

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: P800281

Luminaire Tested: **ARCH2-90-730-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800281
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: ARCH2-90-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 695mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11441 lumens
Efficiency: N/A
Efficacy: 122.1 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): 93.7
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



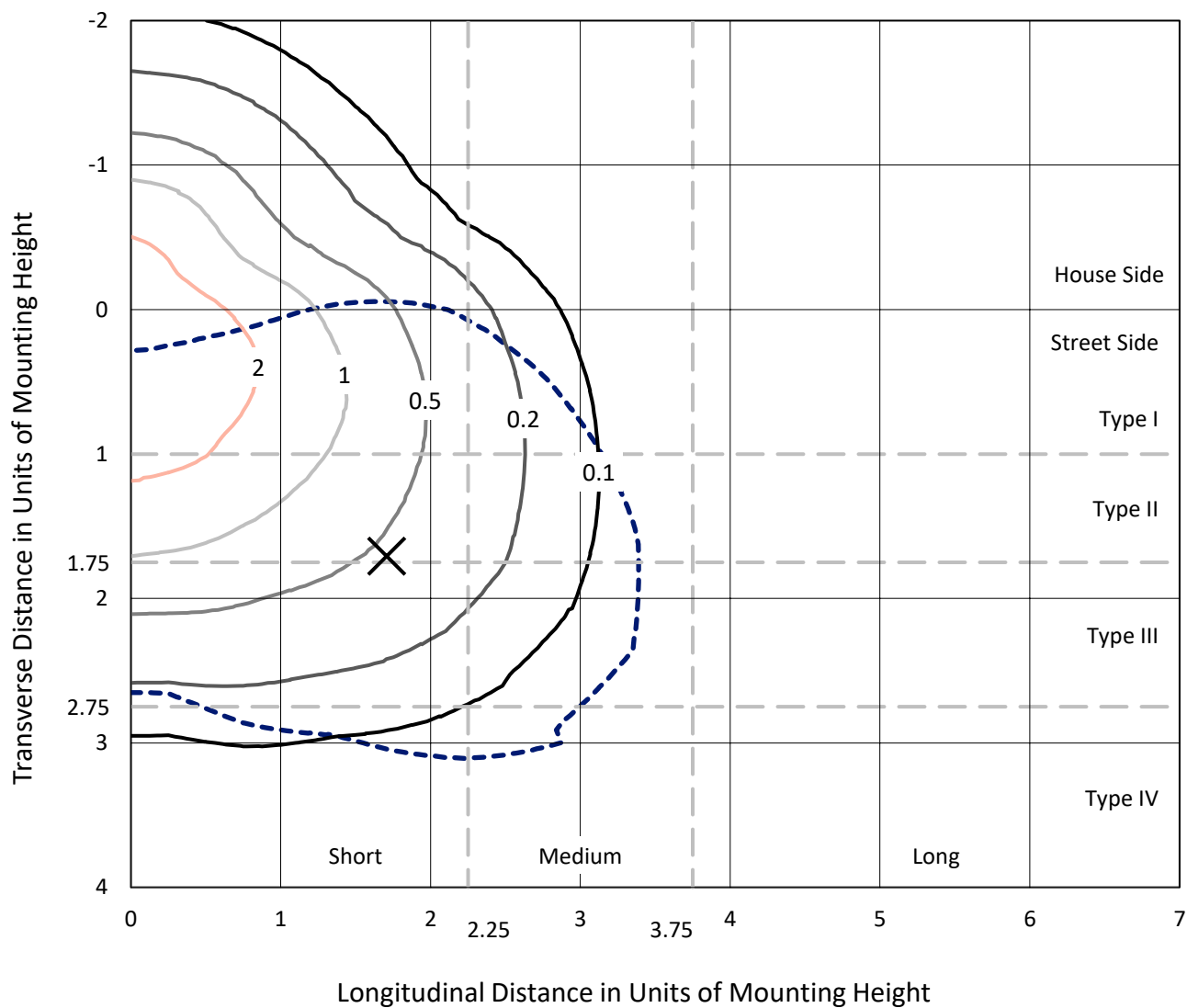
REPORT NUMBER: P800281

CATALOG NUMBER: ARCH2-90-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

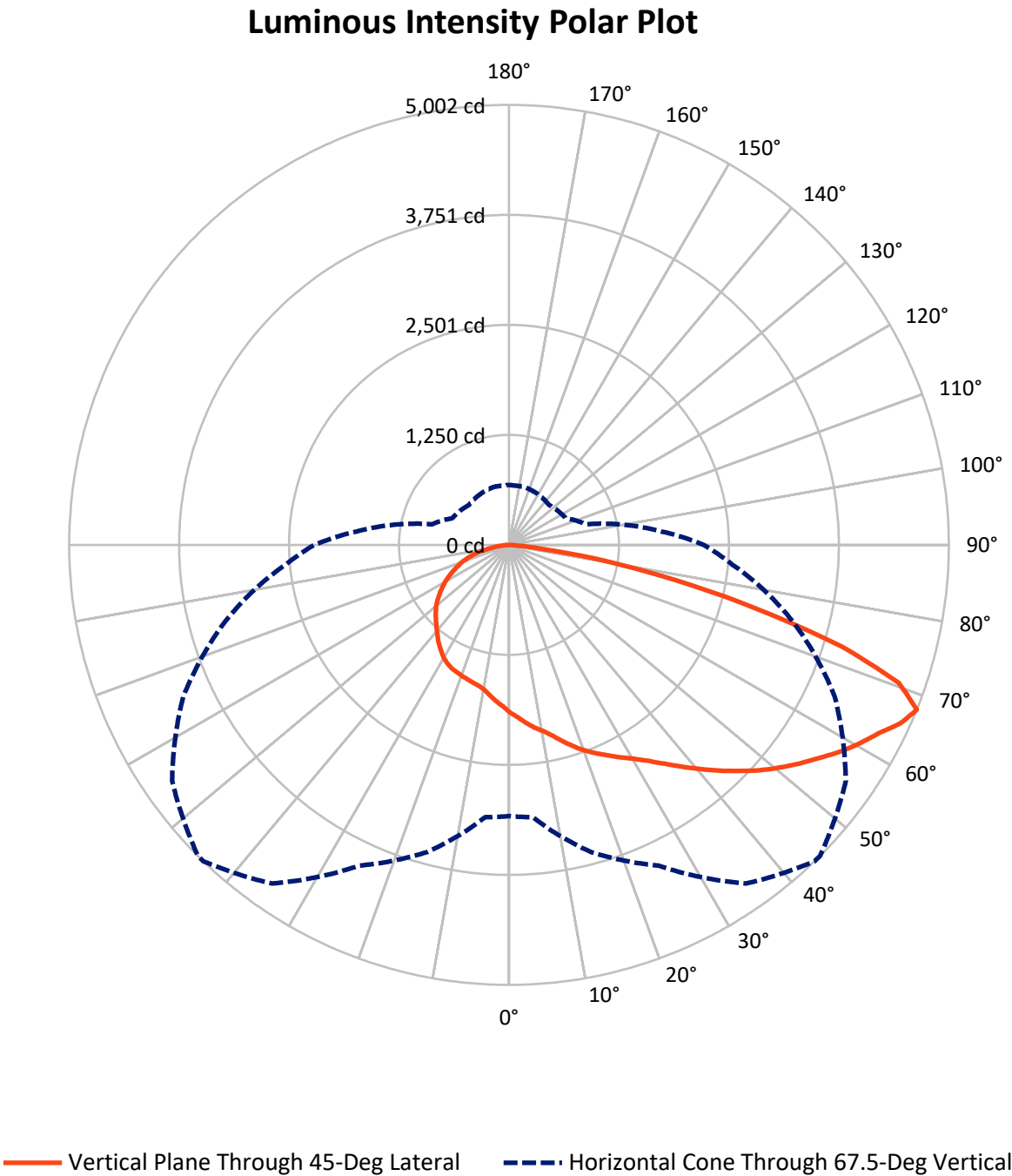
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc

