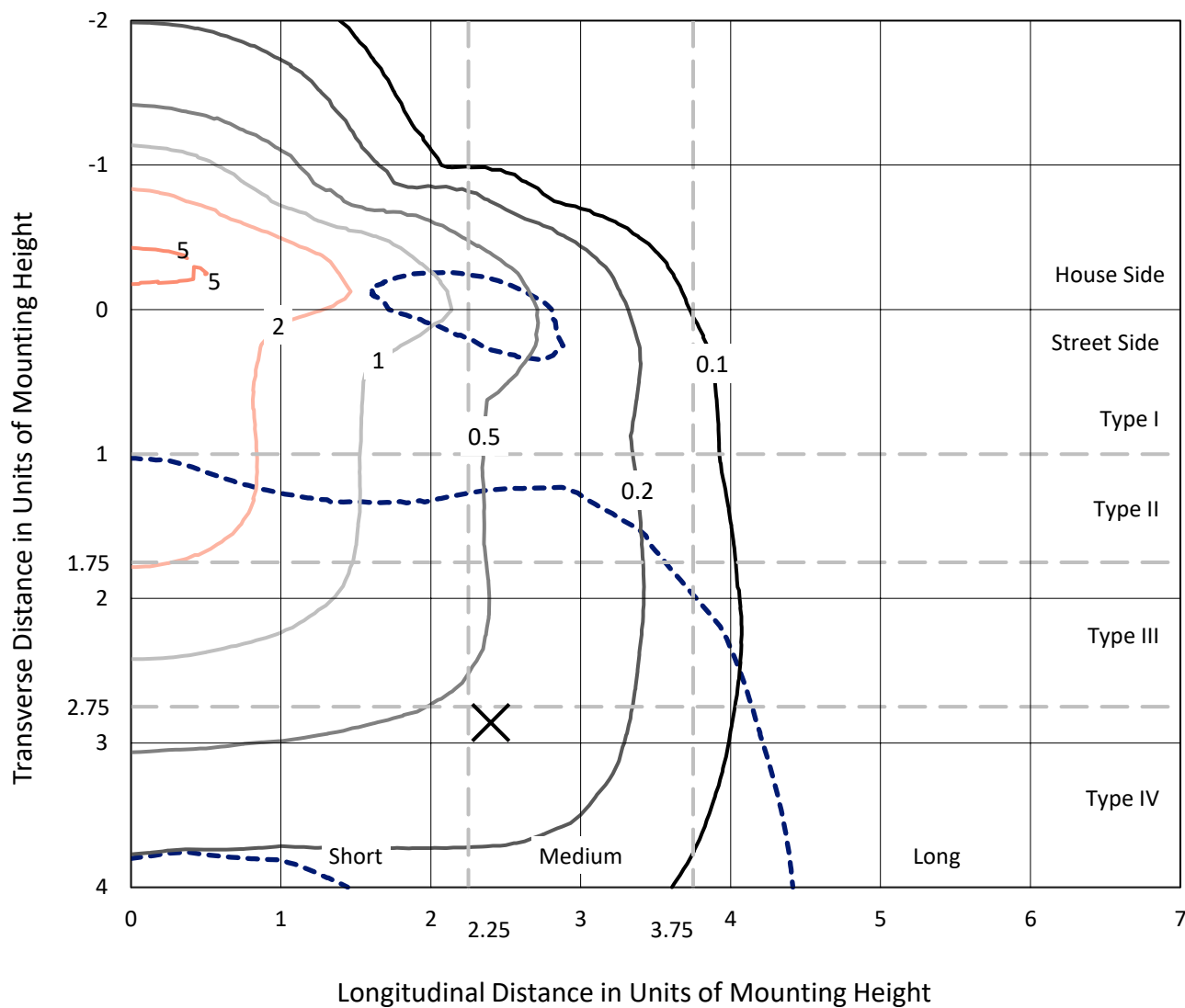
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Iso-Footcandle Lines of Horizontal Illumination

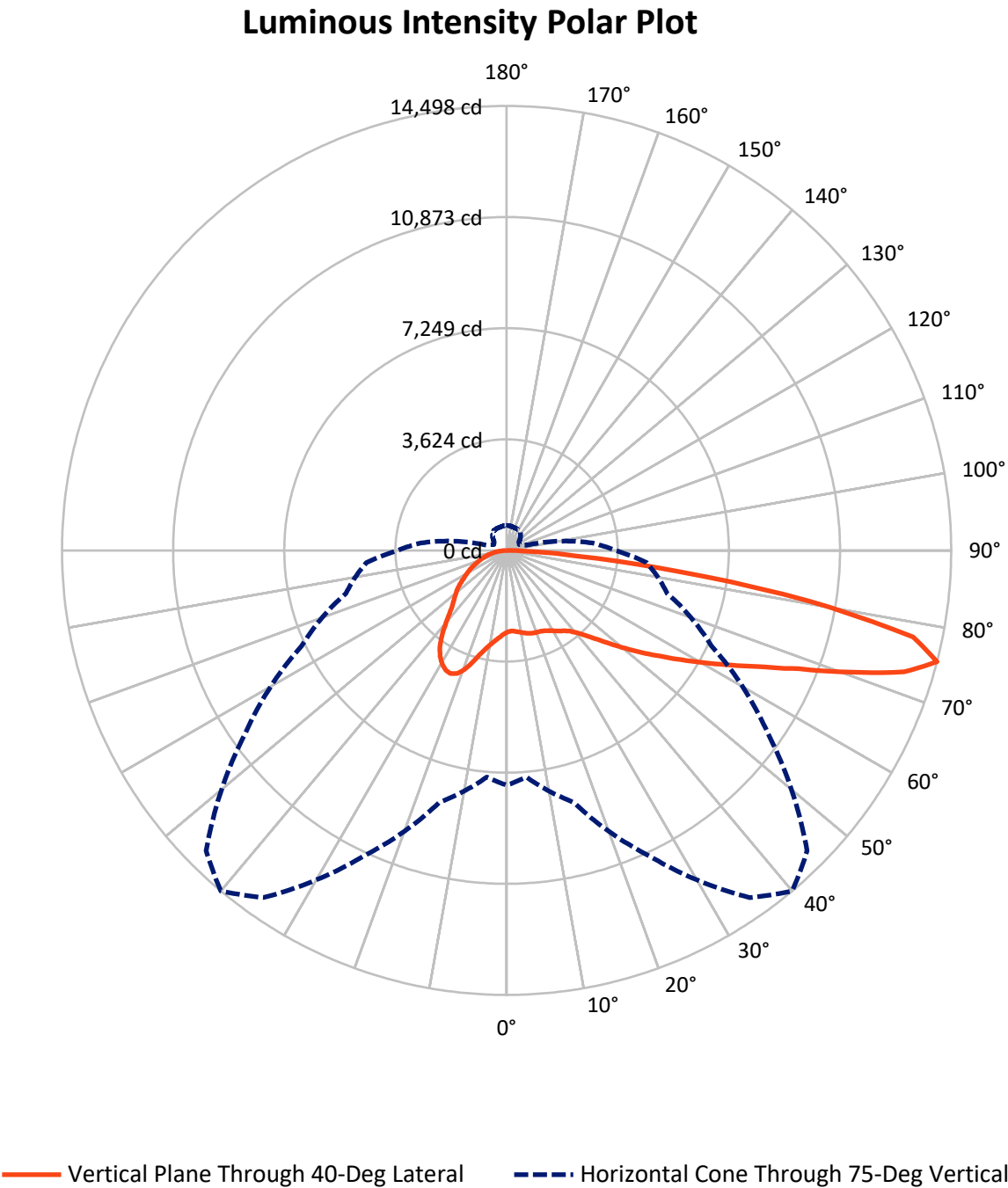
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type IV - Medium - N/A

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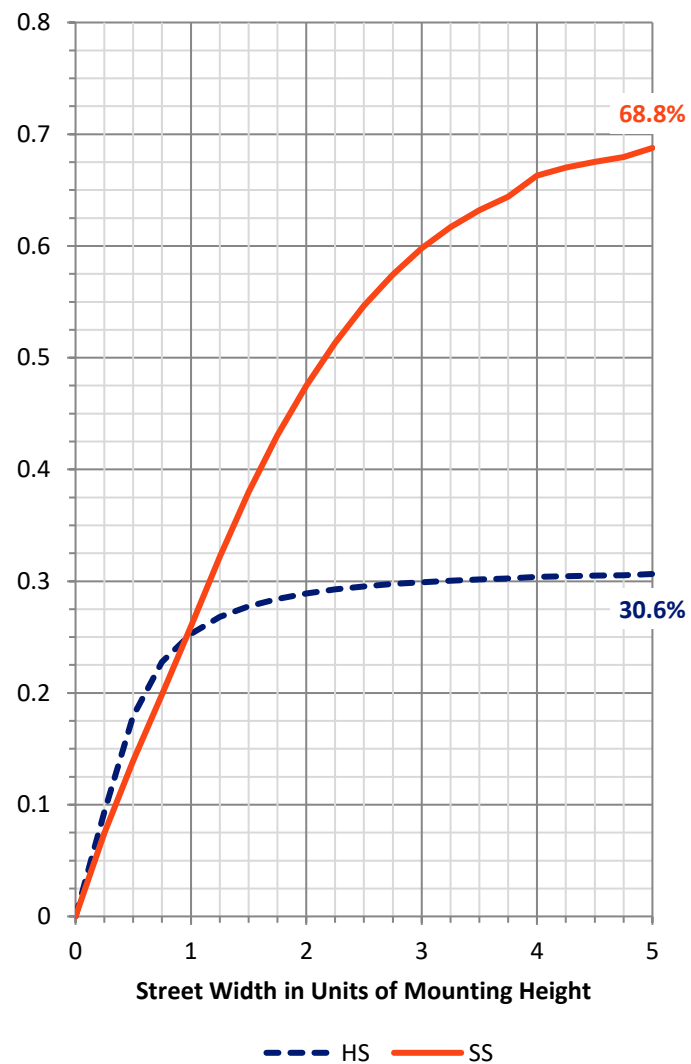
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7217.0	0.0	7217.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	16076.1	0.0	16076.1
	% Fixture	69.0	0.0	69.0
Total	Lumens	23293.0	0.0	23293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.9	1.1
10°-20°	892.7	3.8
20°-30°	1629.9	7.0
30°-40°	2311.7	9.9
40°-50°	3121.5	13.4
50°-60°	4199.3	18.0
60°-70°	5329.8	22.9
70°-80°	4837.1	20.8
80°-90°	705.1	3.0
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°	23293.0	100.0
0°-180°	23293.0	100.0

Coefficient of Utilization



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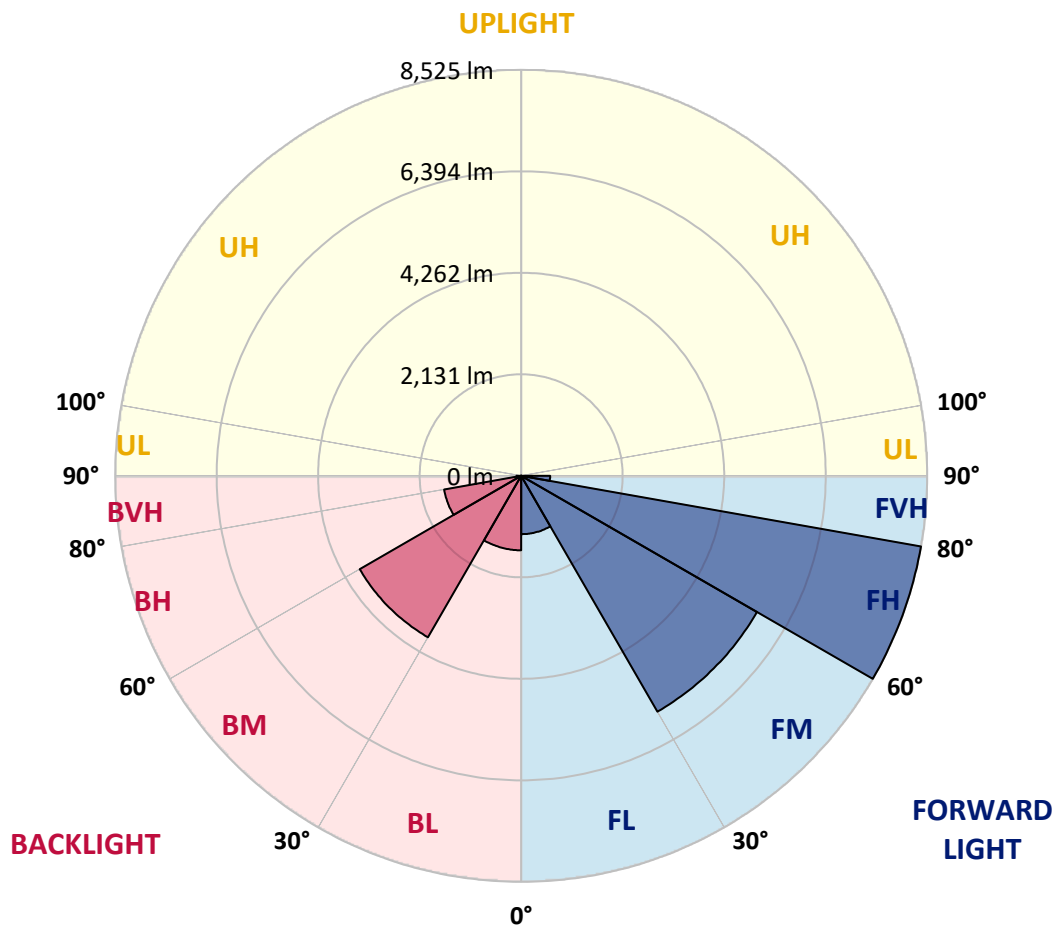
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1225.2	5.3			
FM	(30°-60°)	5717.9	24.5			
FH	(60°-80°)	8524.9	36.6			G4/12000
FVH	(80°-90°)	608.0	2.6			G4/750
BL	(0°-30°)	1563.3	6.7	B3/2500		
BM	(30°-60°)	3914.5	16.8	B3/5000		
