

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: P800196

Luminaire Tested: **ARCH2-80-750-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-80-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7734 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.3
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

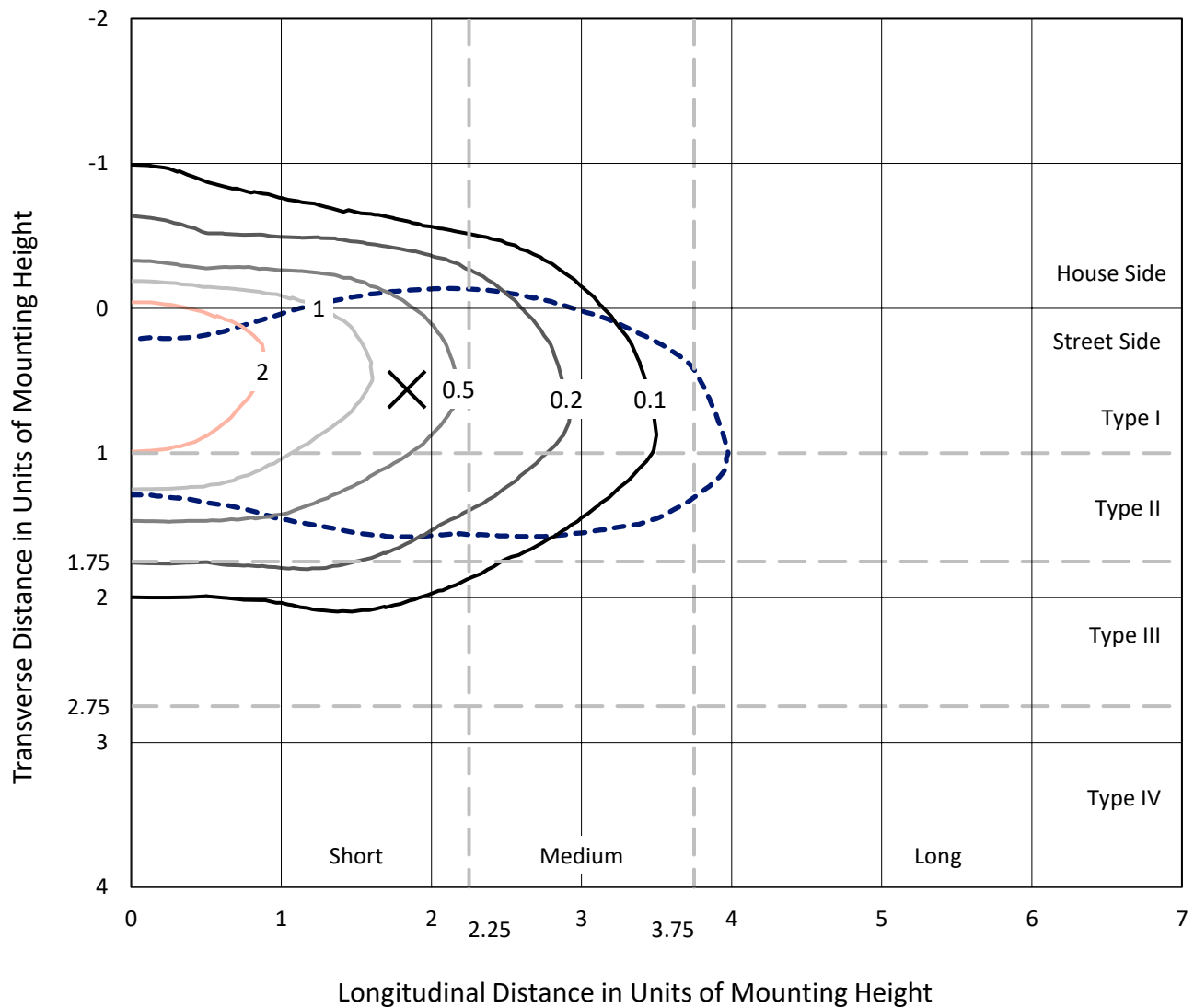


REPORT NUMBER: P800196

CATALOG NUMBER: ARCH2-80-750-U-T2U-HSS

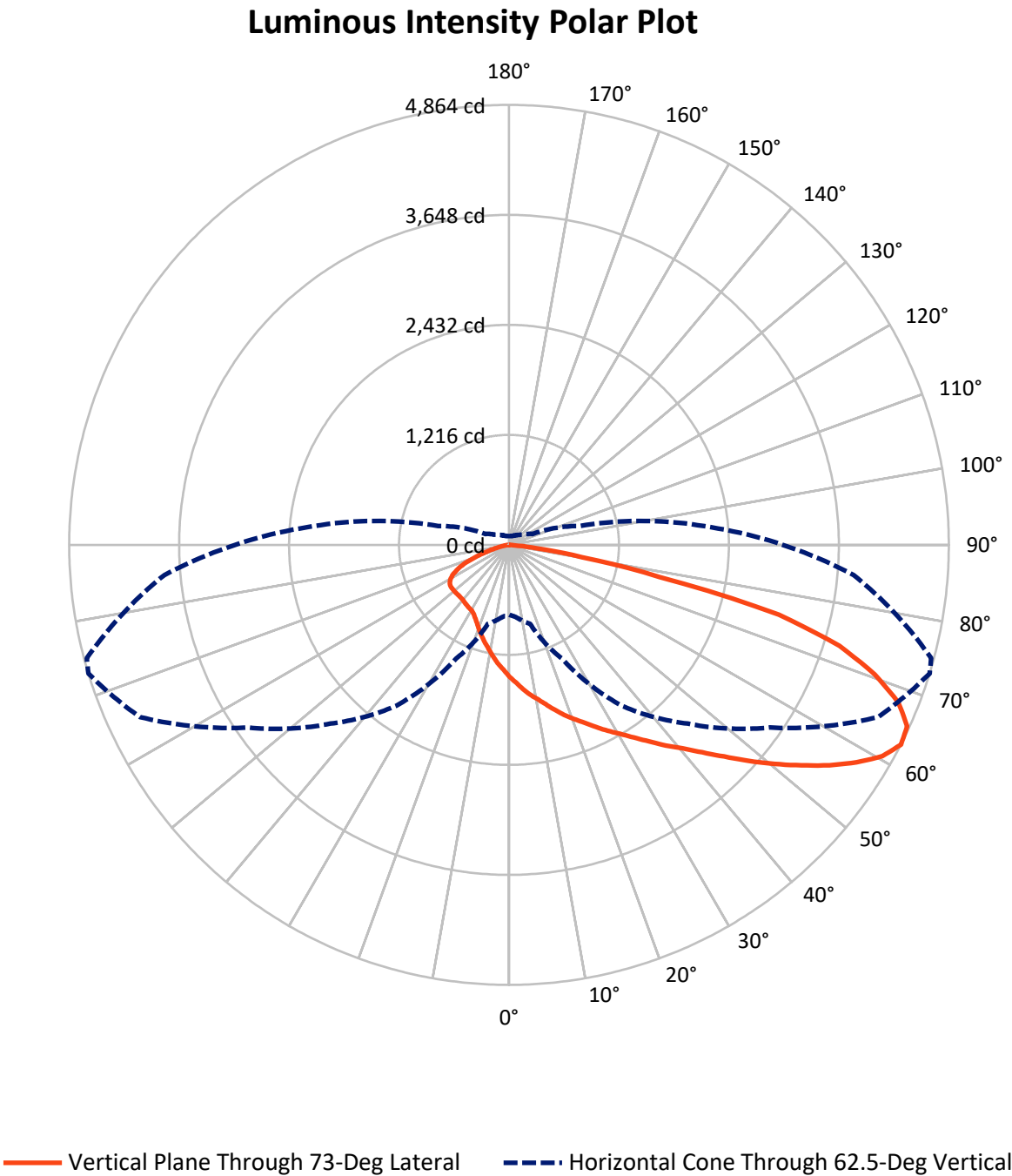
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type II - Short - N/A

