

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: P799433

Luminaire Tested: **ARCH2-110-750-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799433
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-750-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13258 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 109.5
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



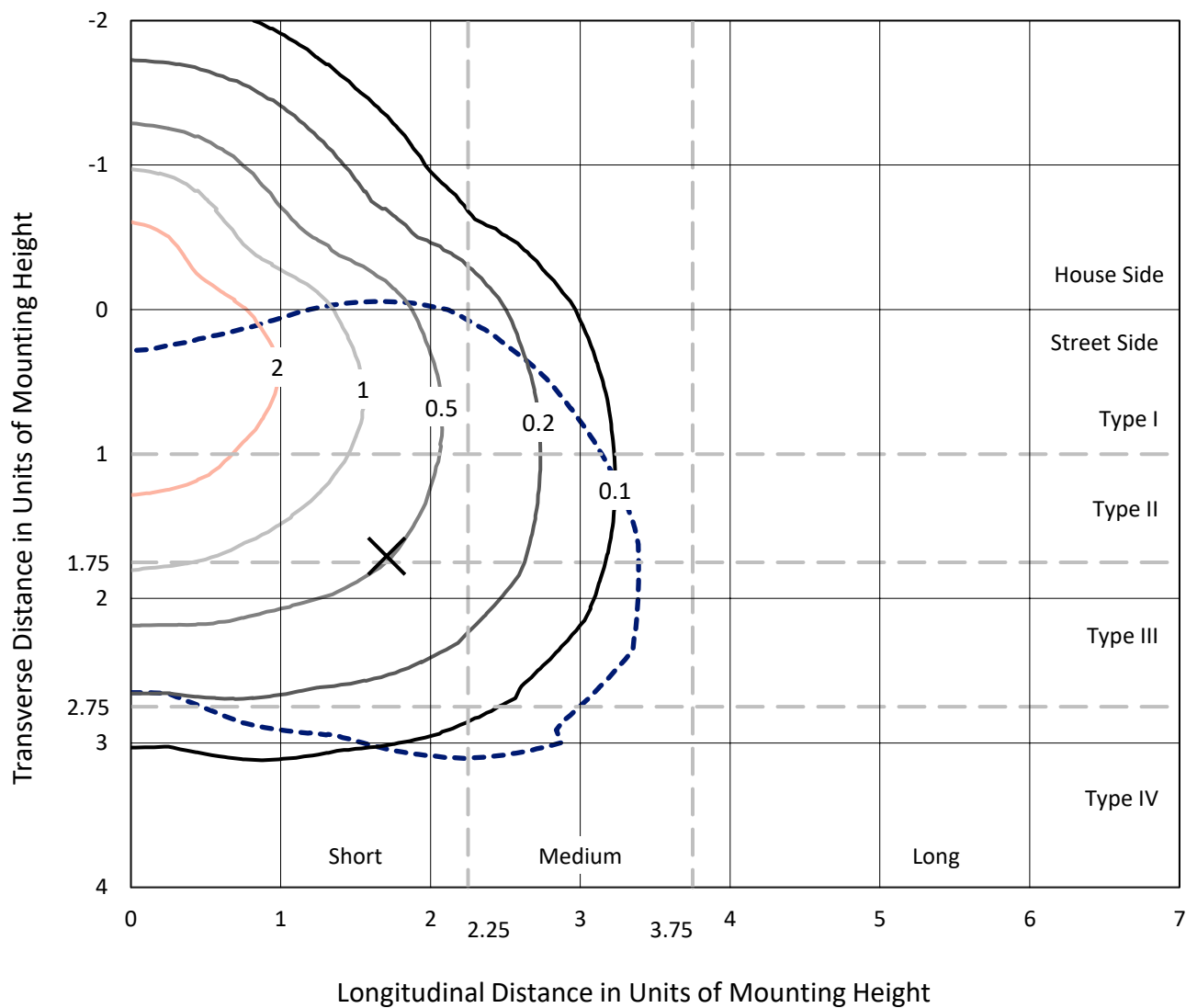
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

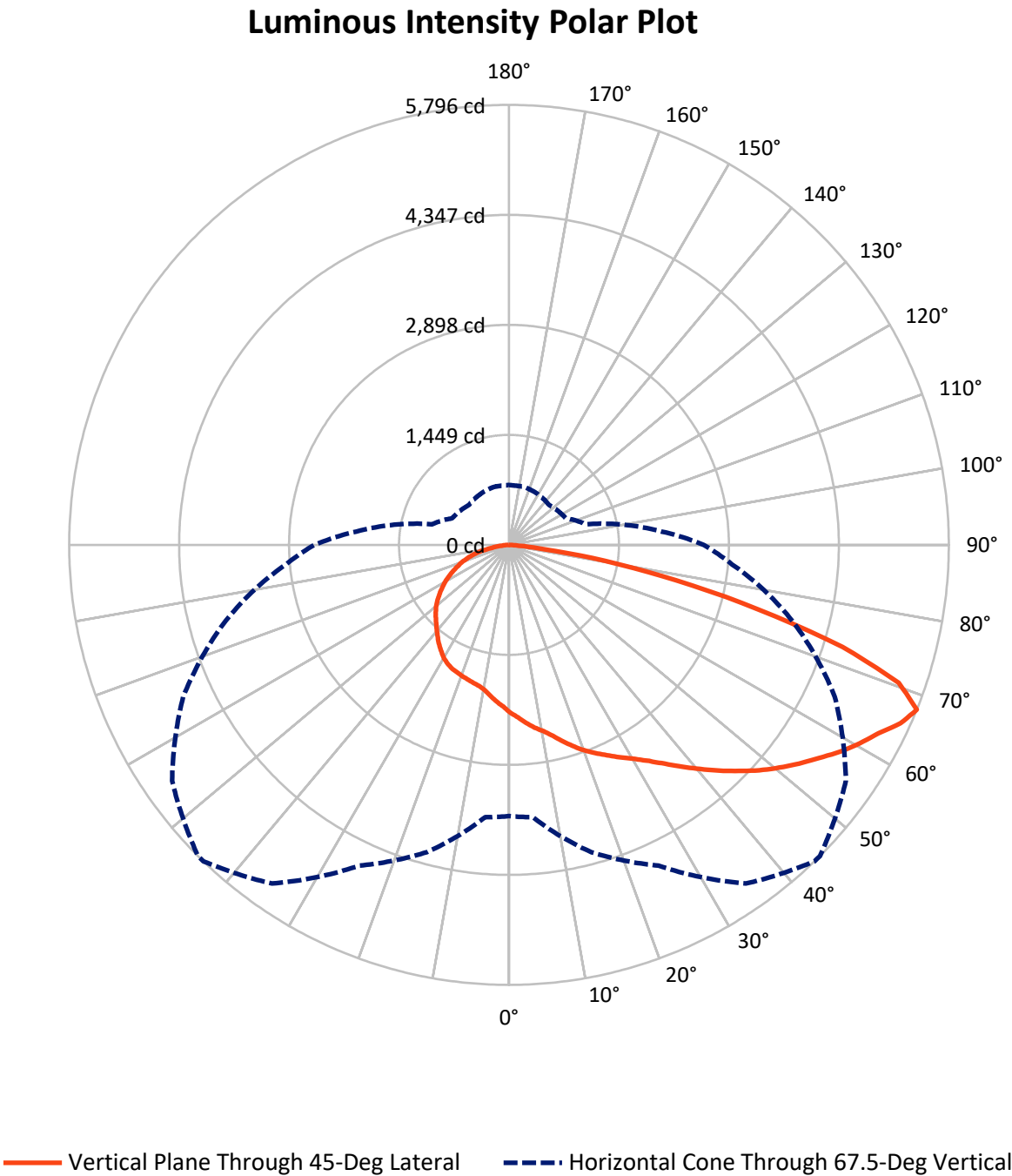
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc

Type IV - Short - N/A

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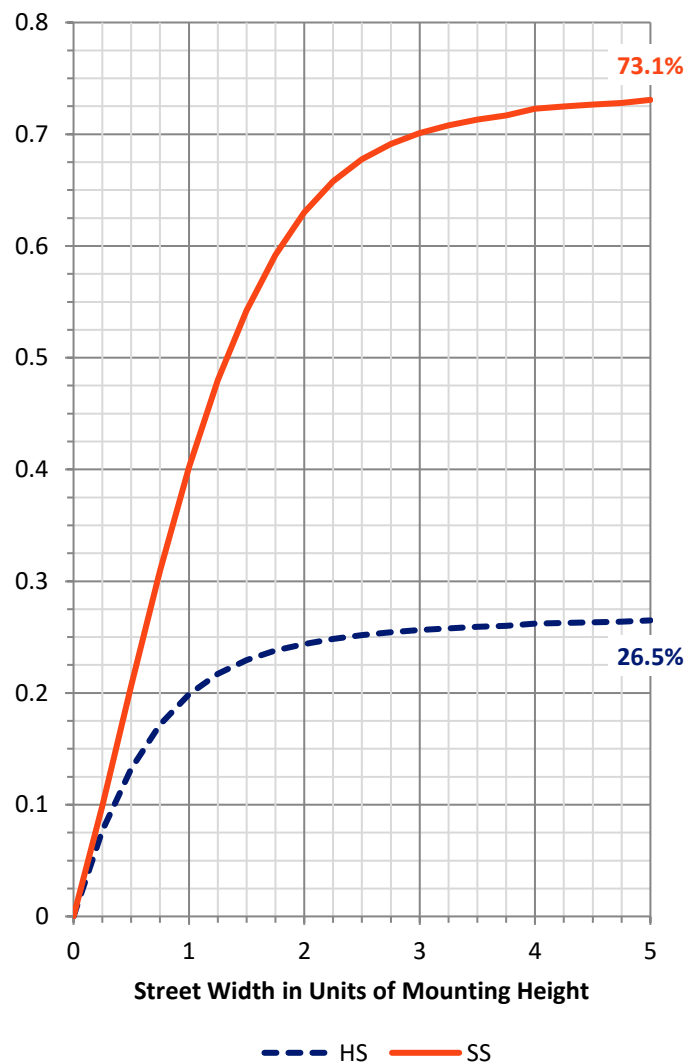
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3541.9	0.0	3541.9
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	9716.1	0.0	9716.1
	% Fixture	73.3	0.0	73.3
Total	Lumens	13258.0	0.0	13258.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	1.6
10°-20°	654.0	4.9
20°-30°	1128.9	8.5
30°-40°	1664.7	12.6
40°-50°	2255.3	17.0
50°-60°	2756.6	20.8
60°-70°	2843.0	21.4
70°-80°	1557.2	11.7
80°-90°	186.6	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°	13258.0	100.0
0°-180°	13258.0	100.0

Coefficient of Utilization