Type IV - Short - N/A

REPORT NUMBER: P800281
CATALOG NUMBER: ARCH2-90-730-U-T4W



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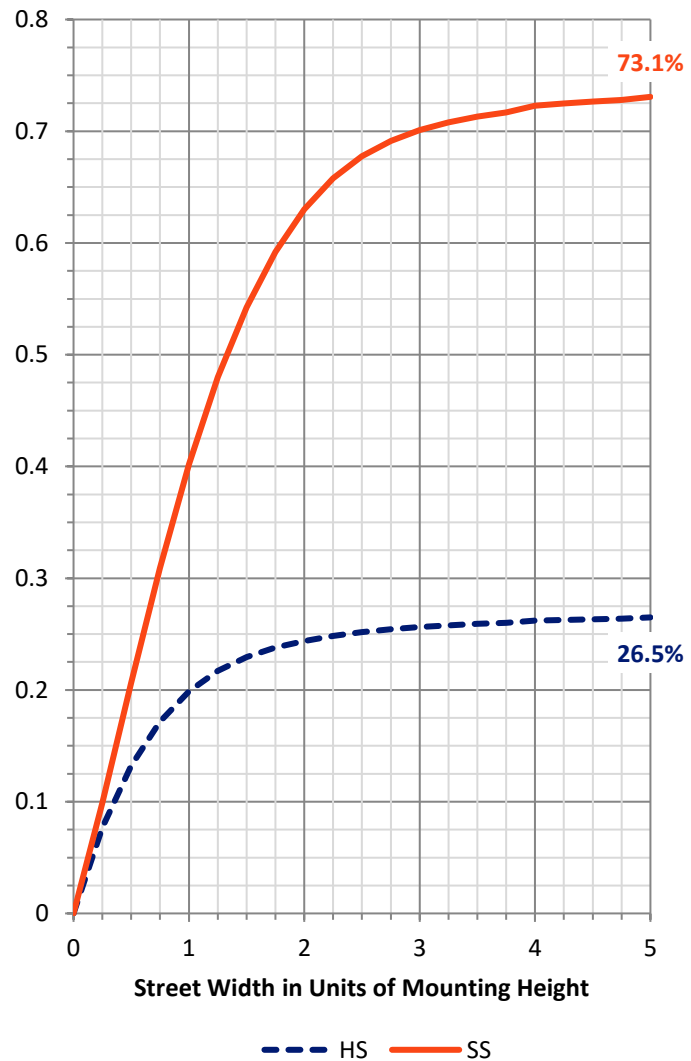
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3056.5	0.0	3056.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	8384.5	0.0	8384.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	11441.0	0.0	11441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.7	1.6
10°-20°	564.4	4.9
20°-30°	974.2	8.5
30°-40°	1436.6	12.6
40°-50°	1946.2	17.0
50°-60°	2378.8	20.8
60°-70°	2453.4	21.4
70°-80°	1343.8	11.7
80°-90°	161.1	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°	11441.0	100.0
0°-180°	11441.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800281

