

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: P799385

Luminaire Tested: **ARCH2-110-730-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799385
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: ARCH2-110-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12626 lumens
Efficiency: N/A
Efficacy: 115.3 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

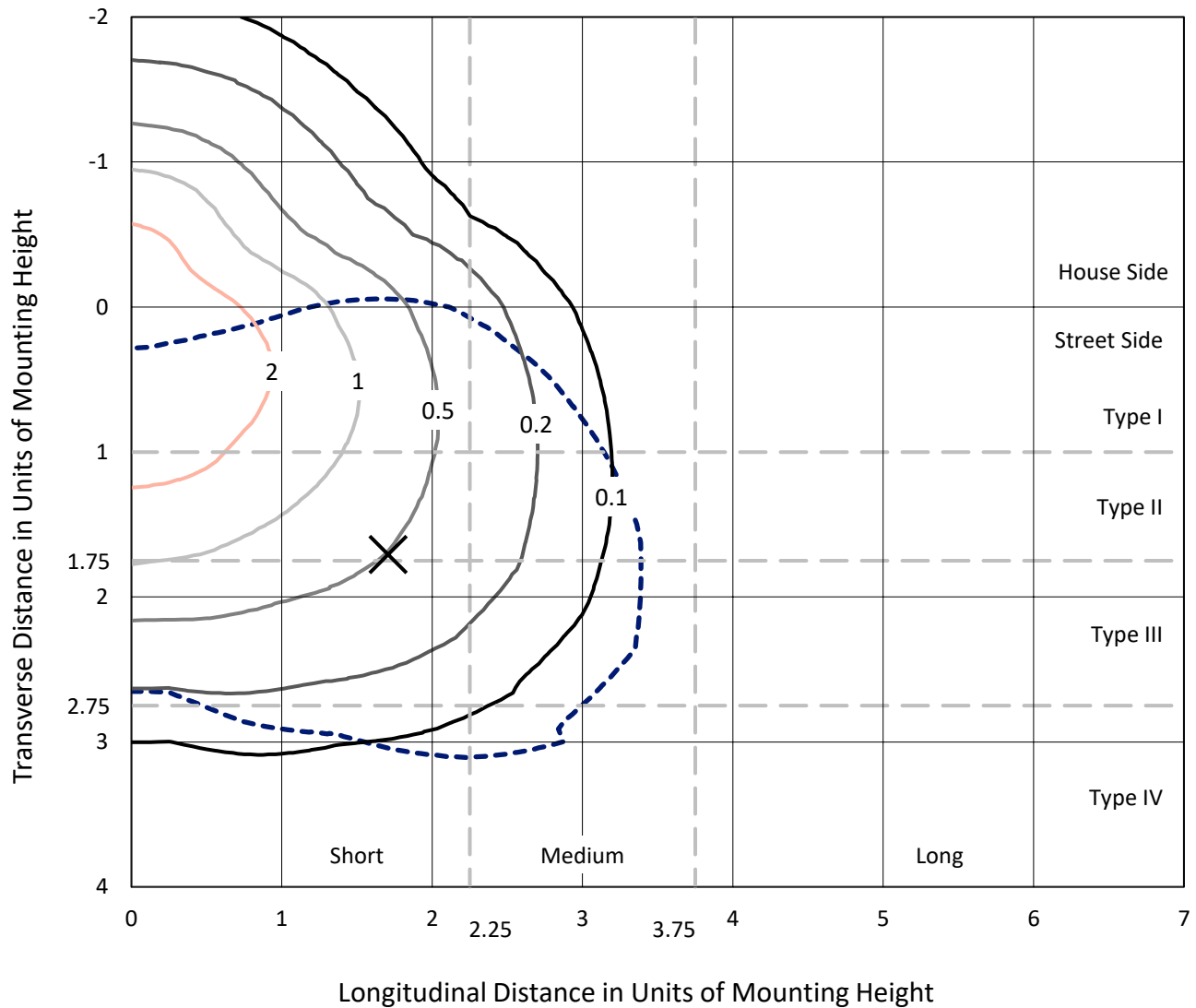


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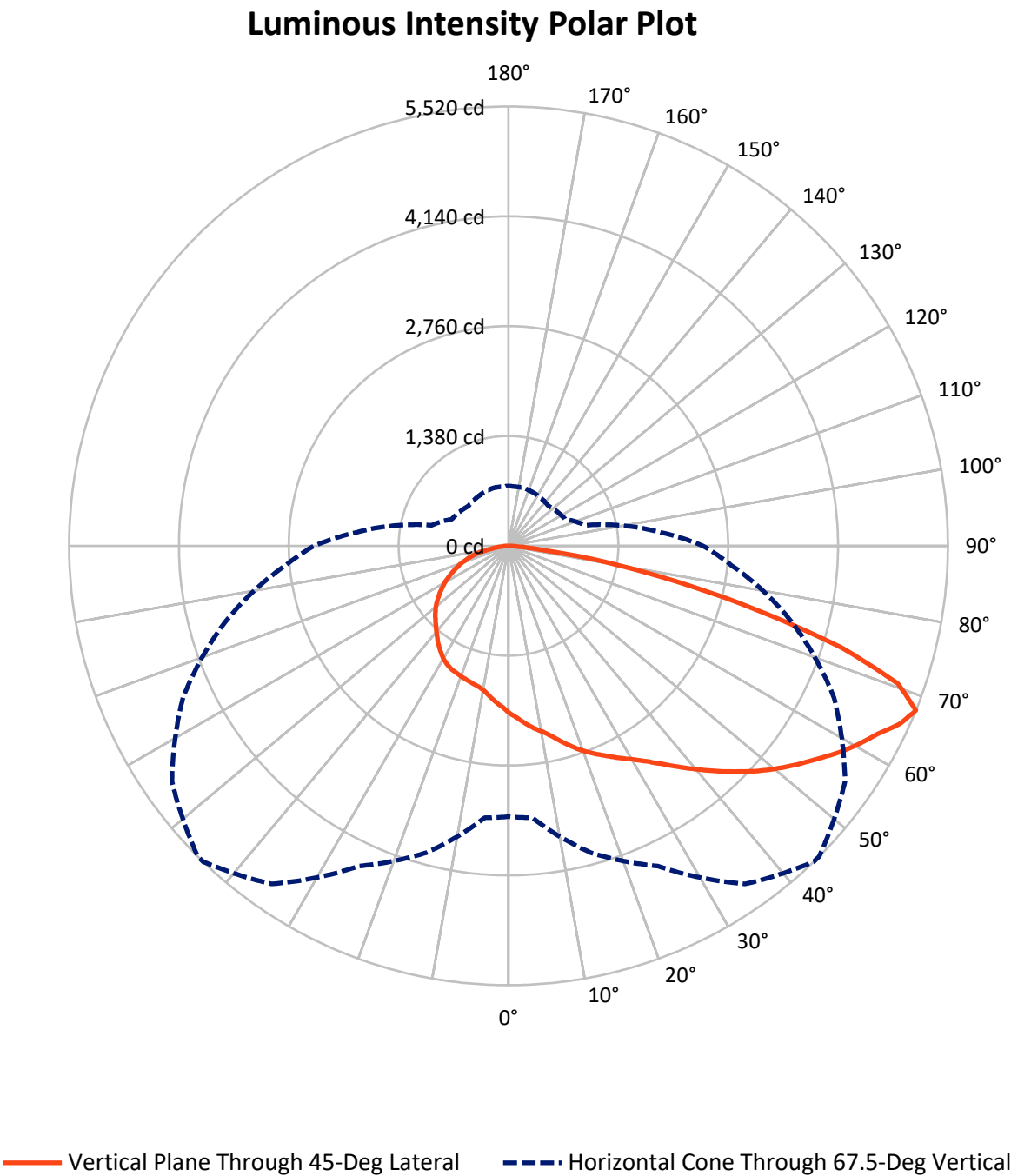
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type IV - Short - N/A

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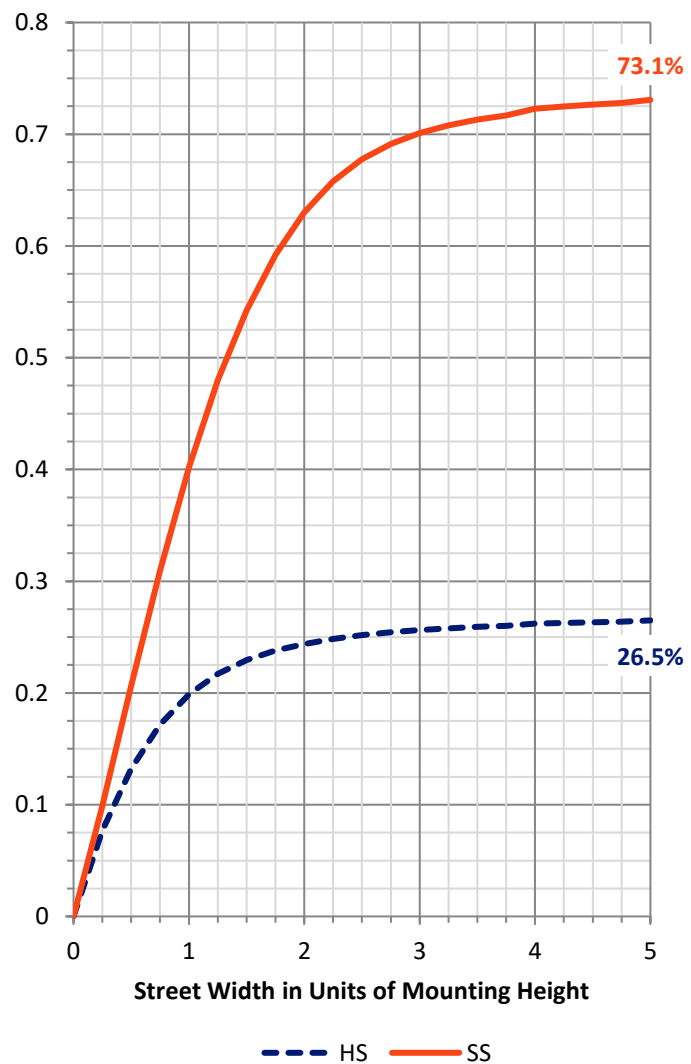
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3373.0	0.0	3373.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	9253.0	0.0	9253.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	12626.0	0.0	12626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.6	1.6
10°-20°	622.8	4.9
20°-30°	1075.1	8.5
30°-40°	1585.3	12.6
40°-50°	2147.8	17.0
50°-60°	2625.2	20.8
60°-70°	2707.5	21.4
70°-80°	1483.0	11.7
80°-90°	177.7	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°	12626.0	100.0
0°-180°	12626.0	100.0

Coefficient of Utilization