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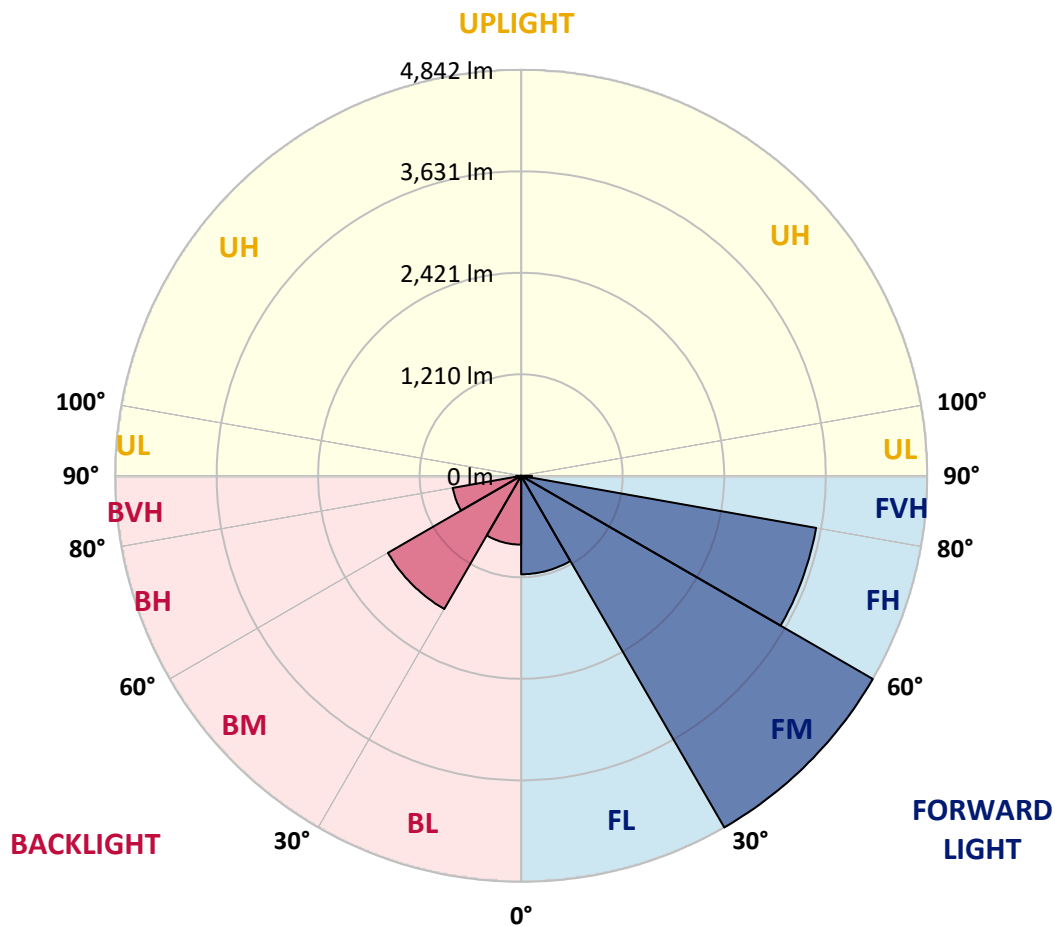
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1173.7	8.9			
FM	(30°-60°)	4841.9	36.5			
FH	(60°-80°)	3571.9	26.9			G2/5000
FVH	(80°-90°)	128.6	1.0			G2/225
BL	(0°-30°)	820.9	6.2	B2/1000		
BM	(30°-60°)	1834.6	13.8	B2/2500		
BH	(60°-80°)	828.3	6.2	B2/1000		G2/1000
BVH	(80°-90°)	58.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2
2.5°	2308.0	2306.0	2310.0	2295.9	2277.8	2275.7	2275.7	2263.6	2249.5	2221.3	2199.1
5°	2417.0	2412.9	2415.0	2394.8	2370.6	2358.5	2356.4	2330.2	2297.9	2253.6	2213.2
7.5°	2517.8	2513.8	2511.8	2489.6	2453.3	2433.1	2431.1	2392.8	2354.4	2285.8	2227.3
10°	2612.7	2608.6	2604.6	2574.3	2529.9	2499.7	2495.7	2447.2	2398.8	2314.1	2239.4
12.5°	2733.7	2725.6	2721.6	2685.3	2620.7	2588.5	2582.4	2517.8	2457.3	2354.4	2263.6
15°	2860.8	2854.8	2848.7	2814.4	2741.8	2699.4	2689.3	2608.6	2525.9	2406.9	2300.0
17.5°	2955.6	2949.6	2949.6	2919.3	2852.7	2804.3	2796.3	2699.4	2596.5	2455.3	2328.2
20°	3014.1	3008.1	3014.1	2996.0	2945.6	2905.2	2897.1	2790.2	2667.1	2499.7	2352.4
22.5°	3056.5	3050.5	3060.6	3052.5	3016.2	2992.0	2985.9	2881.0	2739.8	2546.1	2376.6
25°	3131.2	3131.2	3131.2	3117.0	3082.7	3074.7	3074.7	2983.9	2832.6	2606.6	2412.9