REPORT NUMBER: P800196
CATALOG NUMBER: ARCH2-80-750-U-T2U-HSS



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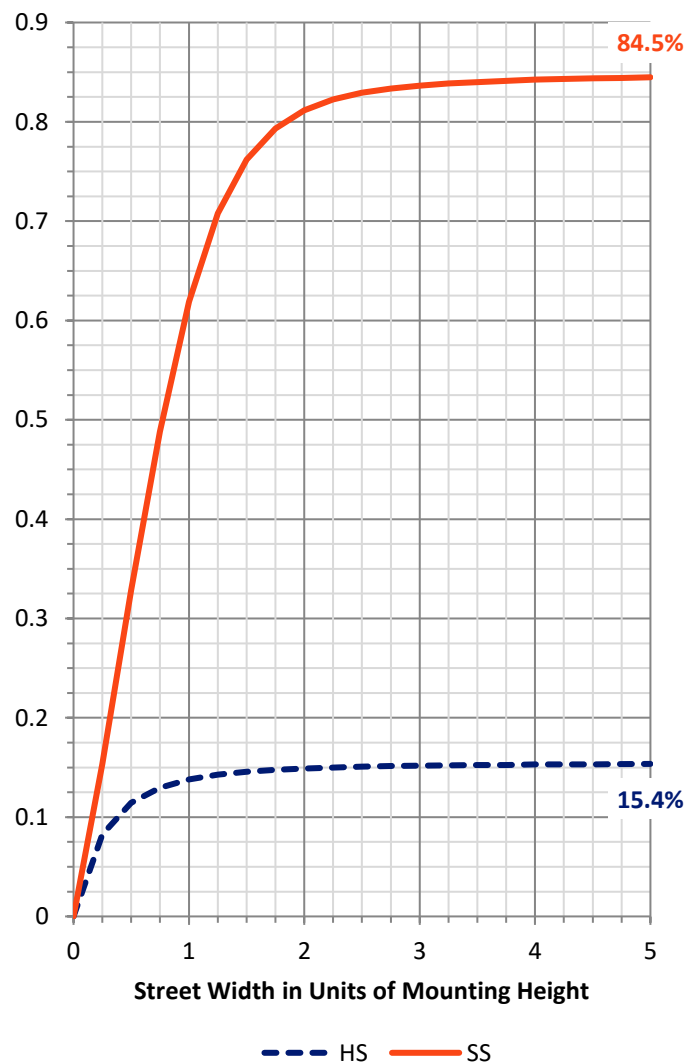
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1198.9	0.0	1198.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6535.1	0.0	6535.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	7734.0	0.0	7734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	1.8
10°-20°	426.9	5.5
20°-30°	710.6	9.2
30°-40°	1072.2	13.9
40°-50°	1498.6	19.4
50°-60°	1655.3	21.4
60°-70°	1442.0	18.6
70°-80°	728.4	9.4
80°-90°	58.5	0.8
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°	7734.0	100.0
0°-180°	7734.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800196