BH	(60°-80°)	1642.1	7.0	B3/2500		G3/2500
BVH	(80°-90°)	97.1	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-G4

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6
2.5°	2622.8	2637.6	2633.9	2629.0	2629.0	2630.2	2629.0	2637.6	2646.3	2654.9	2668.5
5°	2650.0	2664.8	2657.4	2651.2	2646.3	2645.1	2641.3	2640.1	2645.1	2656.2	2674.7
7.5°	2703.1	2717.9	2706.8	2695.7	2685.8	2680.9	2675.9	2668.5	2664.8	2671.0	2696.9
10°	2762.4	2777.2	2763.7	2743.9	2727.8	2721.7	2716.7	2709.3	2704.4	2708.1	2736.5
12.5°	2821.7	2836.5	2818.0	2790.8	2769.8	2766.1	2759.9	2757.5	2756.2	2755.0	2783.4
15°	2877.3	2889.7	2866.2	2834.1	2811.8	2805.7	2799.5	2803.2	2809.4	2816.8	2848.9
17.5°	2920.6	2932.9	2898.3	2856.3	2835.3	2832.8	2829.1	2841.5	2858.8	2877.3	2916.8
20°	2960.1	2972.4	2928.0	2871.1	2846.4	2846.4	2847.7	2873.6	2898.3	2925.5	2979.9
22.5°	3015.7	3025.6	2971.2	2893.4	2857.5	2860.0	2869.9	2895.8	2926.7	2963.8	3039.2
25°	3098.5	3105.9	3039.2	2935.4	2894.6	2902.0	2910.7	2923.0	2952.7	2995.9	3097.2
27.5°	3231.9	3238.1	3150.3	3009.5	2947.7	2960.1	2972.4	2963.8	2977.4	3014.4	3144.2
30°	3419.7	3423.4	3312.2	3125.6	3037.9	3044.1	3046.6	3010.7	2984.8	3014.4	3177.5
