

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: STREETWORKS

Report Number: P836307

Luminaire Tested: **ARCH3-170-722-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836307
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-170-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1310mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20332 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.6
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

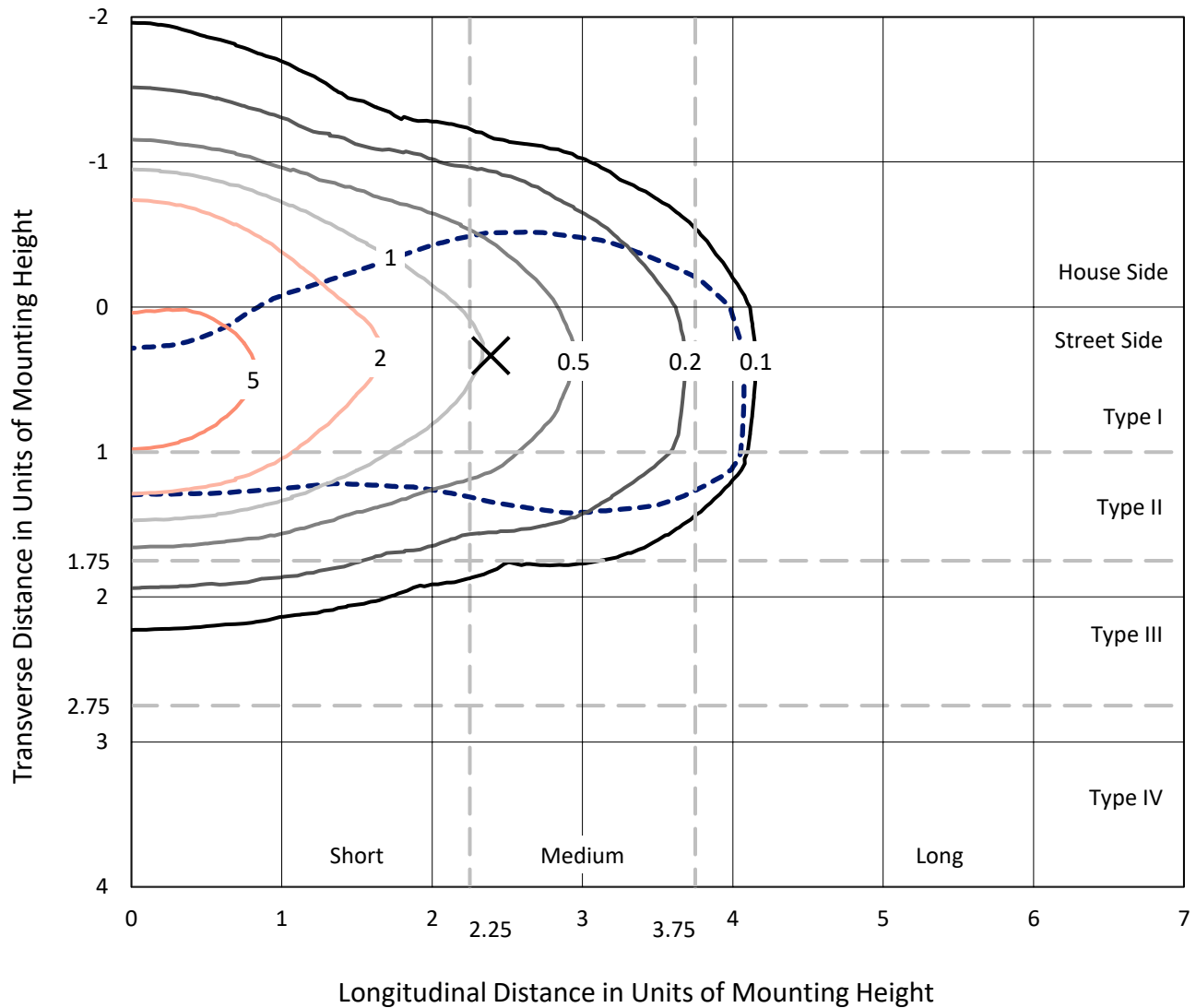


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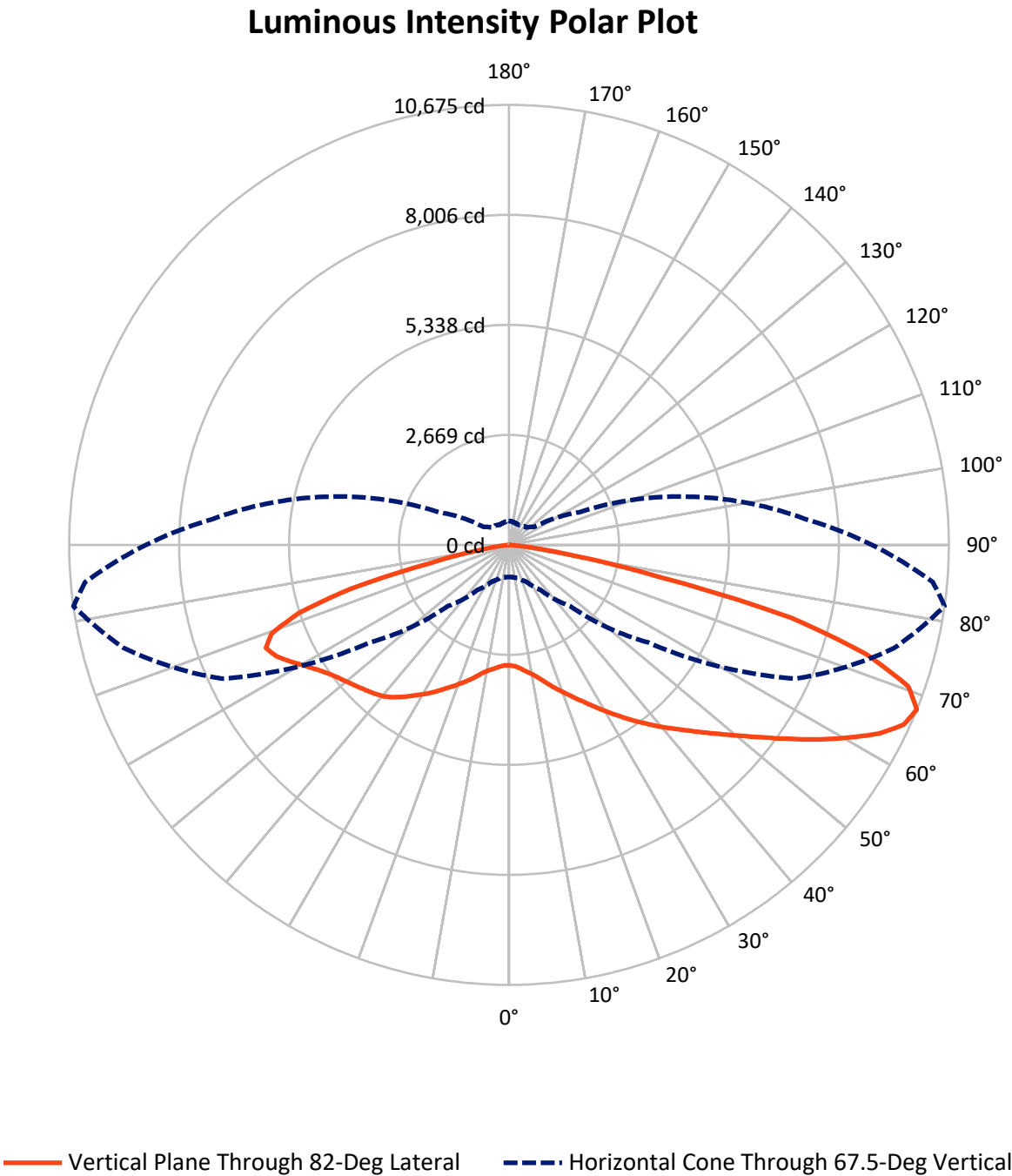
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
Type II - Medium - N/A

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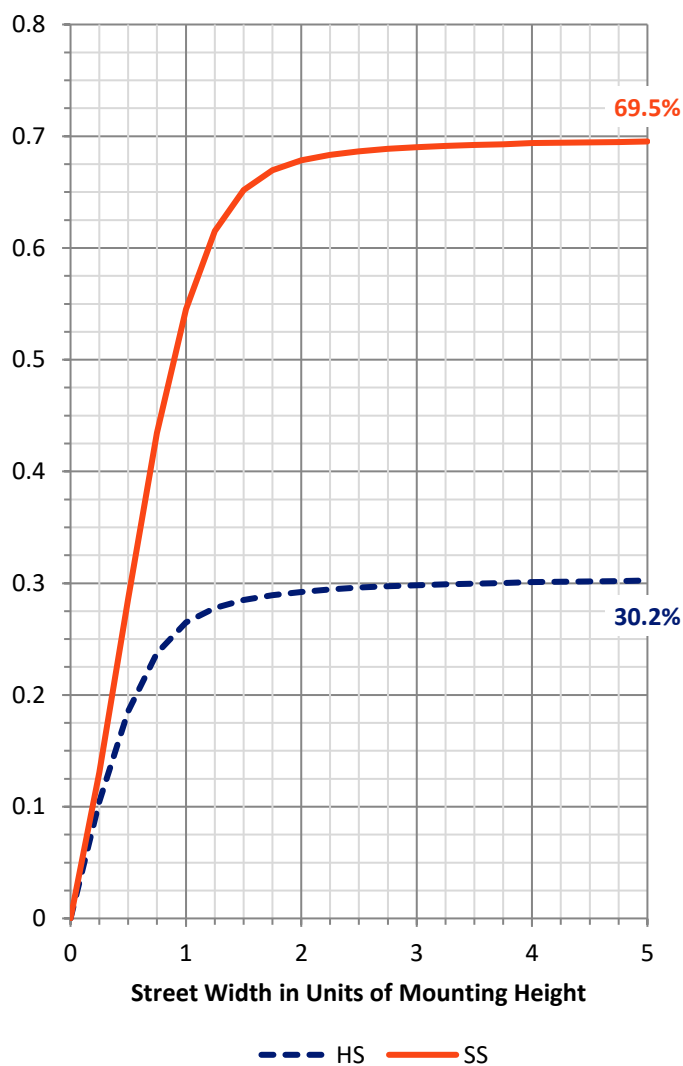
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6191.9	0.0	6191.9
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	14140.1	0.0	14140.1
	% Fixture	69.5	0.0	69.5
Total	Lumens	20332.0	0.0	20332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.1	1.5
10°-20°	1088.0	5.4
20°-30°	2186.6	10.8
30°-40°	3434.9	16.9
40°-50°	4184.3	20.6
50°-60°	3953.7	19.4
60°-70°	3264.8	16.1
70°-80°	1777.8	8.7
80°-90°	139.8	0.7
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°	20332.0	100.0
