

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: P835890

Luminaire Tested: **ARCH3-110-727-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16009 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 111.9
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

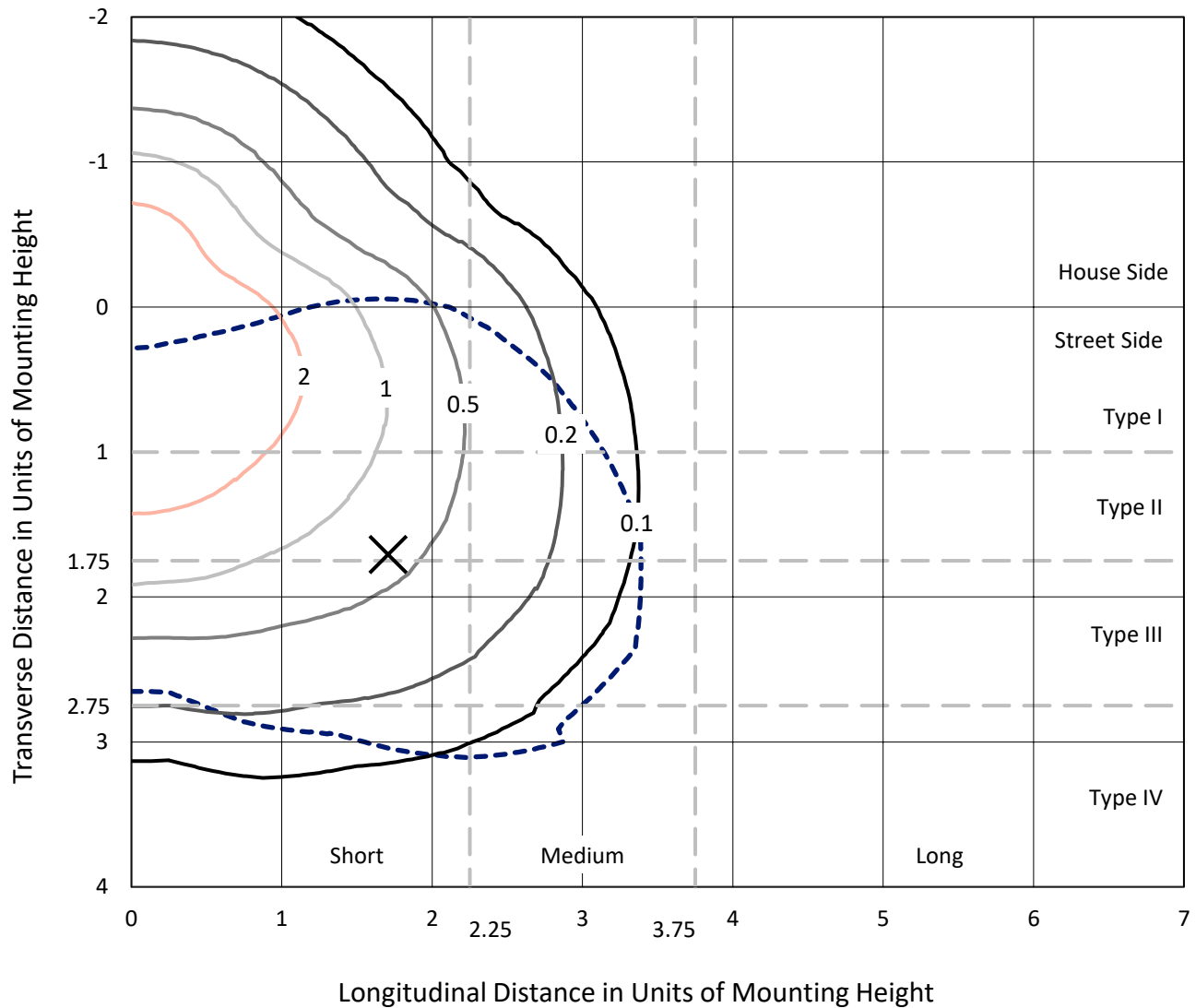


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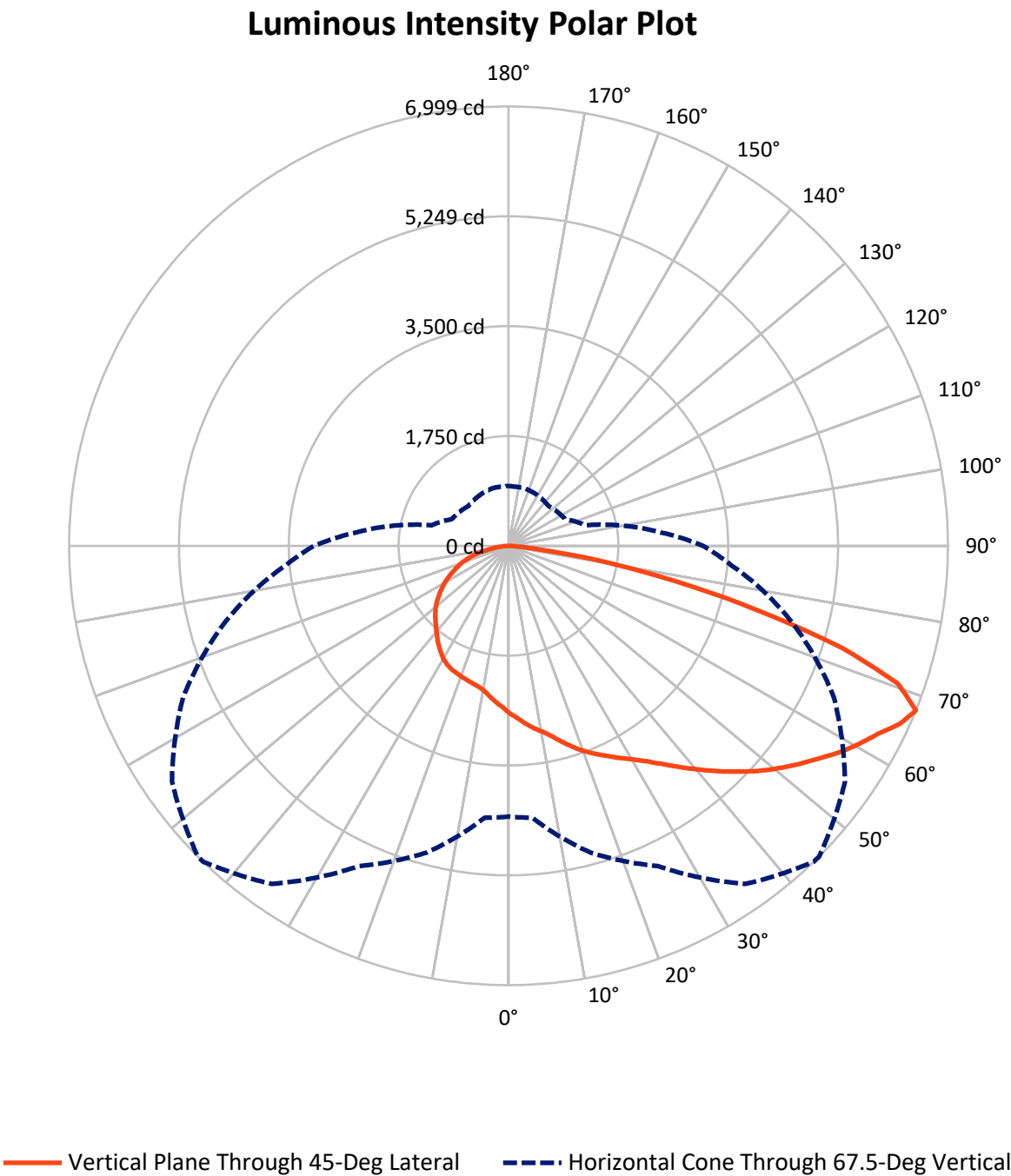
Iso-Footcandle Lines of Horizontal Illumination

✕ 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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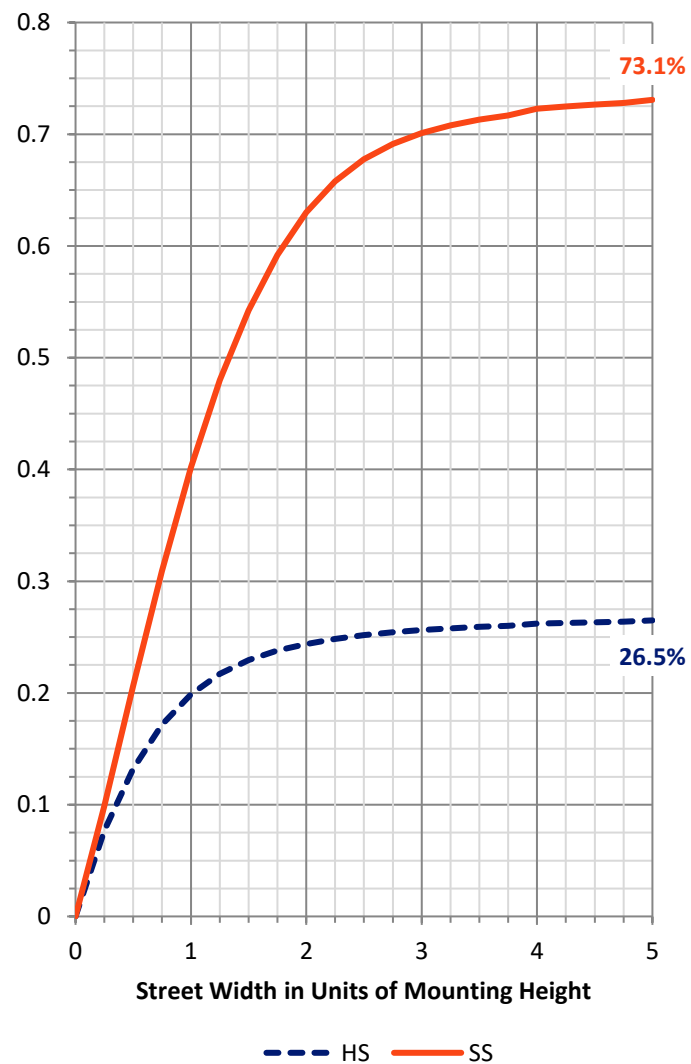
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4276.8	0.0	4276.8
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	11732.2	0.0	11732.2
	% Fixture	73.3	0.0	73.3
Total	Lumens	16009.0	0.0	16009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.6	1.6
10°-20°	789.7	4.9
20°-30°	1363.1	8.5
30°-40°	2010.1	12.6
40°-50°	2723.3	17.0
50°-60°	3328.5	20.8
60°-70°	3432.9	21.4
70°-80°	1880.3	11.7
80°-90°	225.4	1.4
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°	16009.0	100.0
0°-180°	16009.0	100.0

Coefficient of Utilization



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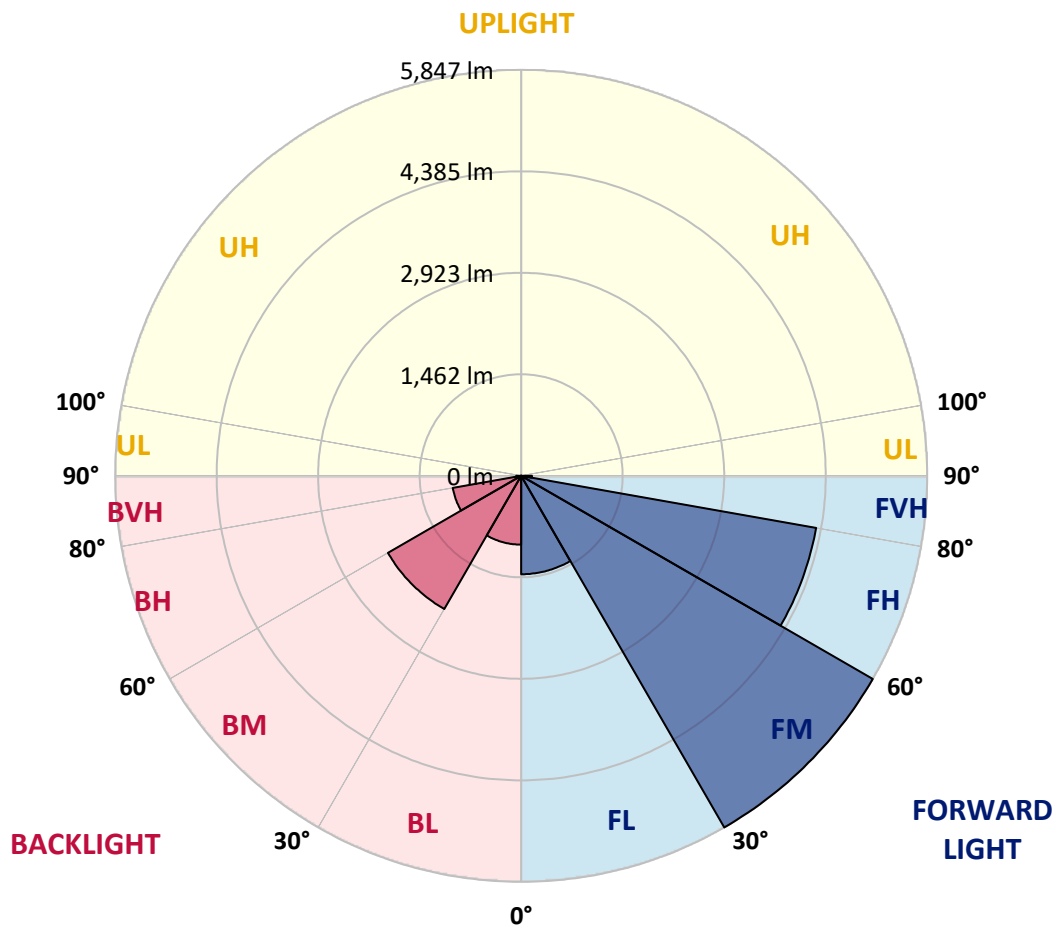
