

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: P1211709

Luminaire Tested: **ARCH4-90-730-U-T2RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211709
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: ARCH4-90-730-U-T2RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15521 lumens
Efficiency: N/A
Efficacy: 166.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 93.1
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

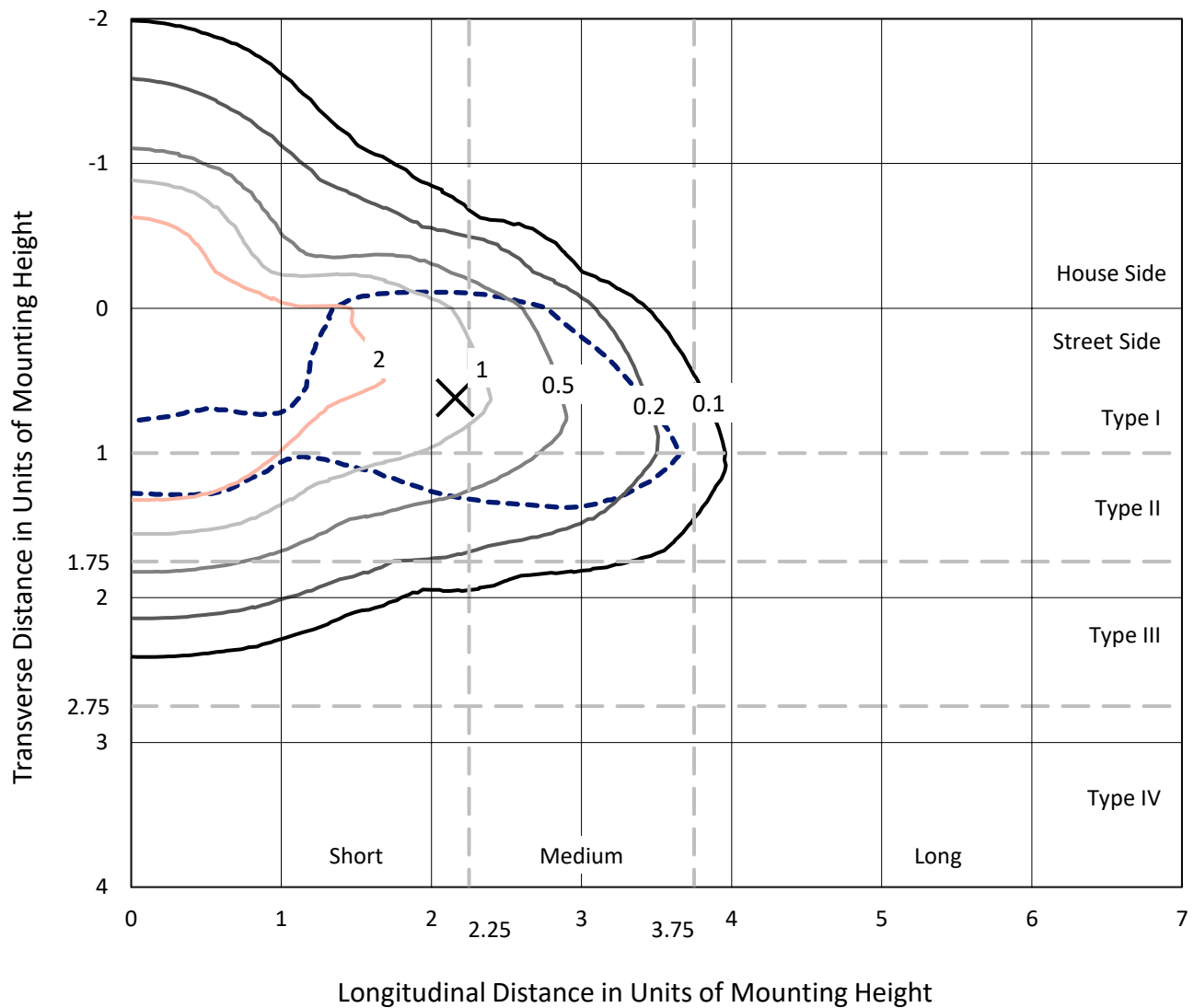


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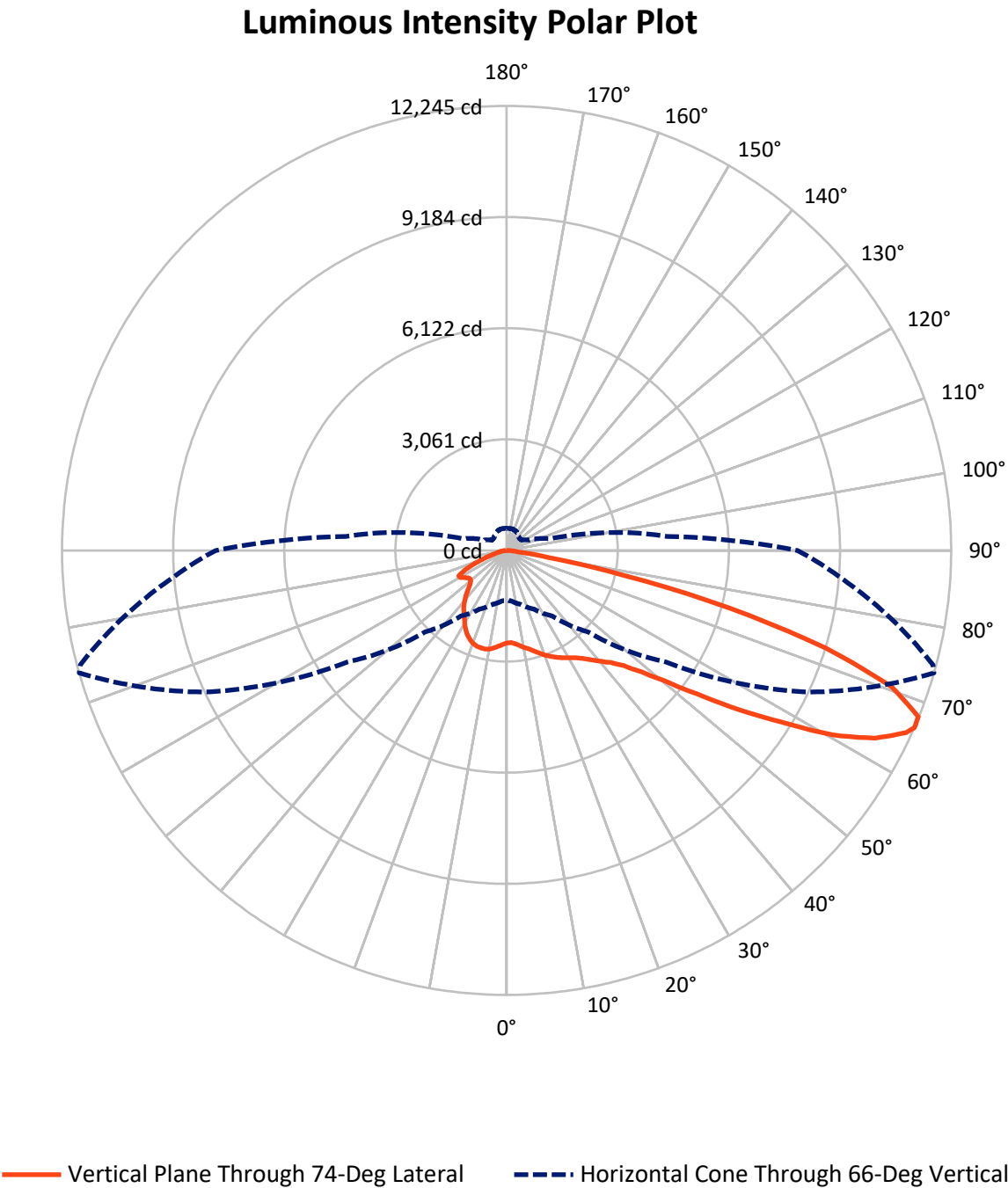
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type II - Short - N/A

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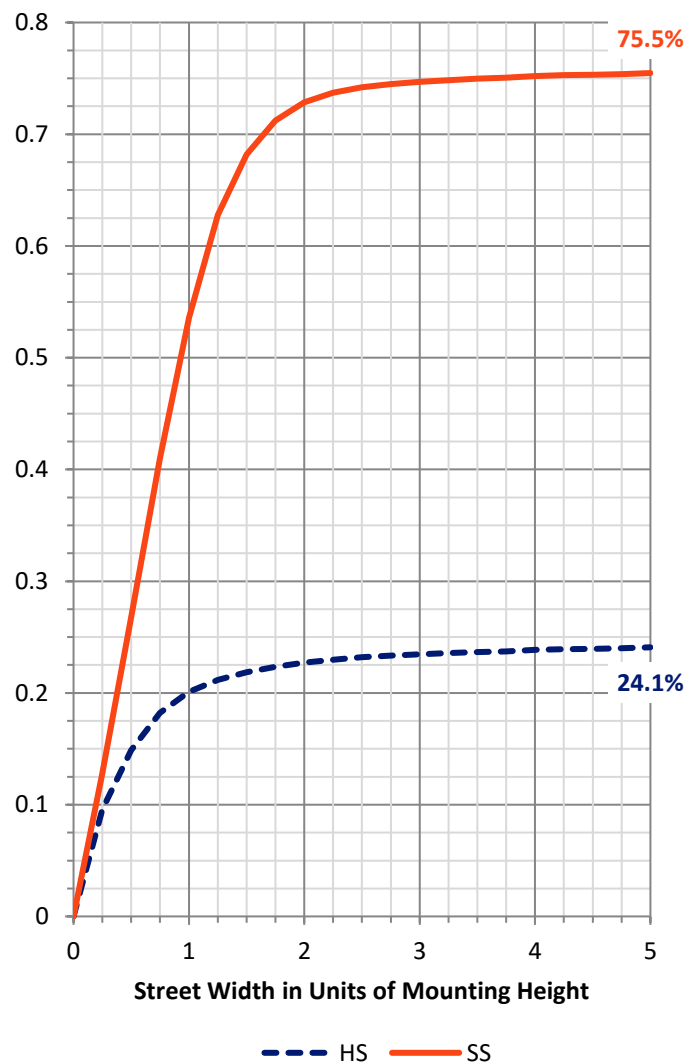
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3779.8	0.0	3779.8
	% Fixture	24.4	0.0	24.4
Street Side	Lumens	11741.2	0.0	11741.2
	% Fixture	75.6	0.0	75.6
Total	Lumens	15521.0	0.0	15521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	1.6
10°-20°	746.4	4.8
20°-30°	1400.6	9.0
30°-40°	2154.5	13.9
40°-50°	2898.0	18.7
50°-60°	3427.2	22.1
60°-70°	3170.3	20.4
70°-80°	1333.7	8.6
80°-90°	147.6	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°	15521.0	100.0
0°-180°	15521.0	100.0

Coefficient of Utilization