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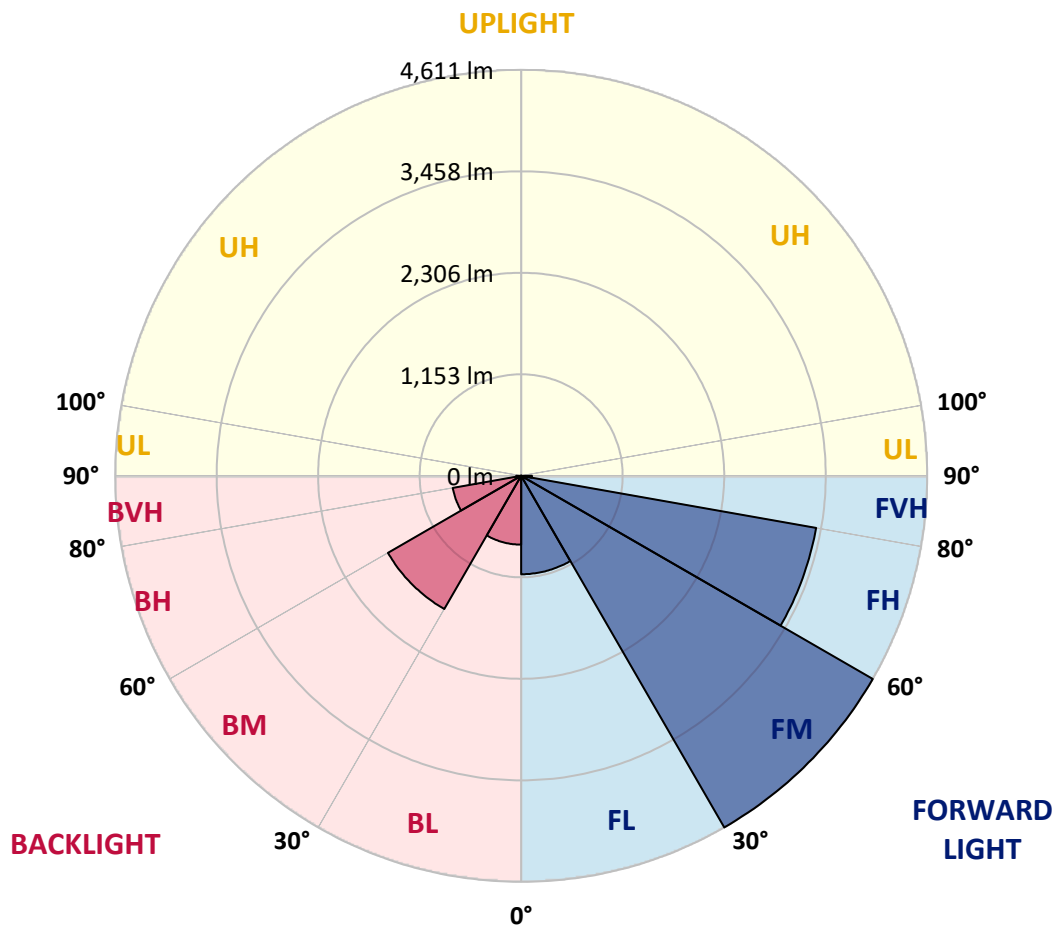
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1117.7	8.9			
FM	(30°-60°)	4611.1	36.5			
FH	(60°-80°)	3401.6	26.9			G2/5000
FVH	(80°-90°)	122.4	1.0			G2/225
BL	(0°-30°)	781.8	6.2	B2/1000		
BM	(30°-60°)	1747.2	13.8	B2/2500		
BH	(60°-80°)	788.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	55.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8
2.5°	2198.0	2196.1	2199.9	2186.5	2169.2	2167.3	2167.3	2155.7	2142.3	2115.4	2094.2
5°	2301.8	2297.9	2299.8	2280.6	2257.6	2246.0	2244.1	2219.1	2188.4	2146.1	2107.7
7.5°	2397.8	2394.0	2392.1	2370.9	2336.3	2317.1	2315.2	2278.7	2242.2	2176.9	2121.1
10°	2488.1	2484.3	2480.4	2451.6	2409.3	2380.5	2376.7	2330.6	2284.5	2203.8	2132.7
12.5°	2603.4	2595.7	2591.9	2557.3	2495.8	2465.1	2459.3	2397.8	2340.2	2242.2	2155.7
15°	2724.4	2718.7	2712.9	2680.3	2611.1	2570.7	2561.1	2484.3	2405.5	2292.1	2190.3
17.5°	2814.7	2809.0	2809.0	2780.2	2716.8	2670.6	2663.0	2570.7	2472.8	2338.3	2217.2
20°	2870.5	2864.7	2870.5	2853.2	2805.1	2766.7	2759.0	2657.2	2540.0	2380.5	2240.3
22.5°	2910.8	2905.1	2914.7	2907.0	2872.4	2849.3	2843.6	2743.7	2609.2	2424.7	2263.3
25°	2981.9	2981.9	2981.9	2968.5	2935.8	2928.1	2928.1	2841.6	2697.5	2482.4	2297.9