32.5°	3642.0	3640.8	3508.6	3266.5	3140.5	3134.3	3113.3	3042.9	2982.3	3008.3	3207.2
35°	3986.7	3973.1	3802.7	3464.1	3256.6	3218.3	3168.9	3078.7	2994.7	3002.1	3233.1
37.5°	4557.5	4515.5	4279.5	3787.8	3429.6	3332.0	3259.1	3136.8	3021.9	2999.6	3264.0
40°	5201.2	5148.0	4888.6	4231.3	3689.0	3532.1	3414.7	3219.5	3066.3	3010.7	3309.7
42.5°	5964.7	5889.3	5610.1	4753.9	4017.6	3790.3	3613.6	3324.5	3131.8	3046.6	3371.5
45°	6902.3	6802.3	6406.9	5343.2	4431.5	4128.8	3892.8	3483.9	3231.9	3115.8	3464.1
47.5°	7849.9	7874.6	7312.5	6017.8	4928.1	4546.4	4242.5	3723.6	3377.7	3226.9	3613.6
50°	8856.8	8874.1	8213.1	6765.2	5491.5	5018.3	4635.3	3991.7	3580.3	3385.1	3837.2
52.5°	9642.5	9645.0	9031.0	7547.2	6078.3	5537.2	5059.1	4298.1	3815.0	3595.1	4135.0
55°	10134.2	10128.0	9604.2	8287.3	6752.9	6082.0	5528.5	4646.4	4101.6	3842.2	4509.3
57.5°	10491.3	10472.7	9999.6	8923.5	7471.9	6725.7	6059.8	5041.8	4440.1	4136.2	5002.3
60°	10627.2	10616.0	10267.7	9473.3	8228.0	7437.3	6672.6	5484.1	4824.4	4483.4	5636.0
62.5°	10679.1	10700.1	10530.8	10005.7	9037.2	8225.5	7345.9	6012.8	5256.8	4876.2	6304.4
65°	10861.9	10900.2	10865.6	10702.5	9951.4	9148.4	8239.1	6641.7	5728.7	5297.5	7002.4
67.5°	11223.9	11262.2	11277.0	11536.4	11068.2	10298.5	9353.4	7424.9	6280.9	5734.9	7527.5