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1417.2	8.9			
FM	(30°-60°)	5846.6	36.5			
FH	(60°-80°)	4313.1	26.9			G2/5000
FVH	(80°-90°)	155.3	1.0			G2/225
BL	(0°-30°)	991.2	6.2	B2/1000		
BM	(30°-60°)	2215.3	13.8	B2/2500		
BH	(60°-80°)	1000.2	6.2	B3/2500		G3/2500
BVH	(80°-90°)	70.1	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2670.0	2670.0	2670.0	2670.0	2670.0	2670.0	2670.0	2670.0	2670.0	2670.0	2670.0
2.5°	2786.9	2784.5	2789.4	2772.3	2750.4	2748.0	2748.0	2733.3	2716.3	2682.2	2655.4
5°	2918.5	2913.6	2916.0	2891.7	2862.5	2847.8	2845.4	2813.7	2774.8	2721.2	2672.4
7.5°	3040.3	3035.4	3033.0	3006.2	2962.3	2938.0	2935.5	2889.2	2843.0	2760.1	2689.5
10°	3154.8	3149.9	3145.0	3108.5	3054.9	3018.4	3013.5	2955.0	2896.6	2794.2	2704.1
12.5°	3301.0	3291.2	3286.3	3242.5	3164.5	3125.6	3118.2	3040.3	2967.2	2843.0	2733.3
15°	3454.4	3447.1	3439.8	3398.4	3310.7	3259.5	3247.4	3149.9	3050.0	2906.3	2777.2
17.5°	3568.9	3561.6	3561.6	3525.1	3444.7	3386.2	3376.5	3259.5	3135.3	2964.8	2811.3
20°	3639.6	3632.3	3639.6	3617.7	3556.7	3508.0	3498.3	3369.2	3220.6	3018.4	2840.5
22.5°	3690.7	3683.4	3695.6	3685.9	3642.0	3612.8	3605.5	3478.8	3308.3	3074.4	2869.8
25°	3780.9	3780.9	3780.9	3763.8	3722.4	3712.7	3712.7	3603.0	3420.3	3147.5	2913.6
