

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: P1210485

Luminaire Tested: **ARCH3-140-722-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-140-722-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1110mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17385 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 142.5
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

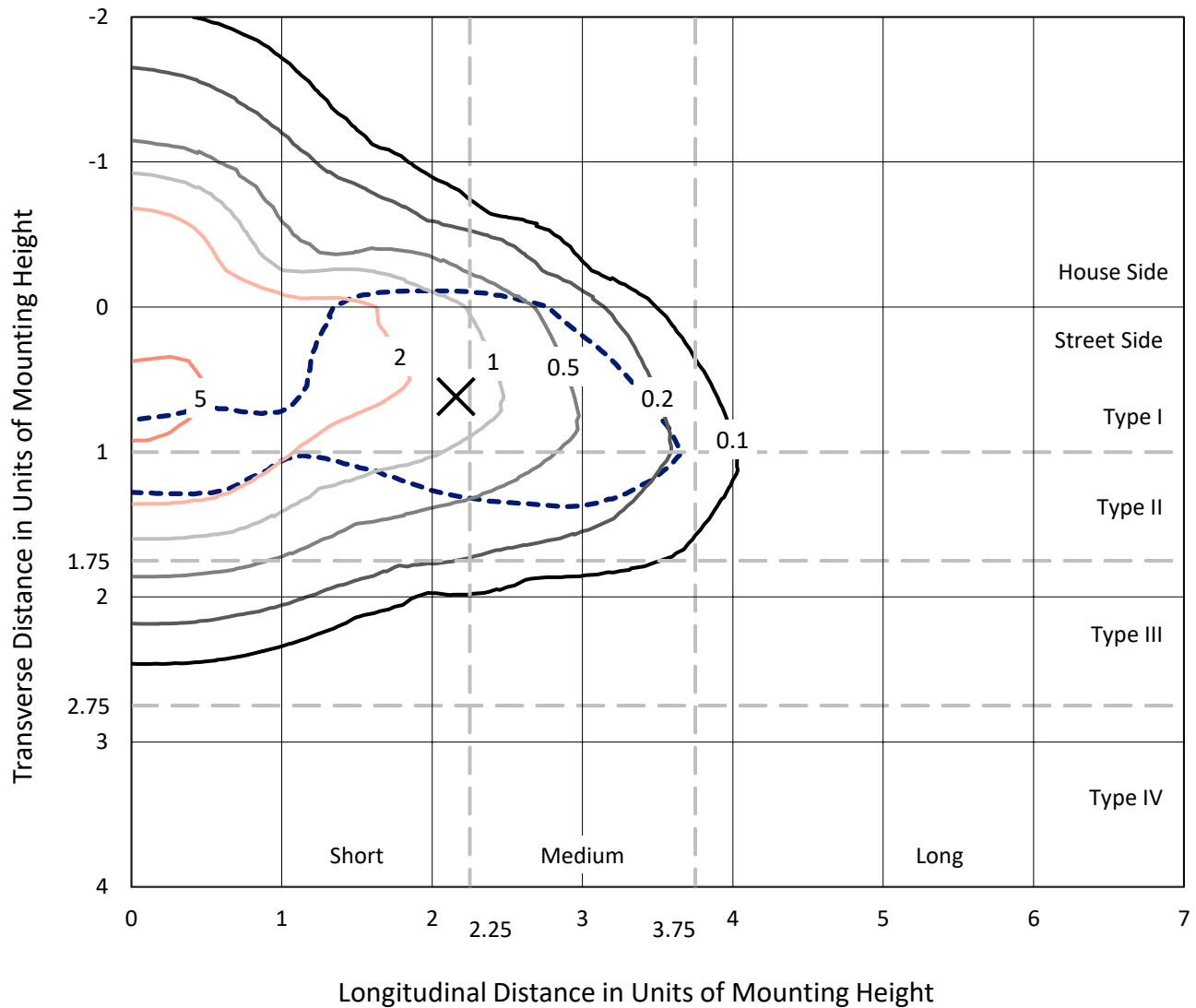


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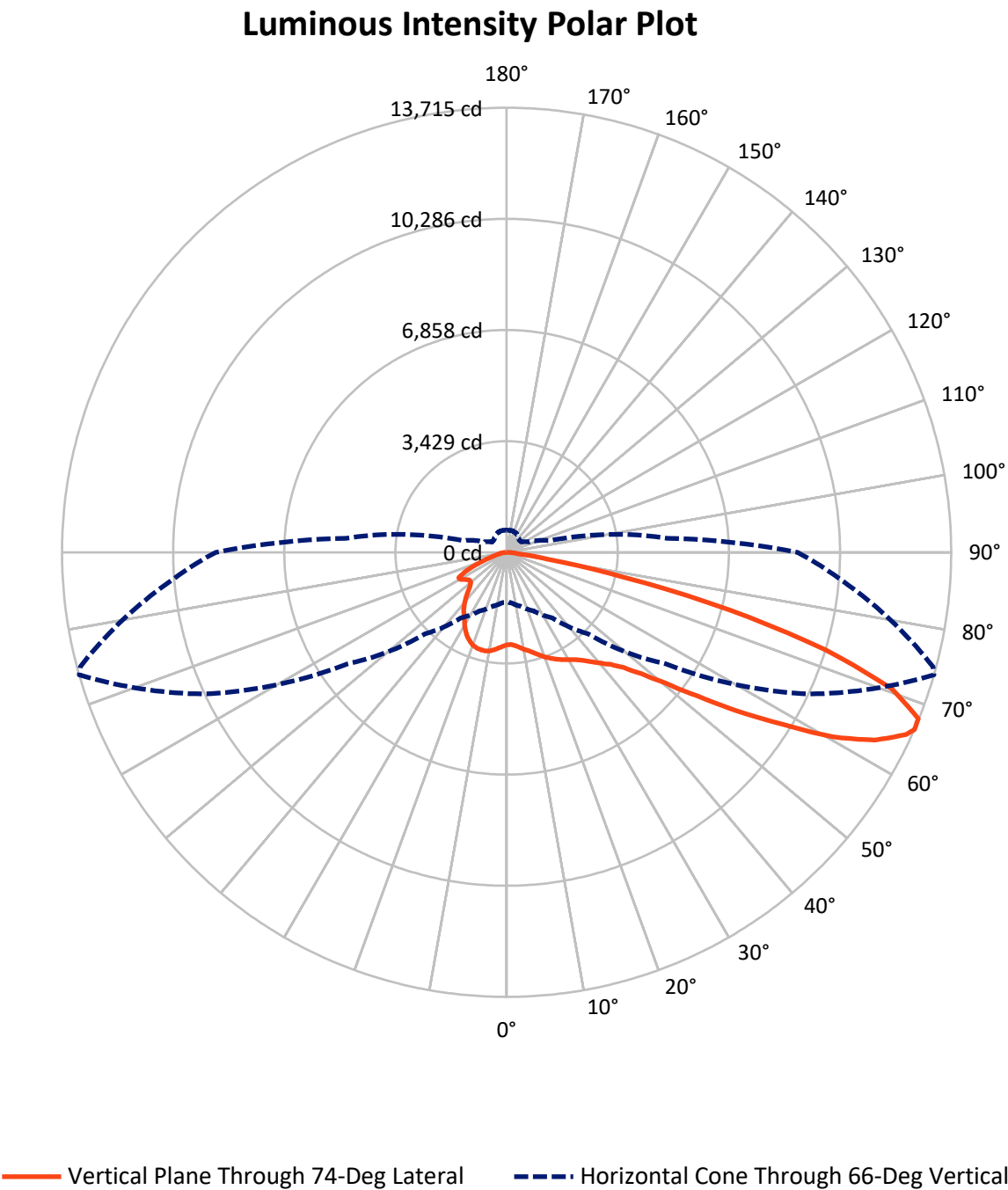
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



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

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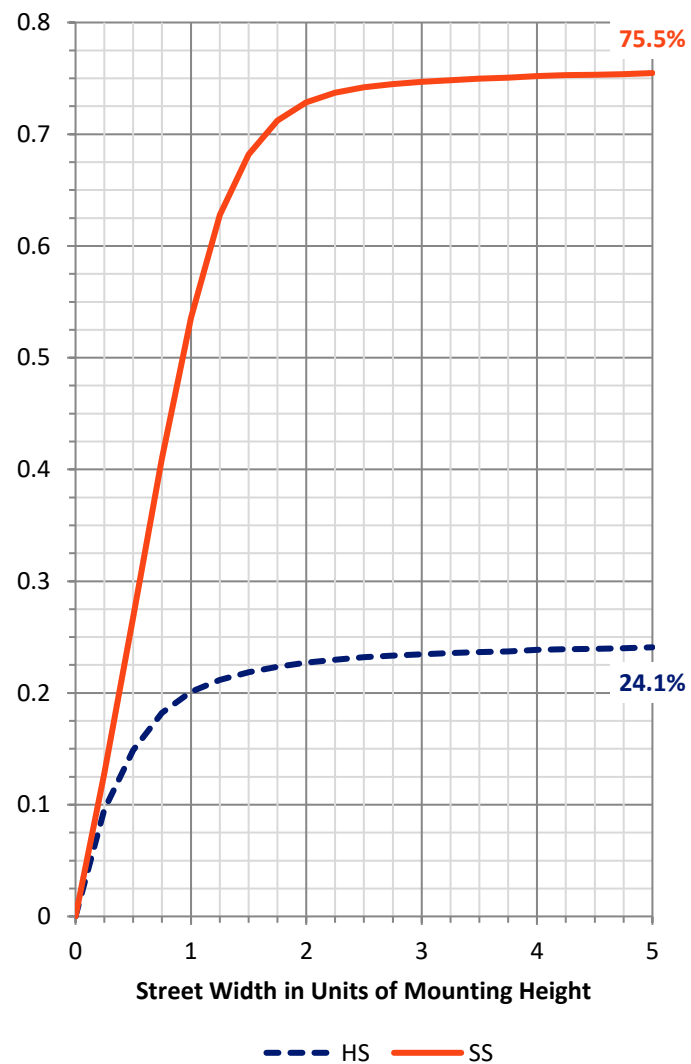
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4233.7	0.0	4233.7
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	13151.3	0.0	13151.3
	% Fixture	75.6	0.0	75.6
Total	Lumens	17385.0	0.0	17385.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	1.6
10°-20°	836.0	4.8
20°-30°	1568.8	9.0
30°-40°	2413.2	13.9
40°-50°	3246.0	18.7
50°-60°	3838.8	22.1
60°-70°	3551.1	20.4
70°-80°	1493.9	8.6
80°-90°	165.3	1.0
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°	17385.0	100.0
0°-180°	17385.0	100.0

Coefficient of Utilization