70°	11215.2	11204.1	11466.0	12199.9	12466.7	11891.0	10855.7	8388.6	6939.4	6098.1	7594.2
72.5°	10208.4	10119.4	10738.4	12192.5	13630.5	13553.9	12690.3	9631.4	7507.7	6142.6	6589.8
75°	7658.4	7421.2	8514.6	10987.9	13824.5	14497.8	13856.6	10402.3	7373.0	5427.2	4585.9
77.5°	3275.1	3036.7	4325.2	8134.1	12372.8	13552.7	12786.7	9075.5	5885.6	3588.9	2252.2
80°	857.4	856.2	1307.1	3687.8	8414.5	10008.2	8780.2	5860.9	3362.8	1282.4	621.4
82.5°	354.6	345.9	480.6	1434.3	4111.5	5616.3	4583.4	2614.2	1214.4	347.2	206.3
85°	132.2	131.0	233.5	495.4	1450.4	2316.4	1676.5	668.4	302.7	169.3	92.7
87.5°	37.1	35.8	50.7	171.7	353.3	536.2	286.6	110.0	85.2	66.7	27.2
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°	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6	2663.6
2.5°	2672.2	2678.4	2689.5	2698.2	2709.3	2721.7	2738.9	2750.1	2761.2	2768.6	2763.7
5°	2683.4	2696.9	2725.4	2753.8	2787.1	2818.0	2853.8	2879.8	2900.8	2907.0	2909.4
7.5°	2708.1	2730.3	2778.5	2826.7	2879.8	2930.4	2982.3	3026.8	3062.6	3076.2	3077.5
10°	2751.3	2781.0	2848.9	2916.8	2987.3	3065.1	3131.8	3196.1	3246.7	3267.7	3268.9
12.5°	2805.7	2842.7	2931.7	3025.6	3123.2	3230.6	3317.1	3396.2	3459.2	3487.6	3487.6