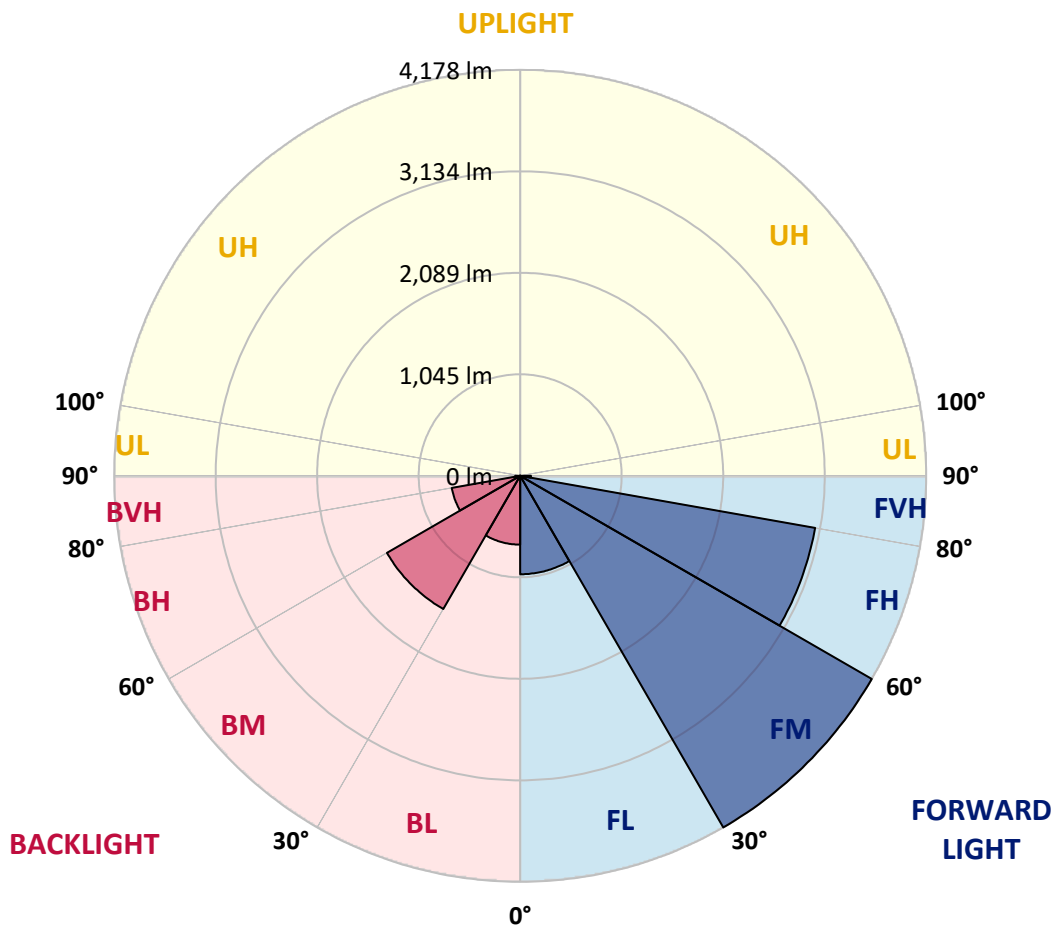
CATALOG NUMBER: ARCH2-90-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1012.8	8.9			
FM	(30°-60°)	4178.4	36.5			
FH	(60°-80°)	3082.4	26.9			G2/5000
FVH	(80°-90°)	111.0	1.0			G2/225
BL	(0°-30°)	708.4	6.2	B2/1000		
BM	(30°-60°)	1583.2	13.8	B2/2500		
BH	(60°-80°)	714.8	6.2	B2/1000		G2/1000
BVH	(80°-90°)	50.1	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: P800281