27.5°	3280.5	3272.4	3262.3	3222.0	3163.4	3161.4	3173.5	3088.8	2939.5	2685.3	2457.3
30°	3500.4	3496.3	3458.0	3373.3	3274.4	3264.3	3272.4	3201.8	3054.5	2768.0	2507.8
32.5°	3784.8	3770.7	3692.0	3564.9	3423.7	3377.3	3393.4	3318.8	3175.5	2852.7	2556.2
35°	3986.6	3990.6	3934.1	3819.1	3651.7	3528.6	3540.7	3449.9	3306.7	2947.6	2616.7
37.5°	4218.6	4232.7	4148.0	4061.2	3905.9	3696.1	3708.2	3585.1	3437.8	3066.6	2681.3
40°	4539.4	4511.1	4367.9	4265.0	4093.5	3871.6	3881.7	3736.4	3589.1	3179.6	2755.9
42.5°	4807.7	4757.3	4583.8	4452.6	4246.8	4057.2	4067.3	3899.8	3742.5	3304.7	2838.6
45°	5193.1	5053.8	4803.7	4739.1	4404.2	4238.8	4248.9	4073.3	3903.9	3437.8	2927.4
47.5°	5417.0	5195.1	5035.7	5001.4	4577.7	4426.4	4438.5	4256.9	4077.4	3589.1	3020.2
50°	5402.9	5259.6	5213.2	5128.5	4731.0	4601.9	4614.0	4446.6	4252.9	3738.4	3109.0
52.5°	5310.1	5336.3	5312.1	5170.9	4884.4	4771.4	4785.5	4634.2	4432.5	3877.6	3191.7
55°	5453.3	5471.5	5425.1	5239.5	5053.8	4940.9	4957.0	4831.9	4610.0	4000.7	3262.3
57.5°	5624.8	5560.2	5513.8	5360.5	5229.4	5124.5	5142.6	5033.7	4763.3	4099.6	3316.8
60°	5616.7	5481.6	5528.0	5368.6	5348.4	5293.9	5310.1	5199.1	4880.3	4172.2	3339.0
62.5°	5203.1	5130.5	5364.5	5310.1	5445.2	5445.2	5465.4	5300.0	4951.0	4202.5	3326.9