15°	2876.1	2924.3	3037.9	3163.9	3307.2	3456.7	3566.7	3654.4	3724.8	3759.4	3756.9
17.5°	2952.7	3016.9	3160.2	3350.5	3555.6	3752.0	3880.5	3944.7	4017.6	4051.0	4049.7
20°	3026.8	3105.9	3311.0	3587.7	3860.7	4069.5	4173.3	4190.6	4195.5	4199.2	4209.1
22.5°	3103.4	3209.6	3500.0	3886.7	4179.5	4324.0	4338.8	4264.7	4160.9	4112.7	4126.3
25°	3187.4	3328.2	3747.1	4216.5	4453.7	4471.0	4357.4	4177.0	3980.6	3890.4	3904.0
27.5°	3268.9	3465.4	4043.6	4531.6	4651.4	4499.4	4254.8	3999.1	3761.9	3666.8	3677.9
30°	3350.5	3622.3	4370.9	4807.1	4741.6	4429.0	4093.0	3807.6	3569.2	3469.1	3480.2
32.5°	3433.3	3805.1	4747.8	5006.0	4725.5	4279.5	3891.6	3592.6	3382.6	3277.6	3291.2
35°	3527.2	4030.0	5104.8	5114.7	4618.0	4059.6	3626.0	3335.7	3152.8	3068.8	3087.3
37.5°	3649.5	4315.4	5419.8	5141.9	4430.2	3737.2	3296.1	3031.7	2881.0	2842.7	2869.9
40°	3801.4	4658.8	5660.7	5098.6	4152.3	3345.5	2935.4	2724.1	2638.9	2647.5	2677.2
42.5°	3999.1	5043.0	5830.0	4987.4	3765.6	2941.6	2619.1	2525.2	2566.0	2600.6	2632.7
45°	4256.1	5442.1	5935.0	4798.4	3328.2	2599.3	2432.6	2454.8	2485.7	2489.4	2514.1
47.5°	4584.7	5846.1	6004.2	4513.0	2882.3	2358.4	2314.0	2318.9	2312.7	2286.8	2306.5
50°	4994.8	6238.9	6066.0	4135.0	2503.0	2207.7	2148.4	2131.1	2045.9	1961.9	1973.0