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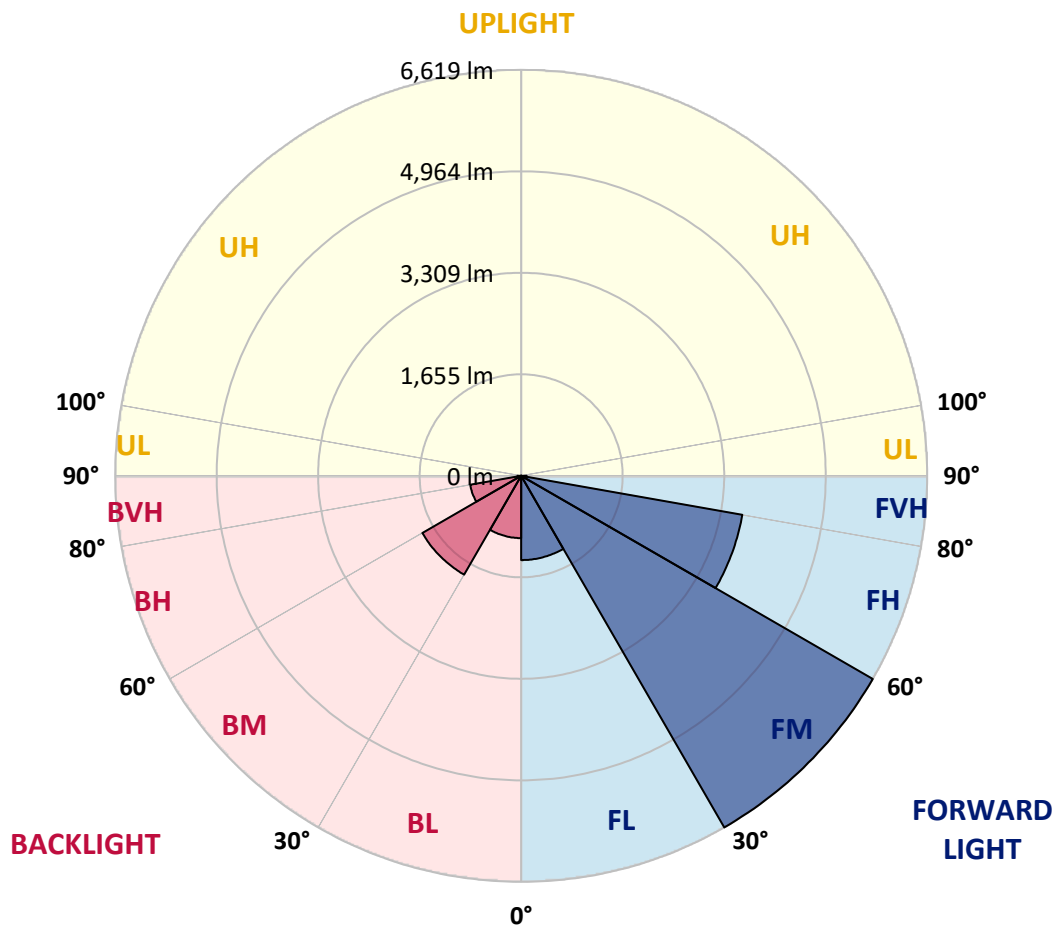
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1373.8	8.9			
FM	(30°-60°)	6618.8	42.6			
FH	(60°-80°)	3660.3	23.6			G2/5000
FVH	(80°-90°)	88.3	0.6			G1/100
BL	(0°-30°)	1015.9	6.5	B3/2500		
BM	(30°-60°)	1860.8	12.0	B2/2500		
BH	(60°-80°)	843.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	59.3	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°	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4
2.5°	2536.4	2532.4	2540.4	2552.4	2558.4	2548.4	2544.4	2542.4	2542.4	2536.4	2546.4
5°	2416.6	2414.6	2432.6	2454.5	2496.5	2526.4	2566.4	2590.3	2582.4	2570.4	2578.4
7.5°	2260.8	2256.8	2278.8	2320.7	2378.6	2444.5	2542.4	2618.3	2648.3	2644.3	2642.3
10°	2320.7	2316.7	2314.7	2302.7	2322.7	2386.6	2488.5	2622.3	2724.2	2726.2	2728.1
12.5°	2528.4	2538.4	2528.4	2490.5	2446.5	2422.6	2482.5	2632.3	2788.1	2800.0	2850.0
15°	2812.0	2802.0	2782.1	2738.1	2670.2	2598.3	2554.4	2678.2	2879.9	2889.9	2999.8
17.5°	3061.7	3069.7	3057.7	3015.7	2935.9	2842.0	2708.2	2758.1	2977.8	3005.8	3159.5
20°	3333.3	3365.2	3349.3	3297.3	3231.4	3091.6	2923.9	2873.9	3085.6	3105.6	3325.3
22.5°	3646.9	3680.8	3650.8	3600.9	3547.0	3375.2	3159.5	3015.7	3175.5	3217.5	3485.1