27.5°	3124.1	3116.4	3106.8	3068.4	3012.6	3010.7	3022.3	2941.6	2799.4	2557.3	2340.2
30°	3333.5	3329.7	3293.2	3212.5	3118.3	3108.7	3116.4	3049.2	2908.9	2636.1	2388.2
32.5°	3604.4	3591.0	3516.0	3395.0	3260.5	3216.3	3231.7	3160.6	3024.2	2716.8	2434.3
35°	3796.5	3800.4	3746.6	3637.1	3477.6	3360.4	3371.9	3285.5	3149.1	2807.1	2492.0
37.5°	4017.5	4030.9	3950.3	3867.6	3719.7	3519.9	3531.4	3414.2	3273.9	2920.4	2553.4
40°	4323.0	4296.1	4159.7	4061.7	3898.4	3687.0	3696.6	3558.3	3418.0	3028.0	2624.5
42.5°	4578.5	4530.5	4365.3	4240.4	4044.4	3863.8	3873.4	3713.9	3564.1	3147.1	2703.3
45°	4945.5	4812.9	4574.7	4513.2	4194.3	4036.7	4046.3	3879.2	3717.8	3273.9	2787.8
47.5°	5158.8	4947.4	4795.6	4763.0	4359.5	4215.4	4226.9	4054.0	3883.0	3418.0	2876.2
50°	5145.3	5008.9	4964.7	4884.0	4505.5	4382.6	4394.1	4234.6	4050.2	3560.2	2960.8
52.5°	5056.9	5081.9	5058.9	4924.4	4651.5	4543.9	4557.4	4413.3	4221.2	3692.8	3039.5
55°	5193.4	5210.6	5166.5	4989.7	4812.9	4705.3	4720.7	4601.6	4390.2	3810.0	3106.8
57.5°	5356.7	5295.2	5251.0	5105.0	4980.1	4880.2	4897.5	4793.7	4536.3	3904.1	3158.7
60°	5349.0	5220.3	5264.4	5112.7	5093.4	5041.6	5056.9	4951.3	4647.7	3973.3	3179.8
62.5°	4955.1	4885.9	5108.8	5056.9	5185.7	5185.7	5204.9	5047.3	4714.9	4002.1	3168.3