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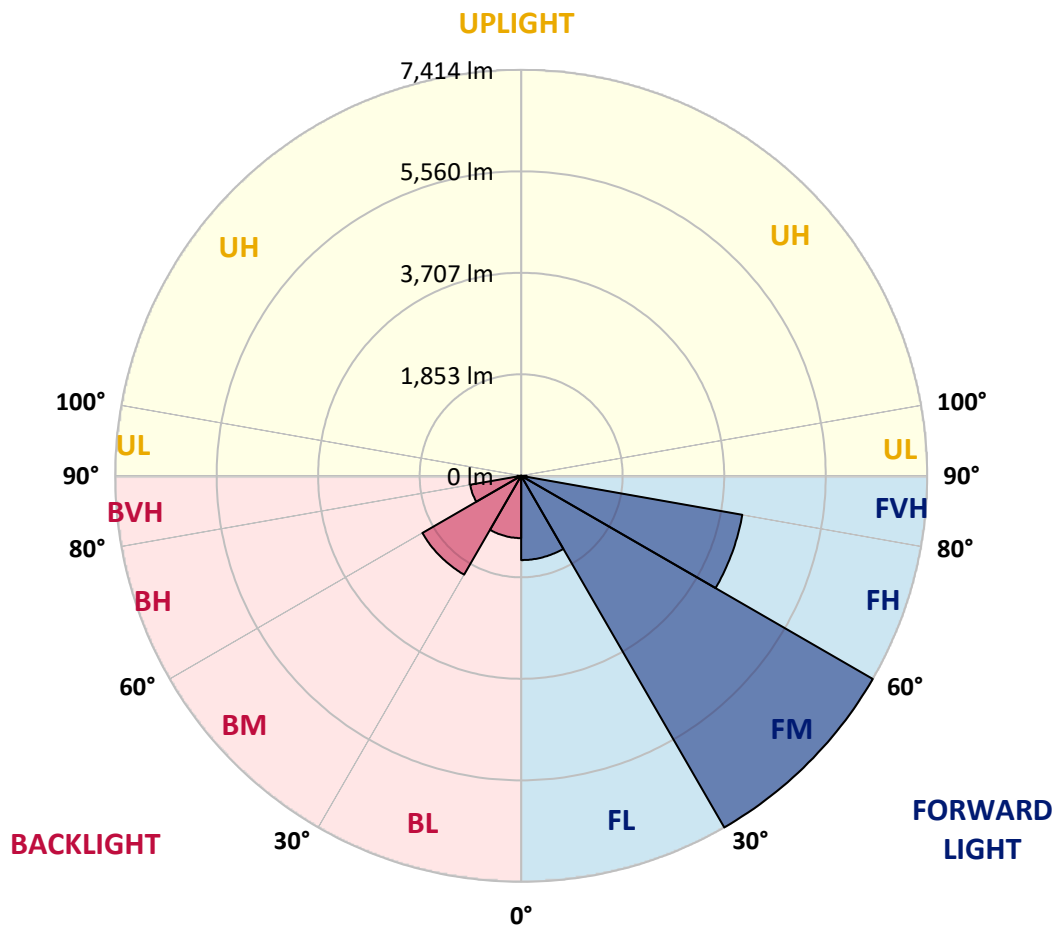
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1538.8	8.9			
FM	(30°-60°)	7413.7	42.6			
FH	(60°-80°)	4099.9	23.6			G2/5000
FVH	(80°-90°)	98.9	0.6			G1/100
BL	(0°-30°)	1137.9	6.5	B3/2500		
BM	(30°-60°)	2084.3	12.0	B2/2500		
BH	(60°-80°)	945.1	5.4	B2/1000		G2/1000
BVH	(80°-90°)	66.4	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0
2.5°	2841.0	2836.6	2845.5	2858.9	2865.6	2854.5	2850.0	2847.7	2847.7	2841.0	2852.2
5°	2706.8	2704.6	2724.7	2749.3	2796.3	2829.8	2874.6	2901.4	2892.5	2879.1	2888.0
7.5°	2532.3	2527.8	2552.5	2599.4	2664.3	2738.1	2847.7	2932.7	2966.3	2961.8	2959.6
10°	2599.4	2595.0	2592.7	2579.3	2601.7	2673.3	2787.3	2937.2	3051.3	3053.5	3055.8
12.5°	2832.1	2843.3	2832.1	2789.6	2740.4	2713.5	2780.6	2948.4	3122.9	3136.3	3192.2
15°	3149.7	3138.6	3116.2	3067.0	2990.9	2910.4	2861.2	2999.9	3225.8	3237.0	3360.0
17.5°	3429.4	3438.3	3424.9	3377.9	3288.4	3183.3	3033.4	3089.3	3335.4	3366.7	3539.0
20°	3733.6	3769.4	3751.5	3693.3	3619.5	3462.9	3275.0	3219.1	3456.2	3478.6	3724.7
22.5°	4084.8	4122.9	4089.3	4033.4	3973.0	3780.6	3539.0	3377.9	3556.9	3603.9	3903.6
25°	4505.4	4541.2	4509.9	4422.6	4346.6	4111.7	3823.1	3556.9	3655.3	3706.8	4049.0