25°	4022.3	4054.3	4026.3	3948.4	3880.5	3670.8	3413.2	3175.5	3263.4	3309.3	3614.9
27.5°	4319.9	4343.9	4369.8	4323.9	4220.0	4002.3	3676.8	3341.3	3351.3	3399.2	3734.7
30°	4585.5	4645.4	4667.4	4673.4	4585.5	4341.9	3946.4	3513.0	3427.2	3477.1	3854.6
32.5°	4949.0	5038.9	5002.9	5038.9	4987.0	4661.4	4226.0	3690.8	3525.0	3571.0	3968.4
35°	5480.3	5552.2	5458.3	5430.3	5346.5	4985.0	4495.7	3874.5	3654.8	3704.8	4076.2
37.5°	6051.5	6133.3	5997.5	5885.7	5725.9	5304.5	4727.3	4116.2	3834.6	3874.5	4176.1
40°	6550.8	6618.7	6500.8	6353.0	6085.4	5586.1	4927.0	4285.9	4014.3	4064.3	4291.9
42.5°	7012.1	7056.0	6924.2	6782.4	6424.9	5839.8	5142.7	4465.7	4224.0	4272.0	4385.8
45°	7479.4	7513.4	7329.7	7127.9	6708.5	6071.4	5380.4	4717.3	4531.6	4595.5	4537.6
47.5°	7563.3	7573.3	7541.4	7405.5	6932.2	6293.1	5674.0	5054.9	5000.9	5070.8	4799.2
50°	6982.1	7072.0	7269.7	7403.5	7022.1	6478.9	5967.6	5538.2	5648.0	5737.9	5342.5
52.5°	5853.7	5939.6	6397.0	6904.3	6806.4	6520.8	6283.1	6151.3	6560.7	6668.6	6081.4
55°	4663.4	4739.3	5222.6	5953.6	6109.4	6329.1	6620.7	6934.2	7725.1	7797.0	6892.3
57.5°	3840.6	3882.5	4228.0	4931.0	5180.7	5715.9	6802.4	7864.9	8909.4	9019.3	7597.3
60°	3149.6	3195.5	3453.1	4032.3	4363.8	4839.2	6658.6	8783.6	10323.4	10323.4	8502.0
62.5°	2370.7	2410.6	2650.3	3103.6	3660.8	4096.2	6199.2	9392.7	11389.9	11342.0	9157.1
