

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: P799289

Luminaire Tested: **ARCH2-100-740-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799289
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: ARCH2-100-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12798 lumens
Efficiency: N/A
Efficacy: 123.9 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): 103.3
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

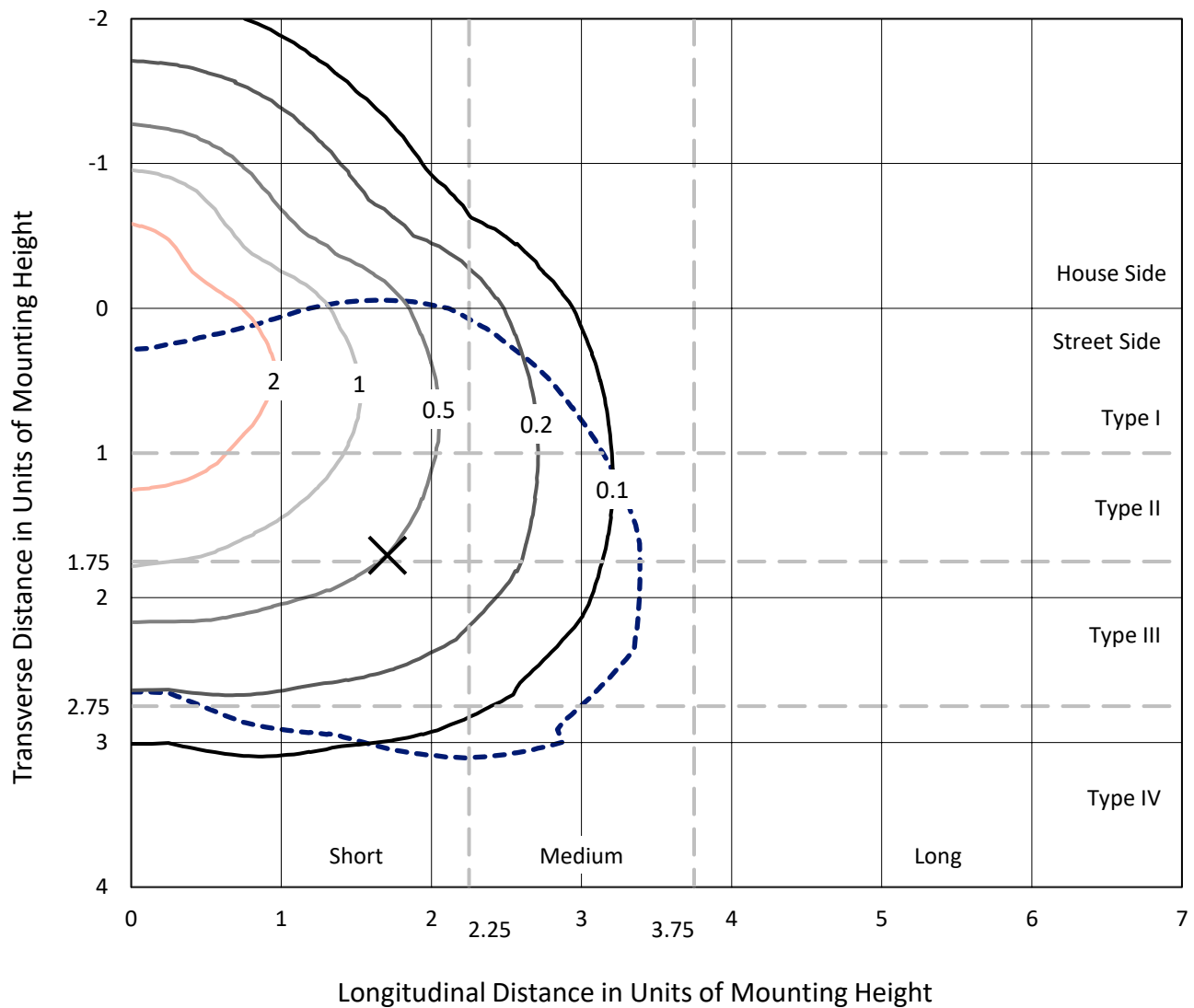


REPORT NUMBER: P799289

CATALOG NUMBER: ARCH2-100-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

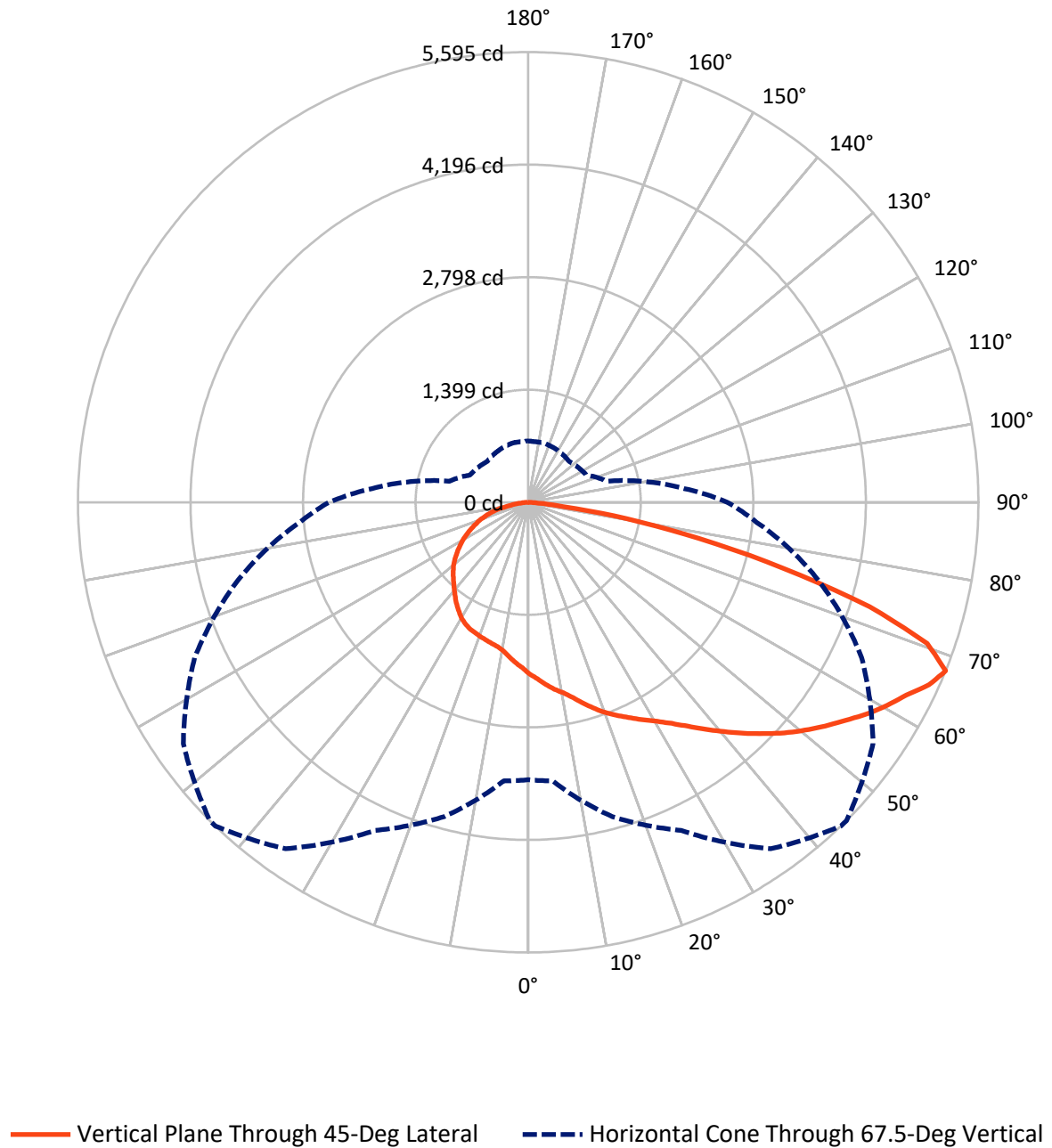


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type IV - Short - N/A

REPORT NUMBER: P799289

CATALOG NUMBER: ARCH2-100-740-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P799289