27.5°	4838.7	4865.5	4894.6	4843.2	4726.8	4483.0	4118.4	3742.6	3753.7	3807.4	4183.3
30°	5136.2	5203.3	5227.9	5234.7	5136.2	4863.3	4420.4	3934.9	3838.7	3894.7	4317.5
32.5°	5543.4	5644.0	5603.8	5644.0	5585.9	5221.2	4733.6	4134.0	3948.4	3999.8	4445.0
35°	6138.4	6219.0	6113.8	6082.5	5988.5	5583.6	5035.6	4339.8	4093.8	4149.7	4565.8
37.5°	6778.2	6869.9	6717.8	6592.5	6413.6	5941.6	5295.1	4610.5	4295.1	4339.8	4677.6
40°	7337.5	7413.5	7281.5	7116.0	6816.2	6257.0	5518.8	4800.7	4496.4	4552.4	4807.4
42.5°	7854.2	7903.4	7755.8	7597.0	7196.5	6541.1	5760.4	5002.0	4731.3	4785.0	4912.5
45°	8377.7	8415.7	8209.9	7984.0	7514.2	6800.6	6026.6	5283.9	5075.8	5147.4	5082.5
47.5°	8471.6	8482.8	8447.0	8294.9	7764.7	7048.9	6355.4	5661.9	5601.5	5679.8	5375.6
50°	7820.7	7921.3	8142.8	8292.7	7865.4	7256.9	6684.3	6203.3	6326.3	6427.0	5984.1
52.5°	6556.7	6652.9	7165.2	7733.4	7623.8	7303.9	7037.7	6890.1	7348.7	7469.5	6811.8
55°	5223.5	5308.5	5849.8	6668.6	6843.1	7089.2	7415.8	7767.0	8652.8	8733.4	7720.0
57.5°	4301.8	4348.8	4735.8	5523.2	5802.9	6402.4	7619.3	8809.4	9979.4	10102.4	8509.7
60°	3527.8	3579.3	3867.8	4516.6	4887.9	5420.3	7458.3	9838.5	11563.2	11563.2	9523.0
62.5°	2655.4	2700.1	2968.5	3476.3	4100.5	4588.2	6943.7	10520.8	12757.8	12704.1	10256.8