65°	1627.7	1659.7	1833.4	2135.0	2636.3	3491.1	5572.1	9400.7	12096.9	12033.0	9436.7
66°	1366.1	1394.0	1541.8	1785.5	2206.9	3167.5	5350.4	9231.0	12244.7	12154.8	9318.8
67.5°	1078.5	1098.4	1196.3	1340.1	1617.7	2564.4	5000.9	8749.6	12230.7	12176.8	9019.3
70°	770.9	784.9	856.8	886.7	956.6	1483.9	3972.4	7663.2	11250.1	11266.1	7840.9
72.5°	597.2	619.1	663.1	669.1	653.1	788.9	2410.6	6393.0	9203.0	9197.0	5819.8
75°	481.3	493.3	515.3	527.3	523.3	509.3	1020.6	4769.3	6335.1	6409.0	3259.4
77.5°	379.5	377.5	397.4	413.4	425.4	399.4	467.3	2796.1	3321.3	3227.4	1224.3
80°	279.6	279.6	307.6	313.6	331.5	335.5	311.6	1078.5	1140.4	1036.5	317.6
82.5°	183.7	183.7	213.7	217.7	235.7	261.6	225.7	323.5	315.6	299.6	143.8
85°	99.9	95.9	105.9	119.8	129.8	153.8	135.8	161.8	165.8	163.8	95.9
87.5°	20.0	18.0	28.0	32.0	35.9	47.9	43.9	65.9	91.9	89.9	41.9
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°	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4	2544.4
2.5°	2560.4	2558.4	2580.4	2606.3	2636.3	2654.3	2662.2	2676.2	2666.2	2670.2	2682.2
5°	2598.3	2604.3	2636.3	2670.2	2684.2	2674.2	2652.3	2644.3	2626.3	2622.3	2618.3
7.5°	2654.3	2664.2	2696.2	2704.2	2662.2	2592.3	2542.4	2514.5	2484.5	2476.5	2472.5
10°	2746.1	2752.1	2760.1	2678.2	2574.4	2480.5	2418.6	2392.6	2372.7	2356.7	2360.7