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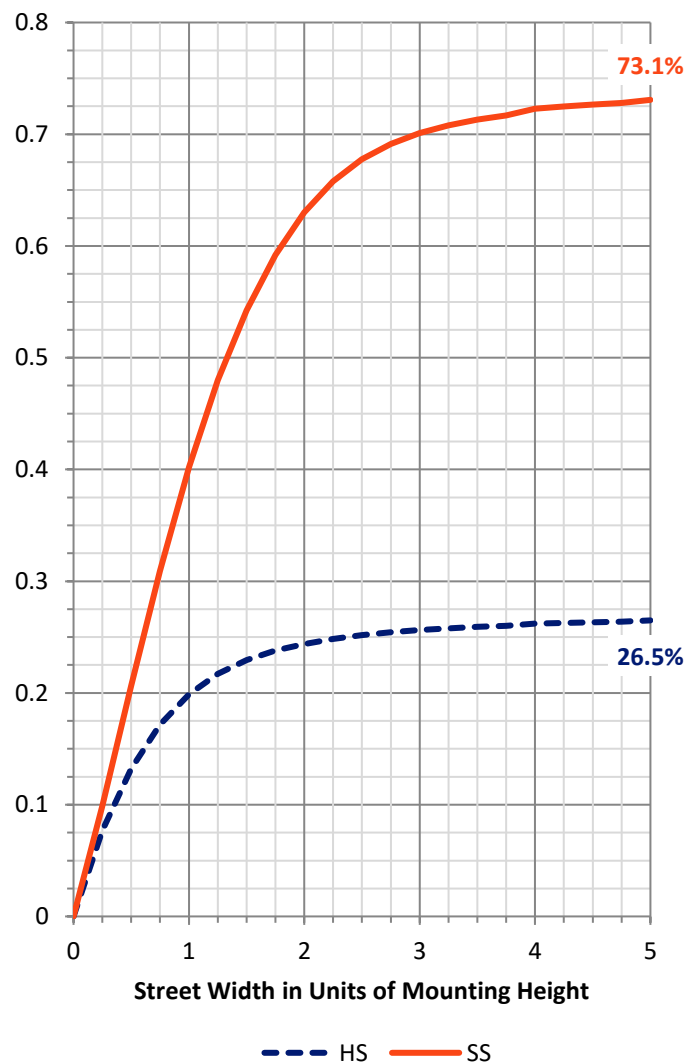
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3419.0	0.0	3419.0
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	9379.0	0.0	9379.0
	% Fixture	73.3	0.0	73.3
Total	Lumens	12798.0	0.0	12798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	1.6
10°-20°	631.3	4.9
20°-30°	1089.7	8.5
30°-40°	1606.9	12.6
40°-50°	2177.1	17.0
50°-60°	2660.9	20.8
60°-70°	2744.4	21.4
70°-80°	1503.2	11.7
80°-90°	180.2	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°	12798.0	100.0
0°-180°	12798.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799289