65°	1823.2	1859.0	2053.6	2391.4	2952.9	3910.3	6241.3	10529.7	13549.7	13478.1	10570.0
66°	1530.1	1561.4	1727.0	1999.9	2471.9	3547.9	5993.0	10339.6	13715.2	13614.6	10438.0
67.5°	1208.0	1230.4	1340.0	1501.0	1812.0	2872.3	5601.5	9800.4	13699.6	13639.2	10102.4
70°	863.5	879.2	959.7	993.2	1071.5	1662.1	4449.5	8583.5	12601.2	12619.1	8782.6
72.5°	668.9	693.5	742.7	749.4	731.5	883.6	2700.1	7160.7	10308.2	10301.5	6518.7
75°	539.1	552.5	577.2	590.6	586.1	570.4	1143.1	5342.0	7095.9	7178.6	3650.8
77.5°	425.0	422.8	445.2	463.1	476.5	447.4	523.5	3131.8	3720.2	3615.0	1371.3
80°	313.2	313.2	344.5	351.2	371.3	375.8	349.0	1208.0	1277.3	1161.0	355.7
82.5°	205.8	205.8	239.4	243.8	264.0	293.1	252.8	362.4	353.5	335.6	161.1
85°	111.9	107.4	118.6	134.2	145.4	172.3	152.1	181.2	185.7	183.4	107.4
87.5°	22.4	20.1	31.3	35.8	40.3	53.7	49.2	73.8	102.9	100.7	47.0
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°	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0	2850.0
2.5°	2867.9	2865.6	2890.2	2919.3	2952.9	2973.0	2982.0	2997.6	2986.4	2990.9	3004.3
5°	2910.4	2917.1	2952.9	2990.9	3006.6	2995.4	2970.8	2961.8	2941.7	2937.2	2932.7
7.5°	2973.0	2984.2	3020.0	3028.9	2982.0	2903.7	2847.7	2816.4	2782.9	2773.9	2769.4
10°	3075.9	3082.6	3091.6	2999.9	2883.5	2778.4	2709.0	2680.0	2657.6	2639.7	2644.2