52.5°	5461.8	6599.7	6091.9	3665.5	2207.7	2081.7	1985.3	1876.6	1717.2	1691.3	1700.0
55°	5980.7	6933.2	6025.2	3088.6	1959.4	1919.9	1774.1	1643.1	1625.8	1603.6	1607.3
57.5°	6600.9	7292.7	5889.3	2444.9	1704.9	1730.8	1588.8	1603.6	1572.7	1538.1	1531.9
60°	7279.1	7664.6	5650.9	1858.1	1441.7	1494.9	1540.6	1539.3	1530.7	1502.3	1492.4
62.5°	7889.5	7909.2	5181.4	1423.2	1210.7	1312.0	1436.8	1435.6	1428.2	1412.1	1405.9
65°	8252.7	7872.2	4398.1	1120.5	1020.5	1161.3	1296.0	1305.8	1307.1	1305.8	1305.8
67.5°	8188.4	7438.5	3323.3	892.0	863.6	1008.1	1156.4	1170.0	1179.8	1182.3	1184.8
70°	7462.0	6486.0	2166.9	711.6	724.0	873.4	1024.2	1037.8	1046.4	1056.3	1061.2
72.5°	5816.4	4768.8	1240.4	575.7	601.7	757.3	893.2	909.3	914.2	932.7	940.2
75°	3544.4	2804.4	669.6	453.4	494.2	647.4	763.5	782.0	790.7	812.9	815.4
77.5°	1685.1	1214.4	381.7	353.3	397.8	528.8	644.9	665.9	642.4	654.8	644.9
80°	569.5	450.9	240.9	269.3	303.9	412.6	516.4	537.4	488.0	485.5	480.6
82.5°	198.9	182.8	153.2	179.1	196.4	295.3	390.4	417.6	363.2	362.0	344.7
85°	77.8	74.1	85.2	97.6	117.4	181.6	257.0	270.6	223.6	180.4	177.9
87.5°	16.1	17.3	21.0	22.2	35.8	63.0	92.7	113.7	90.2	76.6	70.4
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)