CATALOG NUMBER: ARCH2-90-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1908.1	1908.1	1908.1	1908.1	1908.1	1908.1	1908.1	1908.1	1908.1	1908.1	1908.1
2.5°	1991.7	1990.0	1993.5	1981.3	1965.6	1963.9	1963.9	1953.4	1941.2	1916.8	1897.7
5°	2085.7	2082.2	2084.0	2066.6	2045.7	2035.2	2033.5	2010.9	1983.0	1944.7	1909.9
7.5°	2172.8	2169.3	2167.6	2148.4	2117.1	2099.7	2097.9	2064.8	2031.8	1972.6	1922.1
10°	2254.6	2251.1	2247.6	2221.5	2183.2	2157.1	2153.6	2111.8	2070.1	1996.9	1932.5
12.5°	2359.1	2352.1	2348.6	2317.3	2261.6	2233.7	2228.5	2172.8	2120.5	2031.8	1953.4
15°	2468.7	2463.5	2458.3	2428.7	2366.0	2329.5	2320.8	2251.1	2179.7	2077.0	1984.7
17.5°	2550.6	2545.3	2545.3	2519.2	2461.8	2420.0	2413.0	2329.5	2240.7	2118.8	2009.1
20°	2601.1	2595.8	2601.1	2585.4	2541.9	2507.0	2500.1	2407.8	2301.6	2157.1	2030.0
22.5°	2637.6	2632.4	2641.1	2634.1	2602.8	2581.9	2576.7	2486.2	2364.3	2197.1	2050.9
25°	2702.0	2702.0	2702.0	2689.9	2660.3	2653.3	2653.3	2574.9	2444.4	2249.4	2082.2
27.5°	2830.9	2823.9	2815.2	2780.4	2729.9	2728.2	2738.6	2665.5	2536.6	2317.3	2120.5
30°	3020.6	3017.2	2984.1	2911.0	2825.7	2816.9	2823.9	2763.0	2635.9	2388.7	2164.1
32.5°	3266.1	3253.9	3186.0	3076.4	2954.5	2914.4	2928.4	2864.0	2740.3	2461.8	2205.9
35°	3440.2	3443.7	3395.0	3295.7	3151.2	3045.0	3055.5	2977.1	2853.5	2543.6	2258.1
37.5°	3640.4	3652.6	3579.5	3504.6	3370.6	3189.5	3200.0	3093.8	2966.7	2646.3	2313.8
40°	3917.3	3892.9	3769.3	3680.5	3532.5	3341.0	3349.7	3224.3	3097.2	2743.8	2378.2
42.5°	4148.8	4105.3	3955.6	3842.4	3664.8	3501.2	3509.9	3365.4	3229.6	2851.8	2449.6
45°	4481.3	4361.2	4145.3	4089.6	3800.6	3657.9	3666.6	3515.1	3368.8	2966.7	2526.2
47.5°	4674.6	4483.1	4345.5	4316.0	3950.3	3819.8	3830.2	3673.5	3518.6	3097.2	2606.3
50°	4662.4	4538.8	4498.8	4425.6	4082.7	3971.2	3981.7	3837.2	3670.0	3226.1	2682.9
52.5°	4582.3	4605.0	4584.1	4462.2	4215.0	4117.5	4129.7	3999.1	3825.0	3346.2	2754.3
55°	4705.9	4721.6	4681.6	4521.4	4361.2	4263.7	4277.7	4169.7	3978.2	3452.4	2815.2
57.5°	4853.9	4798.2	4758.2	4625.9	4512.7	4422.2	4437.8	4343.8	4110.5	3537.7	2862.2
60°	4847.0	4730.3	4770.4	4632.8	4615.4	4568.4	4582.3	4486.6	4211.5	3600.4	2881.4
62.5°	4490.1	4427.4	4629.3	4582.3	4699.0	4699.0	4716.4	4573.6	4272.4	3626.5	2870.9
65°	3870.3	3873.7	4228.9	4423.9	4798.2	4878.3	4892.2	4627.6	4237.6	3549.9	2773.4
67.5°	3083.3	3106.0	3616.1	4021.7	4699.0	5000.2	5001.9	4676.3	4087.9	3334.0	2547.1
70°	2256.3	2273.8	2876.1	3368.8	4230.6	4730.3	4702.5	4538.8	3762.3	2958.0	2193.7
72.5°	1525.1	1540.8	2160.6	2587.1	3471.6	4028.7	3967.8	4011.3	3206.9	2430.4	1763.6
75°	1025.5	1044.6	1537.3	1850.7	2554.1	3058.9	2923.1	3038.1	2480.9	1840.2	1286.6
77.5°	645.9	658.1	976.7	1213.5	1744.5	2082.2	1946.4	1948.2	1429.4	990.6	691.2
80°	410.9	414.4	591.9	699.9	1009.8	1251.8	1107.3	900.1	644.2	525.8	412.6
82.5°	238.5	233.3	353.4	395.2	480.5	475.3	393.5	372.6	282.0	262.9	210.7
85°	95.8	88.8	154.9	144.5	146.2	154.9	114.9	114.9	92.3	71.4	52.2
87.5°	19.2	19.2	20.9	19.2	19.2	20.9	15.7	15.7	13.9	13.9	13.9
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: P800281