0°-180°	20332.0	100.0

Coefficient of Utilization



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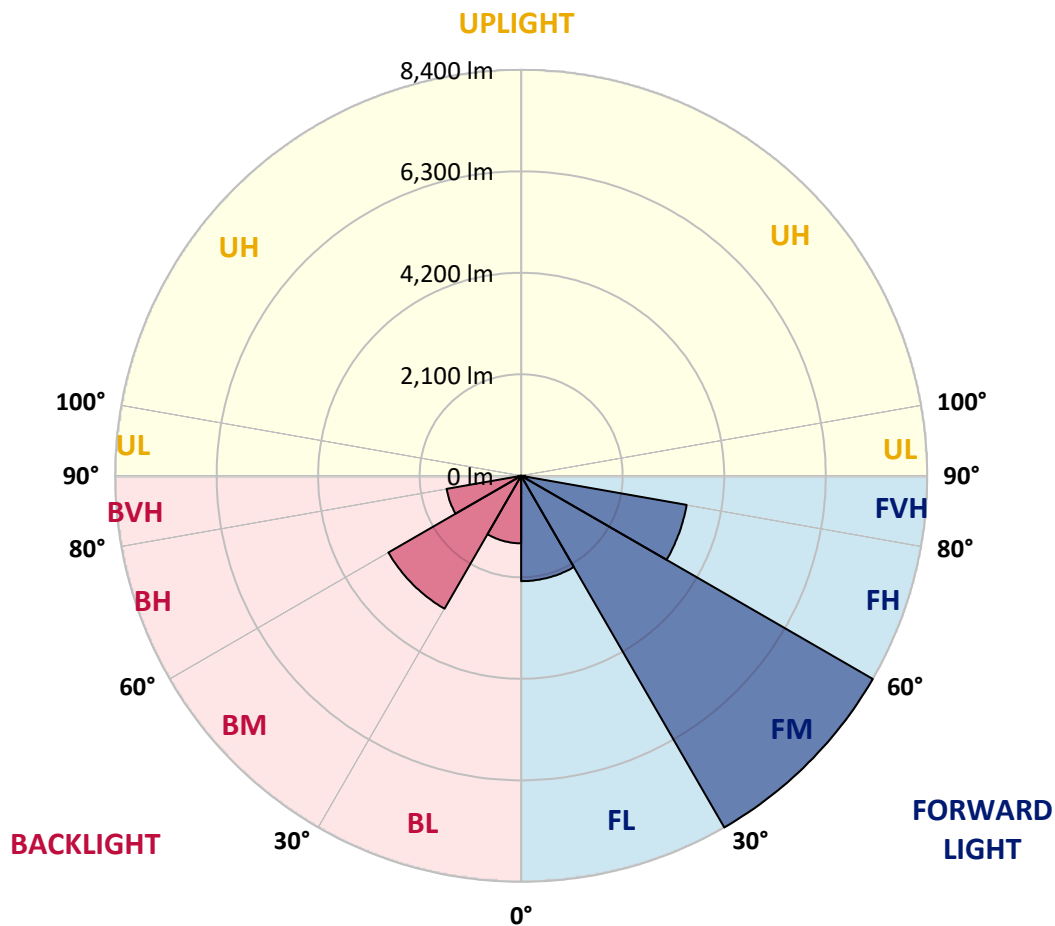
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2180.3	10.7			
FM	(30°-60°)	8400.0	41.3			
FH	(60°-80°)	3475.5	17.1			G2/5000
FVH	(80°-90°)	84.3	0.4			G1/100
BL	(0°-30°)	1396.3	6.9	B3/2500		
BM	(30°-60°)	3172.9	15.6	B3/5000		
BH	(60°-80°)	1567.2	7.7	B3/2500		G3/2500
BVH	(80°-90°)	55.5	0.3			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7
2.5°	3055.6	3055.6	3079.2	3079.2	3058.5	3026.0	3017.2	2981.8	2949.3	2949.3	2952.2
5°	3347.8	3344.9	3362.6	3339.0	3288.8	3223.8	3179.6	3102.8	3037.9	3017.2	3014.2
7.5°	3705.1	3702.1	3711.0	3672.6	3578.1	3471.8	3383.3	3259.3	3153.0	3108.7	3096.9
10°	4103.6	4100.7	4091.8	4026.9	3899.9	3734.6	3601.7	3430.5	3271.1	3200.2	3185.5
12.5°	4561.2	4555.3	4534.6	4440.2	4266.0	4053.4	3861.5	3640.1	3427.5	3330.1	3297.6
15°	5071.9	5063.1	5024.7	4909.6	4676.3	4407.7	4159.7	3876.3	3616.5	3489.5	3445.3
17.5°	5609.3	5609.3	5550.2	5379.0	5119.2	4785.6	4478.5	4118.4	3814.3	3657.8	3604.7
20°	6155.4	6152.5	6078.7	5872.0	5565.0	5181.2	4791.5	4395.9	4018.0	3829.1	3764.1
22.5°	6731.1	6725.2	6633.7	6397.5	6031.4	5597.4	5142.8	4670.4	4242.4	4015.0	3932.4