12.5°	3205.7	3201.2	3131.8	2941.7	2776.2	2668.8	2621.8	2603.9	2588.2	2577.1	2574.8
15°	3369.0	3337.7	3138.6	2861.2	2675.5	2586.0	2552.5	2545.7	2527.8	2527.8	2525.6
17.5°	3534.5	3454.0	3134.1	2776.2	2579.3	2530.1	2510.0	2505.5	2501.0	2498.8	2505.5
20°	3700.1	3556.9	3098.3	2671.0	2512.2	2483.1	2478.6	2480.9	2476.4	2483.1	2478.6
22.5°	3845.5	3624.0	3031.2	2559.2	2465.2	2463.0	2451.8	2456.3	2471.9	2474.2	2480.9
25°	3957.3	3648.6	2932.7	2456.3	2431.7	2427.2	2440.6	2458.5	2471.9	2474.2	2485.3
27.5°	4049.0	3635.2	2809.7	2375.7	2373.5	2398.1	2438.4	2445.1	2447.3	2447.3	2438.4
30°	4118.4	3606.1	2653.1	2286.2	2297.4	2357.8	2395.9	2395.9	2378.0	2373.5	2386.9
32.5°	4134.0	3568.1	2483.1	2194.5	2212.4	2284.0	2331.0	2315.3	2295.2	2295.2	2304.1
35°	4147.5	3516.6	2346.6	2069.3	2096.1	2181.1	2225.8	2194.5	2172.2	2165.4	2163.2
37.5°	4143.0	3496.5	2223.6	1910.4	1946.2	2029.0	2058.1	2029.0	1995.4	1979.8	1999.9
40°	4147.5	3483.1	2069.3	1735.9	1771.7	1820.9	1859.0	1836.6	1805.3	1765.0	1785.2
42.5°	4174.3	3501.0	1899.2	1565.9	1565.9	1592.8	1657.6	1642.0	1565.9	1550.3	1568.2
45°	4317.5	3597.1	1729.2	1395.9	1371.3	1389.2	1456.3	1389.2	1342.2	1342.2	1357.9
47.5°	4664.2	3776.1	1579.3	1246.0	1187.9	1223.7	1241.6	1178.9	1143.1	1134.2	1149.8