CATALOG NUMBER: ARCH2-90-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1908.1	1908.1	1908.1	1908.1	1908.1	1908.1	1908.1	1908.1	1908.1	1908.1	1908.1
2.5°	1894.2	1890.7	1882.0	1859.4	1847.2	1840.2	1829.8	1826.3	1824.6	1826.3	1831.5
5°	1899.4	1887.2	1862.9	1826.3	1801.9	1786.3	1768.9	1761.9	1756.7	1756.7	1761.9
7.5°	1902.9	1883.8	1842.0	1788.0	1753.2	1728.8	1707.9	1699.2	1697.5	1702.7	1704.4
10°	1904.7	1876.8	1817.6	1749.7	1704.4	1673.1	1652.2	1647.0	1652.2	1662.7	1664.4
12.5°	1916.8	1878.5	1803.7	1723.6	1669.6	1638.3	1622.6	1622.6	1636.5	1655.7	1657.4
15°	1937.7	1890.7	1796.7	1702.7	1647.0	1619.1	1613.9	1622.6	1643.5	1673.1	1676.6
17.5°	1953.4	1897.7	1781.0	1674.8	1617.4	1600.0	1608.7	1629.6	1659.2	1699.2	1702.7
20°	1963.9	1897.7	1758.4	1641.8	1587.8	1584.3	1608.7	1641.8	1673.1	1720.1	1725.3
22.5°	1974.3	1894.2	1732.3	1601.7	1554.7	1565.2	1610.4	1652.2	1683.6	1734.0	1742.7
25°	1993.5	1899.4	1706.2	1561.7	1519.9	1549.5	1608.7	1659.2	1692.3	1744.5	1758.4
27.5°	2019.6	1911.6	1687.0	1525.1	1485.1	1525.1	1596.5	1657.4	1692.3	1742.7	1758.4
30°	2047.4	1925.6	1664.4	1485.1	1445.0	1490.3	1570.4	1638.3	1678.3	1725.3	1744.5
32.5°	2077.0	1941.2	1645.3	1441.6	1396.3	1443.3	1532.1	1608.7	1652.2	1695.7	1716.6
35°	2117.1	1969.1	1634.8	1406.7	1352.8	1394.5	1483.3	1570.4	1617.4	1657.4	1681.8
37.5°	2165.8	2003.9	1629.6	1371.9	1305.8	1340.6	1431.1	1523.4	1573.9	1606.9	1629.6
40°	2221.5	2047.4	1627.8	1338.8	1258.7	1284.9	1377.1	1469.4	1518.2	1544.3	1563.4
42.5°	2284.2	2096.2	1624.4	1305.8	1211.7	1232.6	1324.9	1415.4	1457.2	1479.9	1497.3
45°	2350.4	2144.9	1617.4	1265.7	1161.3	1185.6	1270.9	1351.0	1394.5	1413.7	1432.8
47.5°	2416.5	2193.7	1603.5	1220.4	1116.0	1138.6	1213.5	1283.1	1317.9	1335.4	1354.5
50°	2480.9	2237.2	1570.4	1168.2	1069.0	1089.9	1147.3	1194.3	1220.4	1234.4	1253.5
52.5°	2538.4	2266.8	1523.4	1107.3	1022.0	1032.4	1070.7	1110.8	1131.7	1133.4	1150.8
55°	2587.1	2282.5	1455.5	1044.6	971.5	973.2	994.1	1025.5	1034.2	1027.2	1039.4
57.5°	2615.0	2273.8	1380.6	980.2	919.3	912.3	928.0	943.6	945.4	928.0	940.1
60°	2622.0	2233.7	1283.1	915.8	867.0	847.9	853.1	849.6	846.1	839.2	849.6
62.5°	2587.1	2148.4	1175.2	853.1	811.3	781.7	780.0	778.2	783.5	785.2	786.9
65°	2460.0	1988.2	1046.3	788.7	752.1	712.1	710.3	731.2	738.2	727.7	731.2
67.5°	2214.6	1742.7	905.3	713.8	677.3	642.4	656.4	668.5	680.7	677.3	680.7
70°	1866.4	1431.1	776.5	630.2	595.4	576.3	591.9	602.4	604.1	600.6	604.1
72.5°	1467.7	1117.7	656.4	544.9	513.6	504.9	524.0	532.7	548.4	555.4	557.1
75°	1060.3	825.2	538.0	452.7	426.5	426.5	444.0	459.6	473.6	464.8	459.6
77.5°	591.9	492.7	386.5	311.6	316.9	341.2	348.2	365.6	379.5	377.8	374.3
80°	358.6	308.2	261.2	202.0	200.2	219.4	264.6	294.2	301.2	285.5	283.8
82.5°	186.3	161.9	139.3	113.2	125.4	146.2	153.2	184.5	203.7	196.7	205.4
85°	47.0	45.3	50.5	52.2	64.4	71.4	78.3	92.3	60.9	29.6	29.6
87.5°	13.9	13.9	17.4	17.4	22.6	27.9	26.1	26.1	13.9	1.7	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)