25°	7392.4	7383.5	7271.4	6982.0	6548.1	6058.0	5538.4	4992.2	4499.2	4221.7	4124.3
27.5°	8095.0	8083.2	7950.4	7613.8	7138.5	6548.1	5975.3	5364.2	4782.6	4452.0	4342.7
30°	8720.9	8712.1	8567.4	8222.0	7675.8	7035.2	6391.6	5736.2	5080.8	4697.0	4561.2
32.5°	9193.3	9193.3	9063.4	8723.9	8157.0	7501.6	6810.8	6087.5	5390.8	4959.8	4800.3
35°	9479.6	9488.5	9376.3	9104.7	8570.3	7941.5	7244.8	6500.8	5721.4	5240.2	5069.0
37.5°	9521.0	9550.5	9485.5	9302.5	8856.7	8307.6	7669.9	6899.4	6063.9	5523.6	5331.7
40°	9329.1	9349.7	9352.7	9281.8	8974.8	8570.3	8044.8	7321.5	6427.0	5821.8	5600.4
42.5°	8945.3	8960.0	8986.6	9007.3	8889.2	8685.5	8331.2	7714.2	6813.8	6125.9	5866.1
45°	8449.3	8446.3	8490.6	8579.2	8573.3	8620.5	8490.6	8071.4	7215.3	6471.3	6161.3
47.5°	7708.3	7693.5	7850.0	8050.7	8151.1	8372.5	8493.6	8351.9	7652.2	6852.1	6497.9
50°	6548.1	6533.3	6875.8	7348.1	7643.3	7979.9	8331.2	8520.2	8109.8	7280.2	6864.0
52.5°	5136.9	5122.1	5556.1	6382.7	7026.3	7516.4	8003.5	8558.5	8543.8	7758.5	7277.3
55°	3820.2	3808.4	4230.6	5125.1	6167.2	6979.1	7602.0	8458.2	8951.2	8307.6	7779.1
57.5°	2692.4	2686.5	3052.6	3793.6	5063.1	6323.7	7215.3	8263.3	9326.1	8903.9	8346.0
60°	1889.4	1880.6	2146.3	2719.0	3829.1	5334.7	6831.5	8003.5	9606.6	9491.4	8948.2