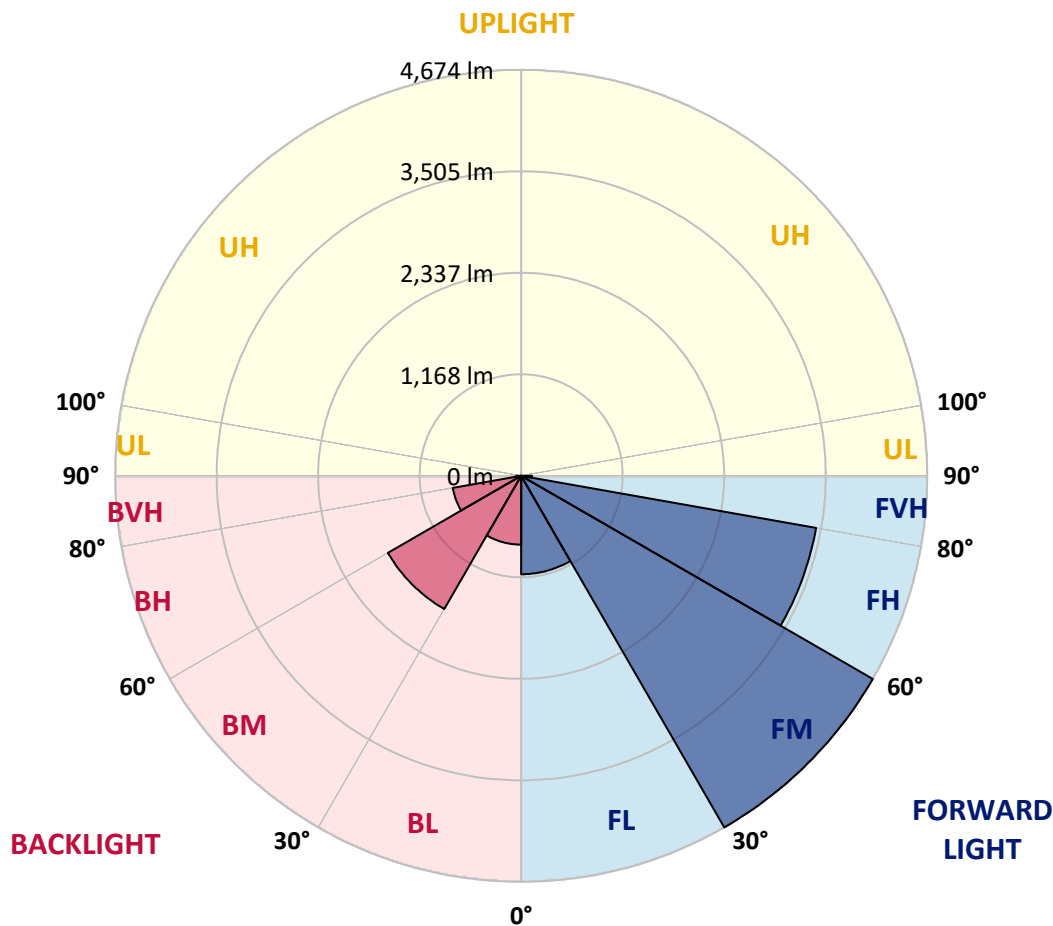
CATALOG NUMBER: ARCH2-100-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1133.0	8.9			
FM	(30°-60°)	4673.9	36.5			
FH	(60°-80°)	3448.0	26.9			G2/5000
FVH	(80°-90°)	124.1	1.0			G2/225
BL	(0°-30°)	792.4	6.2	B2/1000		
BM	(30°-60°)	1771.0	13.8	B2/2500		
BH	(60°-80°)	799.6	6.2	B2/1000		G2/1000
BVH	(80°-90°)	56.1	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