12.5°	2862.0	2858.0	2796.1	2626.3	2478.5	2382.6	2340.7	2324.7	2310.7	2300.8	2298.8
15°	3007.8	2979.8	2802.0	2554.4	2388.6	2308.7	2278.8	2272.8	2256.8	2256.8	2254.8
17.5°	3155.5	3083.6	2798.0	2478.5	2302.7	2258.8	2240.8	2236.8	2232.8	2230.9	2236.8
20°	3303.3	3175.5	2766.1	2384.6	2242.8	2216.9	2212.9	2214.9	2210.9	2216.9	2212.9
22.5°	3433.2	3235.4	2706.2	2284.8	2200.9	2198.9	2188.9	2192.9	2206.9	2208.9	2214.9
25°	3533.0	3257.4	2618.3	2192.9	2170.9	2166.9	2178.9	2194.9	2206.9	2208.9	2218.9
27.5°	3614.9	3245.4	2508.5	2121.0	2119.0	2141.0	2176.9	2182.9	2184.9	2184.9	2176.9
30°	3676.8	3219.5	2368.7	2041.1	2051.1	2105.0	2139.0	2139.0	2123.0	2119.0	2131.0
32.5°	3690.8	3185.5	2216.9	1959.2	1975.2	2039.1	2081.1	2067.1	2049.1	2049.1	2057.1
35°	3702.8	3139.6	2095.0	1847.4	1871.4	1947.3	1987.2	1959.2	1939.3	1933.3	1931.3
37.5°	3698.8	3121.6	1985.2	1705.6	1737.5	1811.4	1837.4	1811.4	1781.5	1767.5	1785.5
40°	3702.8	3109.6	1847.4	1549.8	1581.8	1625.7	1659.7	1639.7	1611.7	1575.8	1593.8
42.5°	3726.7	3125.6	1695.6	1398.0	1398.0	1422.0	1479.9	1465.9	1398.0	1384.0	1400.0
45°	3854.6	3211.5	1543.8	1246.2	1224.3	1240.2	1300.2	1240.2	1198.3	1198.3	1212.3
47.5°	4164.1	3371.2	1410.0	1112.4	1060.5	1092.5	1108.4	1052.5	1020.6	1012.6	1026.6