62.5°	1272.4	1266.5	1455.5	1933.7	2719.0	4106.6	6249.9	7829.3	9766.0	10081.9	9556.4
65°	965.4	962.4	1048.0	1310.8	1924.9	2949.3	5325.8	7808.7	9786.7	10524.7	10073.0
67.5°	779.4	782.3	829.6	980.1	1331.5	2096.1	4130.2	7678.8	9677.4	10675.3	10324.0
70°	637.7	637.7	658.3	758.7	983.1	1414.1	2884.3	7088.3	9373.4	10282.6	10025.8
72.5°	487.1	490.1	555.0	614.1	741.0	992.0	1848.1	5866.1	8656.0	9066.3	8871.5
75°	386.7	383.8	422.2	504.8	575.7	708.5	1133.7	4206.9	7365.8	7085.4	6961.4
77.5°	277.5	274.6	304.1	374.9	436.9	501.9	676.1	2122.7	4006.2	3681.4	3589.9
80°	188.9	183.0	209.6	259.8	289.3	295.2	330.7	814.8	1747.7	1647.3	1626.7
82.5°	97.4	97.4	112.2	147.6	150.6	153.5	147.6	262.7	578.6	540.3	516.6
85°	38.4	38.4	41.3	50.2	50.2	53.1	53.1	67.9	62.0	59.0	56.1
87.5°	3.0	3.0	5.9	5.9	8.9	8.9	8.9	11.8	14.8	14.8	14.8
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°	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7
2.5°	2946.3	2934.5	2896.1	2887.3	2881.4	2872.5	2875.5	2854.8	2846.0	2848.9	2837.1
5°	2999.5	2978.8	2931.6	2910.9	2905.0	2896.1	2905.0	2890.2	2875.5	2881.4	2875.5
7.5°	3073.3	3043.8	2984.7	2964.0	2961.1	2952.2	2964.0	2952.2	2940.4	2946.3	2934.5
10°	3150.0	3111.7	3046.7	3026.0	3026.0	3023.1	3034.9	3017.2	3005.4	3008.3	3002.4