65°	4271.1	4275.0	4666.9	4882.1	5295.2	5383.6	5398.9	5106.9	4676.5	3917.6	3060.7
67.5°	3402.7	3427.7	3990.6	4438.3	5185.7	5518.1	5520.0	5160.7	4511.3	3679.3	2810.9
70°	2490.0	2509.3	3174.0	3717.8	4668.8	5220.3	5189.5	5008.9	4152.0	3264.3	2420.9
72.5°	1683.1	1700.4	2384.4	2855.1	3831.1	4446.0	4378.7	4426.7	3539.1	2682.2	1946.3
75°	1131.7	1152.8	1696.5	2042.4	2818.6	3375.8	3225.9	3352.7	2737.9	2030.8	1419.9
77.5°	712.8	726.3	1077.9	1339.2	1925.2	2297.9	2148.0	2150.0	1577.4	1093.2	762.8
80°	453.4	457.3	653.3	772.4	1114.4	1381.4	1222.0	993.3	710.9	580.2	455.4
82.5°	263.2	257.5	390.0	436.1	530.3	524.5	434.2	411.2	311.3	290.1	232.5
85°	105.7	98.0	171.0	159.5	161.4	171.0	126.8	126.8	101.8	78.8	57.6
87.5°	21.1	21.1	23.1	21.1	21.1	23.1	17.3	17.3	15.4	15.4	15.4
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°	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8	2105.8
2.5°	2090.4	2086.6	2077.0	2052.0	2038.5	2030.8	2019.3	2015.5	2013.6	2015.5	2021.2
5°	2096.2	2082.7	2055.8	2015.5	1988.6	1971.3	1952.1	1944.4	1938.6	1938.6	1944.4
7.5°	2100.0	2078.9	2032.8	1973.2	1934.8	1907.9	1884.8	1875.2	1873.3	1879.1	1881.0
10°	2101.9	2071.2	2005.9	1930.9	1881.0	1846.4	1823.3	1817.6	1823.3	1834.9	1836.8