50°	5371.1	4134.0	1489.9	1123.0	1051.4	1078.2	1067.1	1064.8	1029.0	1033.5	1042.5
52.5°	6444.9	4832.0	1463.0	1062.6	973.1	979.8	968.6	973.1	966.4	988.8	995.5
55°	7614.9	5568.0	1496.6	1071.5	919.4	872.4	876.9	899.3	926.1	961.9	968.6
57.5°	8489.5	5937.1	1583.8	1131.9	852.3	780.7	791.9	834.4	885.9	914.9	930.6
60°	9140.5	5892.3	1711.3	1147.6	771.8	698.0	718.1	780.7	825.5	850.1	865.7
62.5°	9353.0	5612.7	1742.6	1033.5	666.6	619.7	668.9	733.7	753.9	780.7	791.9
65°	9178.5	5216.8	1514.5	838.9	586.1	561.5	633.1	682.3	709.1	722.6	724.8
66°	8972.7	4979.6	1391.4	762.8	557.0	543.6	619.7	659.9	686.8	684.5	686.8
67.5°	8520.9	4483.0	1192.3	655.5	514.5	516.8	597.3	624.1	633.1	626.4	626.4
70°	6984.0	3156.5	854.5	496.6	451.9	483.2	536.9	543.6	563.7	554.8	554.8
72.5°	4306.3	1550.3	572.7	380.3	402.7	451.9	449.6	472.0	519.0	532.4	541.4
75°	2116.2	628.6	378.1	322.1	360.2	378.1	373.6	429.5	496.6	554.8	574.9
77.5°	803.1	313.2	264.0	281.9	290.8	284.1	297.5	389.2	496.6	601.8	621.9
80°	248.3	217.0	208.0	232.7	219.2	208.0	223.7	322.1	420.6	456.4	456.4
82.5°	149.9	170.0	161.1	158.8	147.6	149.9	161.1	230.4	324.4	340.0	340.0
85°	105.1	111.9	91.7	87.2	85.0	82.8	82.8	134.2	192.4	190.1	196.9
87.5°	40.3	44.7	33.6	33.6	31.3	22.4	17.9	22.4	22.4	15.7	11.2
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)