12.5°	3262.2	3212.0	3141.2	3123.5	3114.6	3123.5	3126.4	3102.8	3082.1	3085.1	3076.2
15°	3398.0	3341.9	3265.2	3238.6	3232.7	3229.7	3217.9	3188.4	3161.8	3158.9	3150.0
17.5°	3545.6	3474.8	3383.3	3356.7	3330.1	3321.3	3291.7	3253.4	3212.0	3212.0	3200.2
20°	3687.3	3607.6	3498.4	3460.0	3421.6	3386.2	3336.0	3274.0	3220.9	3212.0	3200.2
22.5°	3840.9	3746.4	3619.4	3563.3	3495.4	3424.6	3339.0	3256.3	3188.4	3173.7	3164.8
25°	4012.1	3894.0	3743.4	3660.8	3551.5	3442.3	3315.4	3209.1	3129.4	3105.8	3099.8
27.5°	4201.0	4059.3	3876.3	3755.2	3595.8	3424.6	3262.2	3135.3	3037.9	3008.3	2999.5
30°	4392.9	4224.7	3997.3	3820.2	3595.8	3368.5	3164.8	3017.2	2905.0	2863.7	2857.8
32.5°	4584.8	4395.9	4106.6	3855.6	3560.4	3274.0	3037.9	2863.7	2736.7	2686.5	2698.3
35°	4815.1	4584.8	4206.9	3870.4	3501.4	3158.9	2893.2	2689.5	2559.6	2515.3	2524.2
37.5°	5054.2	4773.8	4286.6	3858.6	3418.7	3029.0	2730.8	2533.0	2370.6	2293.9	2302.7
40°	5260.9	4945.0	4342.7	3817.2	3312.4	2881.4	2571.4	2311.6	2087.2	2013.4	2004.6
42.5°	5455.7	5071.9	4372.3	3755.2	3191.4	2710.2	2344.1	2010.5	1786.1	1694.6	1697.5
45°	5659.4	5195.9	4360.5	3672.6	3040.8	2509.4	2051.8	1715.2	1517.4	1434.8	1437.7
47.5°	5892.7	5328.8	4348.6	3584.0	2857.8	2249.6	1771.3	1455.5	1284.2	1225.2	1219.3