REPORT NUMBER: P799289

CATALOG NUMBER: ARCH2-100-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5
2.5°	2227.9	2226.0	2229.9	2216.3	2198.7	2196.8	2196.8	2185.1	2171.5	2144.2	2122.8
5°	2333.1	2329.2	2331.2	2311.7	2288.3	2276.6	2274.7	2249.4	2218.2	2175.4	2136.4
7.5°	2430.5	2426.6	2424.6	2403.2	2368.2	2348.7	2346.7	2309.7	2272.7	2206.5	2150.0
10°	2522.0	2518.1	2514.2	2485.0	2442.2	2413.0	2409.1	2362.3	2315.6	2233.8	2161.7
12.5°	2638.9	2631.1	2627.2	2592.1	2529.8	2498.6	2492.8	2430.5	2372.1	2272.7	2185.1
15°	2761.6	2755.7	2749.9	2716.8	2646.7	2605.8	2596.0	2518.1	2438.3	2323.4	2220.2
17.5°	2853.1	2847.2	2847.2	2818.0	2753.8	2707.0	2699.2	2605.8	2506.4	2370.1	2247.4
20°	2909.6	2903.7	2909.6	2892.0	2843.4	2804.4	2796.6	2693.4	2574.6	2413.0	2270.8
22.5°	2950.5	2944.6	2954.4	2946.6	2911.5	2888.1	2882.3	2781.0	2644.7	2457.7	2294.2
25°	3022.5	3022.5	3022.5	3008.9	2975.8	2968.0	2968.0	2880.4	2734.3	2516.2	2329.2
27.5°	3166.6	3158.9	3149.1	3110.2	3053.7	3051.7	3063.4	2981.6	2837.5	2592.1	2372.1
30°	3378.9	3375.0	3338.0	3256.2	3160.8	3151.1	3158.9	3090.7	2948.5	2672.0	2420.7
32.5°	3653.5	3639.9	3563.9	3441.2	3304.9	3260.1	3275.7	3203.6	3065.4	2753.8	2467.5
35°	3848.3	3852.2	3797.6	3686.6	3525.0	3406.2	3417.9	3330.2	3192.0	2845.3	2525.9
37.5°	4072.2	4085.9	4004.1	3920.3	3770.4	3567.8	3579.5	3460.7	3318.5	2960.2	2588.2
40°	4381.9	4354.6	4216.3	4117.0	3951.5	3737.3	3747.0	3606.8	3464.6	3069.3	2660.3
42.5°	4640.9	4592.2	4424.7	4298.1	4099.5	3916.4	3926.2	3764.5	3612.6	3190.0	2740.1
45°	5012.9	4878.5	4637.0	4574.7	4251.4	4091.7	4101.4	3932.0	3768.4	3318.5	2825.8
47.5°	5229.0	5014.8	4861.0	4827.9	4418.9	4272.8	4284.5	4109.2	3935.9	3464.6	2915.4
50°	5215.4	5077.1	5032.3	4950.6	4566.9	4442.3	4453.9	4292.3	4105.3	3608.7	3001.1
52.5°	5125.8	5151.1	5127.8	4991.5	4714.9	4605.8	4619.5	4473.4	4278.7	3743.1	3081.0
55°	5264.1	5281.6	5236.8	5057.7	4878.5	4769.4	4785.0	4664.3	4450.0	3861.9	3149.1
57.5°	5429.6	5367.3	5322.5	5174.5	5047.9	4946.7	4964.2	4859.0	4598.1	3957.3	3201.7
60°	5421.8	5291.4	5336.2	5182.3	5162.8	5110.2	5125.8	5018.7	4711.0	4027.4	3223.1
62.5°	5022.6	4952.5	5178.4	5125.8	5256.3	5256.3	5275.8	5116.1	4779.2	4056.6	3211.4
65°	4329.3	4333.2	4730.5	4948.6	5367.3	5456.9	5472.5	5176.5	4740.2	3971.0	3102.4
67.5°	3449.0	3474.3	4045.0	4498.7	5256.3	5593.2	5595.2	5231.0	4572.7	3729.5	2849.2
70°	2524.0	2543.4	3217.3	3768.4	4732.4	5291.4	5260.2	5077.1	4208.6	3308.8	2453.9
72.5°	1706.0	1723.5	2416.9	2894.0	3883.3	4506.5	4438.4	4487.0	3587.3	2718.7	1972.8
75°	1147.1	1168.5	1719.6	2070.2	2857.0	3421.8	3269.9	3398.4	2775.2	2058.5	1439.2
77.5°	722.5	736.2	1092.5	1357.4	1951.4	2329.2	2177.3	2179.3	1598.9	1108.1	773.2
80°	459.6	463.5	662.2	782.9	1129.6	1400.3	1238.6	1006.9	720.6	588.1	461.6
82.5°	266.8	261.0	395.3	442.1	537.5	531.7	440.1	416.8	315.5	294.1	235.6
85°	107.1	99.3	173.3	161.6	163.6	173.3	128.5	128.5	103.2	79.8	58.4
87.5°	21.4	21.4	23.4	21.4	21.4	23.4	17.5	17.5	15.6	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P799289