50°	4795.2	3690.8	1330.1	1002.6	938.7	962.6	952.7	950.7	918.7	922.7	930.7
52.5°	5753.9	4313.9	1306.2	948.7	868.8	874.8	864.8	868.8	862.8	882.8	888.7
55°	6798.4	4971.0	1336.1	956.6	820.8	778.9	782.9	802.9	826.8	858.8	864.8
57.5°	7579.3	5300.5	1414.0	1010.6	760.9	697.0	707.0	744.9	790.9	816.8	830.8
60°	8160.5	5260.6	1527.8	1024.6	689.0	623.1	641.1	697.0	737.0	758.9	772.9
62.5°	8350.2	5010.9	1555.8	922.7	595.2	553.2	597.2	655.1	673.0	697.0	707.0
65°	8194.4	4657.4	1352.1	748.9	523.3	501.3	565.2	609.1	633.1	645.1	647.1
66°	8010.7	4445.7	1242.2	681.0	497.3	485.3	553.2	589.2	613.1	611.1	613.1
67.5°	7607.3	4002.3	1064.5	585.2	459.4	461.3	533.2	557.2	565.2	559.2	559.2
70°	6235.2	2818.0	762.9	443.4	403.4	431.4	479.3	485.3	503.3	495.3	495.3
72.5°	3844.6	1384.0	511.3	339.5	359.5	403.4	401.4	421.4	463.3	475.3	483.3
75°	1889.3	561.2	337.5	287.6	321.5	337.5	333.5	383.5	443.4	495.3	513.3
77.5°	717.0	279.6	235.7	251.6	259.6	253.6	265.6	347.5	443.4	537.2	555.2
80°	221.7	193.7	185.7	207.7	195.7	185.7	199.7	287.6	375.5	407.4	407.4
82.5°	133.8	151.8	143.8	141.8	131.8	133.8	143.8	205.7	289.6	303.6	303.6
85°	93.9	99.9	81.9	77.9	75.9	73.9	73.9	119.8	171.8	169.8	175.8
87.5°	35.9	39.9	30.0	30.0	28.0	20.0	16.0	20.0	20.0	14.0	10.0
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)