50°	6140.7	5476.4	4333.9	3474.8	2654.1	1960.3	1493.8	1213.4	1068.7	1030.3	1021.5
52.5°	6421.1	5635.8	4325.0	3344.9	2409.0	1653.3	1245.8	1000.8	903.4	876.8	873.9
55°	6757.7	5821.8	4336.8	3188.4	2113.8	1363.9	1036.2	862.1	797.1	782.3	779.4
57.5°	7168.0	6060.9	4372.3	3005.4	1803.8	1113.0	882.7	776.4	735.1	723.3	723.3
60°	7613.8	6332.5	4437.2	2798.7	1493.8	918.1	782.3	708.5	690.8	705.6	705.6
62.5°	8095.0	6651.4	4552.3	2547.8	1204.5	776.4	702.6	652.4	640.6	670.2	673.1
65°	8540.8	6961.4	4626.2	2246.7	956.5	673.1	640.6	596.4	602.3	631.8	628.8
67.5°	8815.4	7218.2	4522.8	1868.8	758.7	596.4	575.7	537.3	552.1	575.7	578.6
70°	8647.1	7073.6	4012.1	1411.2	593.4	519.6	504.8	481.2	493.0	522.5	534.4
72.5°	7823.4	6335.5	3120.5	953.6	478.3	436.9	442.8	431.0	445.8	472.4	498.9
75°	6350.3	4788.5	2093.1	611.1	377.9	372.0	380.8	372.0	377.9	404.5	419.2
77.5°	3315.4	2335.2	1042.1	380.8	280.5	289.3	304.1	307.0	324.7	330.7	336.6
80°	1547.0	1051.0	434.0	212.6	186.0	203.7	233.2	236.2	242.1	250.9	253.9
82.5°	504.8	315.9	200.8	115.1	106.3	115.1	150.6	180.1	183.0	200.8	200.8
85°	53.1	32.5	44.3	47.2	41.3	50.2	67.9	64.9	29.5	17.7	17.7
87.5°	14.8	11.8	14.8	14.8	11.8	11.8	8.9	3.0	0.0	0.0	0.0
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)