27.5°	3961.1	3951.4	3939.2	3890.5	3819.9	3817.4	3832.0	3729.7	3549.4	3242.5	2967.2
30°	4226.7	4221.8	4175.5	4073.2	3953.8	3941.7	3951.4	3866.1	3688.3	3342.4	3028.1
32.5°	4570.2	4553.1	4458.1	4304.6	4134.1	4078.1	4097.6	4007.4	3834.5	3444.7	3086.6
35°	4813.8	4818.7	4750.5	4611.6	4409.4	4260.8	4275.4	4165.8	3992.8	3559.2	3159.7
37.5°	5093.9	5111.0	5008.7	4903.9	4716.3	4463.0	4477.6	4329.0	4151.2	3702.9	3237.6
40°	5481.3	5447.2	5274.2	5150.0	4942.9	4674.9	4687.1	4511.7	4333.9	3839.3	3327.8
42.5°	5805.3	5744.4	5534.9	5376.5	5128.1	4899.1	4911.2	4709.0	4519.0	3990.4	3427.6
45°	6270.6	6102.5	5800.4	5722.5	5318.1	5118.3	5130.5	4918.5	4713.9	4151.2	3534.8
47.5°	6541.0	6273.0	6080.6	6039.2	5527.6	5344.9	5359.5	5140.2	4923.4	4333.9	3646.9
50°	6524.0	6351.0	6295.0	6192.6	5712.7	5556.8	5571.4	5369.2	5135.4	4514.1	3754.1
52.5°	6411.9	6443.6	6414.3	6243.8	5897.9	5761.4	5778.5	5595.8	5352.2	4682.2	3854.0
55°	6584.9	6606.8	6550.8	6326.6	6102.5	5966.1	5985.6	5834.5	5566.6	4830.8	3939.2
57.5°	6791.9	6714.0	6657.9	6472.8	6314.4	6187.8	6209.7	6078.1	5751.7	4950.2	4005.0
60°	6782.2	6619.0	6675.0	6482.5	6458.2	6392.4	6411.9	6277.9	5893.0	5037.9	4031.8
62.5°	6282.8	6195.1	6477.7	6411.9	6575.1	6575.1	6599.5	6399.7	5978.3	5074.5	4017.2