12.5°	2115.4	2073.1	1990.5	1902.1	1842.6	1808.0	1790.7	1790.7	1806.0	1827.2	1829.1
15°	2138.4	2086.6	1982.8	1879.1	1817.6	1786.8	1781.1	1790.7	1813.7	1846.4	1850.2
17.5°	2155.7	2094.2	1965.5	1848.3	1784.9	1765.7	1775.3	1798.4	1831.0	1875.2	1879.1
20°	2167.3	2094.2	1940.5	1811.8	1752.3	1748.4	1775.3	1811.8	1846.4	1898.3	1904.0
22.5°	2178.8	2090.4	1911.7	1767.6	1715.7	1727.3	1777.2	1823.3	1857.9	1913.6	1923.3
25°	2199.9	2096.2	1882.9	1723.4	1677.3	1710.0	1775.3	1831.0	1867.5	1925.2	1940.5
27.5°	2228.7	2109.6	1861.8	1683.1	1638.9	1683.1	1761.9	1829.1	1867.5	1923.3	1940.5
30°	2259.5	2125.0	1836.8	1638.9	1594.7	1644.7	1733.0	1808.0	1852.2	1904.0	1925.2
32.5°	2292.1	2142.3	1815.7	1590.9	1540.9	1592.8	1690.8	1775.3	1823.3	1871.4	1894.4
35°	2336.3	2173.0	1804.1	1552.4	1492.9	1539.0	1637.0	1733.0	1784.9	1829.1	1856.0
37.5°	2390.1	2211.5	1798.4	1514.0	1441.0	1479.4	1579.3	1681.2	1736.9	1773.4	1798.4
40°	2451.6	2259.5	1796.4	1477.5	1389.1	1417.9	1519.8	1621.6	1675.4	1704.2	1725.4
42.5°	2520.8	2313.3	1792.6	1441.0	1337.2	1360.3	1462.1	1562.0	1608.2	1633.1	1652.3
45°	2593.8	2367.1	1784.9	1396.8	1281.5	1308.4	1402.6	1491.0	1539.0	1560.1	1581.3
47.5°	2666.8	2420.9	1769.5	1346.9	1231.6	1256.5	1339.2	1416.0	1454.4	1473.7	1494.8