65°	4484.9	4488.9	4900.5	5126.5	5560.2	5653.0	5669.2	5362.5	4910.6	4113.7	3213.9
67.5°	3573.0	3599.2	4190.4	4660.4	5445.2	5794.3	5796.3	5419.0	4737.1	3863.5	2951.6
70°	2614.7	2634.9	3332.9	3903.9	4902.5	5481.6	5449.3	5259.6	4359.8	3427.7	2542.1
72.5°	1767.3	1785.5	2503.7	2998.0	4022.9	4668.5	4597.9	4648.3	3716.2	2816.4	2043.7
75°	1188.3	1210.5	1781.5	2144.6	2959.7	3544.8	3387.4	3520.5	2874.9	2132.5	1490.9
77.5°	748.5	762.6	1131.8	1406.2	2021.5	2412.9	2255.6	2257.6	1656.4	1148.0	800.9
80°	476.1	480.2	686.0	811.0	1170.2	1450.6	1283.1	1043.0	746.5	609.3	478.1
82.5°	276.4	270.3	409.6	458.0	556.8	550.8	456.0	431.7	326.8	304.6	244.1
85°	111.0	102.9	179.6	167.5	169.5	179.6	133.2	133.2	106.9	82.7	60.5
87.5°	22.2	22.2	24.2	22.2	22.2	24.2	18.2	18.2	16.1	16.1	16.1
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°	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2	2211.2
2.5°	2195.0	2191.0	2180.9	2154.7	2140.6	2132.5	2120.4	2116.4	2114.3	2116.4	2122.4
5°	2201.1	2187.0	2158.7	2116.4	2088.1	2070.0	2049.8	2041.7	2035.7	2035.7	2041.7
7.5°	2205.1	2182.9	2134.5	2072.0	2031.6	2003.4	1979.2	1969.1	1967.1	1973.1	1975.1
10°	2207.1	2174.9	2106.3	2027.6	1975.1	1938.8	1914.6	1908.6	1914.6	1926.7	1928.7