65°	5415.5	5420.4	5917.4	6190.2	6714.0	6826.0	6845.5	6475.2	5929.5	4967.3	3880.8
67.5°	4314.4	4346.1	5059.8	5627.5	6575.1	6996.6	6999.0	6543.4	5720.0	4665.2	3564.1
70°	3157.2	3181.6	4024.5	4713.9	5919.8	6619.0	6580.0	6351.0	5264.5	4139.0	3069.5
72.5°	2134.0	2156.0	3023.2	3620.1	4857.6	5637.2	5551.9	5612.8	4487.3	3400.8	2467.8
75°	1434.9	1461.7	2151.1	2589.6	3573.8	4280.3	4090.3	4251.0	3471.5	2575.0	1800.3
77.5°	903.8	920.9	1366.7	1698.0	2441.0	2913.6	2723.6	2726.0	2000.1	1386.2	967.1
80°	574.9	579.8	828.3	979.3	1413.0	1751.6	1549.4	1259.5	901.4	735.7	577.4
82.5°	333.7	326.4	494.5	553.0	672.4	665.1	550.6	521.3	394.7	367.9	294.8
85°	134.0	124.2	216.8	202.2	204.6	216.8	160.8	160.8	129.1	99.9	73.1
87.5°	26.8	26.8	29.2	26.8	26.8	29.2	21.9	21.9	19.5	19.5	19.5
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°	2670.0	2670.0	2670.0	2670.0	2670.0	2670.0	2670.0	2670.0	2670.0	2670.0	2670.0
2.5°	2650.5	2645.6	2633.5	2601.8	2584.7	2575.0	2560.4	2555.5	2553.1	2555.5	2562.8
5°	2657.8	2640.8	2606.7	2555.5	2521.4	2499.5	2475.1	2465.4	2458.1	2458.1	2465.4
7.5°	2662.7	2635.9	2577.4	2501.9	2453.2	2419.1	2389.8	2377.7	2375.2	2382.5	2385.0
10°	2665.1	2626.1	2543.3	2448.3	2385.0	2341.1	2311.9	2304.6	2311.9	2326.5	2328.9