CATALOG NUMBER: ARCH2-100-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5	2134.5
2.5°	2118.9	2115.0	2105.3	2079.9	2066.3	2058.5	2046.8	2042.9	2041.0	2042.9	2048.8
5°	2124.7	2111.1	2083.8	2042.9	2015.7	1998.1	1978.7	1970.9	1965.0	1965.0	1970.9
7.5°	2128.6	2107.2	2060.5	2000.1	1961.1	1933.9	1910.5	1900.8	1898.8	1904.7	1906.6
10°	2130.6	2099.4	2033.2	1957.2	1906.6	1871.6	1848.2	1842.3	1848.2	1859.9	1861.8
12.5°	2144.2	2101.4	2017.6	1928.0	1867.7	1832.6	1815.1	1815.1	1830.7	1852.1	1854.0
15°	2167.6	2115.0	2009.8	1904.7	1842.3	1811.2	1805.3	1815.1	1838.4	1871.6	1875.4
17.5°	2185.1	2122.8	1992.3	1873.5	1809.2	1789.8	1799.5	1822.9	1856.0	1900.8	1904.7
20°	2196.8	2122.8	1967.0	1836.5	1776.1	1772.2	1799.5	1836.5	1871.6	1924.1	1930.0
22.5°	2208.5	2118.9	1937.8	1791.7	1739.1	1750.8	1801.4	1848.2	1883.2	1939.7	1949.5
25°	2229.9	2124.7	1908.6	1746.9	1700.2	1733.3	1799.5	1856.0	1893.0	1951.4	1967.0
27.5°	2259.1	2138.4	1887.1	1706.0	1661.2	1706.0	1785.9	1854.0	1893.0	1949.5	1967.0
30°	2290.3	2153.9	1861.8	1661.2	1616.4	1667.1	1756.6	1832.6	1877.4	1930.0	1951.4
32.5°	2323.4	2171.5	1840.4	1612.5	1561.9	1614.5	1713.8	1799.5	1848.2	1896.9	1920.2
35°	2368.2	2202.6	1828.7	1573.6	1513.2	1560.0	1659.3	1756.6	1809.2	1854.0	1881.3
37.5°	2422.7	2241.6	1822.9	1534.6	1460.6	1499.6	1600.8	1704.1	1760.5	1797.5	1822.9
40°	2485.0	2290.3	1820.9	1497.6	1408.0	1437.3	1540.5	1643.7	1698.2	1727.4	1748.9
42.5°	2555.1	2344.8	1817.0	1460.6	1355.5	1378.8	1482.1	1583.3	1630.1	1655.4	1674.9
45°	2629.1	2399.3	1809.2	1415.8	1299.0	1326.2	1421.7	1511.3	1560.0	1581.4	1602.8
47.5°	2703.1	2453.9	1793.7	1365.2	1248.3	1273.7	1357.4	1435.3	1474.3	1493.7	1515.2
50°	2775.2	2502.5	1756.6	1306.8	1195.8	1219.1	1283.4	1336.0	1365.2	1380.8	1402.2
52.5°	2839.5	2535.6	1704.1	1238.6	1143.2	1154.9	1197.7	1242.5	1265.9	1267.8	1287.3
55°	2894.0	2553.2	1628.1	1168.5	1086.7	1088.7	1112.0	1147.1	1156.8	1149.0	1162.7
57.5°	2925.2	2543.4	1544.4	1096.4	1028.3	1020.5	1038.0	1055.5	1057.5	1038.0	1051.7
60°	2932.9	2498.6	1435.3	1024.4	969.9	948.4	954.3	950.4	946.5	938.7	950.4
62.5°	2894.0	2403.2	1314.6	954.3	907.5	874.4	872.5	870.5	876.4	878.3	880.3
65°	2751.8	2224.0	1170.4	882.2	841.3	796.5	794.6	818.0	825.7	814.1	818.0
67.5°	2477.2	1949.5	1012.7	798.5	757.6	718.6	734.2	747.8	761.5	757.6	761.5
70°	2087.7	1600.8	868.6	705.0	666.0	644.6	662.2	673.8	675.8	671.9	675.8
72.5°	1641.7	1250.3	734.2	609.6	574.5	564.8	586.2	595.9	613.5	621.3	623.2
75°	1186.0	923.1	601.8	506.4	477.1	477.1	496.6	514.1	529.7	520.0	514.1
77.5°	662.2	551.1	432.3	348.6	354.4	381.7	389.5	409.0	424.6	422.6	418.7
80°	401.2	344.7	292.1	225.9	224.0	245.4	296.0	329.1	336.9	319.4	317.4
82.5°	208.4	181.1	155.8	126.6	140.2	163.6	171.4	206.4	227.9	220.1	229.8
85°	52.6	50.6	56.5	58.4	72.1	79.8	87.6	103.2	68.2	33.1	33.1
87.5°	15.6	15.6	19.5	19.5	25.3	31.2	29.2	29.2	15.6	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)