12.5°	2221.3	2176.9	2090.1	1997.3	1934.8	1898.5	1880.3	1880.3	1896.5	1918.6	1920.7
15°	2245.5	2191.0	2082.1	1973.1	1908.6	1876.3	1870.2	1880.3	1904.5	1938.8	1942.9
17.5°	2263.6	2199.1	2063.9	1940.8	1874.3	1854.1	1864.2	1888.4	1922.7	1969.1	1973.1
20°	2275.7	2199.1	2037.7	1902.5	1840.0	1835.9	1864.2	1902.5	1938.8	1993.3	1999.3
22.5°	2287.8	2195.0	2007.4	1856.1	1801.6	1813.7	1866.2	1914.6	1950.9	2009.4	2019.5
25°	2310.0	2201.1	1977.2	1809.7	1761.3	1795.6	1864.2	1922.7	1961.0	2021.5	2037.7
27.5°	2340.3	2215.2	1955.0	1767.3	1720.9	1767.3	1850.0	1920.7	1961.0	2019.5	2037.7
30°	2372.6	2231.4	1928.7	1720.9	1674.5	1727.0	1819.8	1898.5	1944.9	1999.3	2021.5
32.5°	2406.9	2249.5	1906.5	1670.5	1618.0	1672.5	1775.4	1864.2	1914.6	1965.0	1989.3
35°	2453.3	2281.8	1894.4	1630.1	1567.6	1616.0	1718.9	1819.8	1874.3	1920.7	1948.9
37.5°	2509.8	2322.1	1888.4	1589.8	1513.1	1553.5	1658.4	1765.3	1823.8	1862.2	1888.4
40°	2574.3	2372.6	1886.4	1551.5	1458.7	1488.9	1595.8	1702.8	1759.3	1789.5	1811.7
42.5°	2647.0	2429.1	1882.3	1513.1	1404.2	1428.4	1535.3	1640.2	1688.6	1714.9	1735.1
45°	2723.6	2485.6	1874.3	1466.7	1345.7	1373.9	1472.8	1565.6	1616.0	1638.2	1660.4
47.5°	2800.3	2542.1	1858.1	1414.3	1293.2	1319.4	1406.2	1486.9	1527.2	1547.4	1569.6