12.5°	2682.2	2628.6	2523.8	2411.8	2336.2	2292.4	2270.5	2270.5	2290.0	2316.8	2319.2
15°	2711.4	2645.6	2514.1	2382.5	2304.6	2265.6	2258.3	2270.5	2299.7	2341.1	2346.0
17.5°	2733.3	2655.4	2492.2	2343.6	2263.2	2238.8	2251.0	2280.2	2321.6	2377.7	2382.5
20°	2748.0	2655.4	2460.5	2297.3	2221.7	2216.9	2251.0	2297.3	2341.1	2406.9	2414.2
22.5°	2762.6	2650.5	2423.9	2241.2	2175.5	2190.1	2253.4	2311.9	2355.7	2426.4	2438.6
25°	2789.4	2657.8	2387.4	2185.2	2126.7	2168.2	2251.0	2321.6	2367.9	2441.0	2460.5
27.5°	2825.9	2674.9	2360.6	2134.0	2078.0	2134.0	2233.9	2319.2	2367.9	2438.6	2460.5
30°	2864.9	2694.4	2328.9	2078.0	2022.0	2085.3	2197.4	2292.4	2348.4	2414.2	2441.0
32.5°	2906.3	2716.3	2302.1	2017.1	1953.8	2019.6	2143.8	2251.0	2311.9	2372.8	2402.0
35°	2962.3	2755.3	2287.5	1968.4	1892.9	1951.3	2075.6	2197.4	2263.2	2319.2	2353.3
37.5°	3030.5	2804.0	2280.2	1919.7	1827.1	1875.8	2002.5	2131.6	2202.3	2248.5	2280.2
40°	3108.5	2864.9	2277.8	1873.4	1761.3	1797.9	1927.0	2056.1	2124.3	2160.8	2187.6
42.5°	3196.2	2933.1	2272.9	1827.1	1695.5	1724.8	1853.9	1980.6	2039.0	2070.7	2095.1
45°	3288.8	3001.3	2263.2	1771.1	1624.9	1659.0	1778.4	1890.4	1951.3	1978.1	2004.9
47.5°	3381.3	3069.5	2243.7	1707.7	1561.6	1593.2	1698.0	1795.4	1844.1	1868.5	1895.3