50°	2737.9	2468.9	1733.0	1289.2	1179.7	1202.8	1266.2	1318.0	1346.9	1362.2	1383.4
52.5°	2801.3	2501.6	1681.2	1222.0	1127.8	1139.3	1181.6	1225.8	1248.9	1250.8	1270.0
55°	2855.1	2518.9	1606.2	1152.8	1072.1	1074.0	1097.1	1131.7	1141.3	1133.6	1147.0
57.5°	2885.8	2509.3	1523.6	1081.7	1014.5	1006.8	1024.1	1041.4	1043.3	1024.1	1037.5
60°	2893.5	2465.1	1416.0	1010.6	956.8	935.7	941.5	937.6	933.8	926.1	937.6
62.5°	2855.1	2370.9	1296.9	941.5	895.3	862.7	860.8	858.8	864.6	866.5	868.4
65°	2714.8	2194.2	1154.7	870.4	830.0	785.8	783.9	807.0	814.6	803.1	807.0
67.5°	2443.9	1923.3	999.1	787.7	747.4	709.0	724.3	737.8	751.2	747.4	751.2
70°	2059.7	1579.3	856.9	695.5	657.1	636.0	653.3	664.8	666.7	662.9	666.7
72.5°	1619.7	1233.5	724.3	601.4	566.8	557.2	578.3	587.9	605.2	612.9	614.8
75°	1170.1	910.7	593.7	499.5	470.7	470.7	489.9	507.2	522.6	513.0	507.2
77.5°	653.3	543.7	426.5	343.9	349.7	376.6	384.3	403.5	418.8	416.9	413.1
80°	395.8	340.1	288.2	222.9	221.0	242.1	292.0	324.7	332.4	315.1	313.2
82.5°	205.6	178.7	153.7	124.9	138.3	161.4	169.1	203.7	224.8	217.1	226.7
85°	51.9	50.0	55.7	57.6	71.1	78.8	86.5	101.8	67.2	32.7	32.7
87.5°	15.4	15.4	19.2	19.2	25.0	30.7	28.8	28.8	15.4	1.9	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)