50°	2874.9	2592.5	1819.8	1353.7	1238.7	1263.0	1329.5	1384.0	1414.3	1430.4	1452.6
52.5°	2941.5	2626.8	1765.3	1283.1	1184.3	1196.4	1240.8	1287.2	1311.4	1313.4	1333.6
55°	2998.0	2644.9	1686.6	1210.5	1125.8	1127.8	1152.0	1188.3	1198.4	1190.3	1204.4
57.5°	3030.3	2634.9	1599.9	1135.9	1065.2	1057.2	1075.3	1093.5	1095.5	1075.3	1089.5
60°	3038.4	2588.5	1486.9	1061.2	1004.7	982.5	988.6	984.5	980.5	972.4	984.5
62.5°	2998.0	2489.6	1361.8	988.6	940.2	905.9	903.8	901.8	907.9	909.9	911.9
65°	2850.7	2304.0	1212.5	913.9	871.6	825.2	823.1	847.4	855.4	843.3	847.4
67.5°	2566.3	2019.5	1049.1	827.2	784.8	744.5	760.6	774.7	788.8	784.8	788.8
70°	2162.8	1658.4	899.8	730.3	690.0	667.8	686.0	698.1	700.1	696.0	700.1
72.5°	1700.8	1295.2	760.6	631.5	595.2	585.1	607.3	617.4	635.5	643.6	645.6
75°	1228.7	956.3	623.4	524.6	494.3	494.3	514.5	532.6	548.8	538.7	532.6
77.5°	686.0	571.0	447.9	361.1	367.2	395.4	403.5	423.7	439.8	437.8	433.8
80°	415.6	357.1	302.6	234.0	232.0	254.2	306.7	341.0	349.0	330.9	328.9
82.5°	215.9	187.6	161.4	131.1	145.3	169.5	177.5	213.9	236.0	228.0	238.1
85°	54.5	52.5	58.5	60.5	74.6	82.7	90.8	106.9	70.6	34.3	34.3
87.5°	16.1	16.1	20.2	20.2	26.2	32.3	30.3	30.3	16.1	2.0	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)