50°	3471.5	3130.4	2197.4	1634.6	1495.8	1525.0	1605.4	1671.2	1707.7	1727.2	1754.0
52.5°	3551.9	3171.8	2131.6	1549.4	1430.0	1444.6	1498.2	1554.3	1583.5	1585.9	1610.3
55°	3620.1	3193.8	2036.6	1461.7	1359.4	1361.8	1391.0	1434.9	1447.1	1437.3	1454.4
57.5°	3659.1	3181.6	1931.9	1371.5	1286.3	1276.5	1298.5	1320.4	1322.8	1298.5	1315.5
60°	3668.8	3125.6	1795.4	1281.4	1213.2	1186.4	1193.7	1188.8	1184.0	1174.2	1188.8
62.5°	3620.1	3006.2	1644.4	1193.7	1135.2	1093.8	1091.4	1088.9	1096.3	1098.7	1101.1
65°	3442.3	2782.1	1464.1	1103.6	1052.4	996.4	993.9	1023.2	1032.9	1018.3	1023.2
67.5°	3098.8	2438.6	1266.8	998.8	947.7	898.9	918.4	935.5	952.5	947.7	952.5
70°	2611.5	2002.5	1086.5	881.9	833.2	806.4	828.3	842.9	845.3	840.5	845.3
72.5°	2053.7	1564.0	918.4	762.5	718.7	706.5	733.3	745.5	767.4	777.1	779.6
75°	1483.6	1154.7	752.8	633.4	596.9	596.9	621.2	643.1	662.6	650.4	643.1
77.5°	828.3	689.4	540.8	436.1	443.4	477.5	487.2	511.6	531.1	528.6	523.8
80°	501.8	431.2	365.4	282.6	280.2	307.0	370.3	411.7	421.5	399.5	397.1
82.5°	260.7	226.6	194.9	158.3	175.4	204.6	214.4	258.2	285.0	275.3	287.5
85°	65.8	63.3	70.6	73.1	90.1	99.9	109.6	129.1	85.3	41.4	41.4
87.5°	19.5	19.5	24.4	24.4	31.7	39.0	36.5	36.5	19.5	2.4	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)