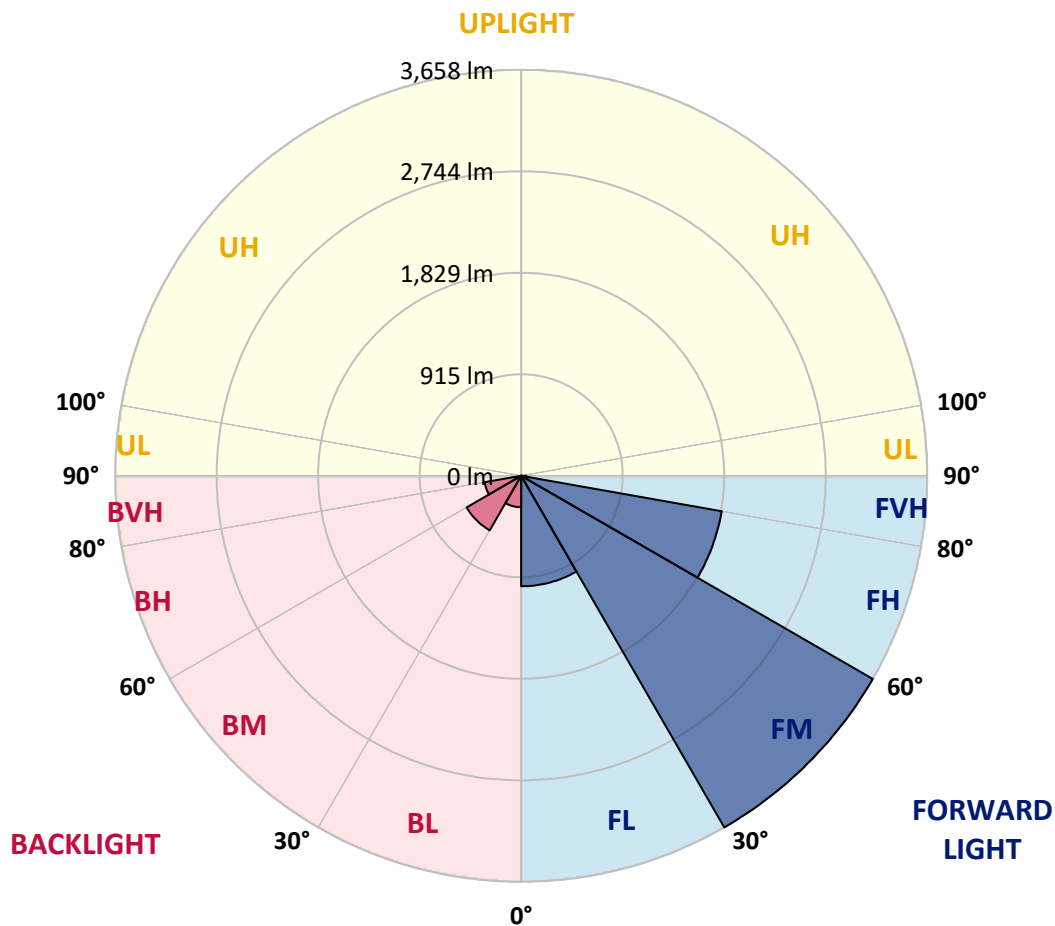
CATALOG NUMBER: ARCH2-80-750-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	995.6	12.9			
FM	(30°-60°)	3658.5	47.3			
FH	(60°-80°)	1835.8	23.7			G2/5000
FVH	(80°-90°)	45.2	0.6			G1/100
BL	(0°-30°)	283.4	3.7	B1/500		
BM	(30°-60°)	567.7	7.3	B1/1000		
BH	(60°-80°)	334.6	4.3	B1/500		G1/500
BVH	(80°-90°)	13.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



REPORT NUMBER: P800196

CATALOG NUMBER: ARCH2-80-750-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4
2.5°	1666.7	1685.2	1675.1	1681.8	1648.1	1626.2	1601.0	1552.1	1525.1	1521.7	1489.7
5°	1911.0	1931.3	1914.4	1909.3	1850.4	1799.8	1742.5	1656.6	1599.3	1589.2	1518.4
7.5°	2155.4	2173.9	2153.7	2138.5	2059.3	1970.0	1885.8	1759.4	1670.0	1653.2	1542.0
10°	2327.3	2344.1	2329.0	2313.8	2231.2	2140.2	2020.6	1855.4	1734.1	1707.1	1557.1
12.5°	2457.0	2467.2	2460.4	2446.9	2369.4	2271.7	2157.1	1963.3	1806.5	1772.8	1580.7
15°	2563.2	2580.1	2571.6	2561.5	2487.4	2389.6	2280.1	2076.2	1890.8	1848.7	1616.1
17.5°	2634.0	2645.8	2647.5	2647.5	2581.7	2485.7	2379.5	2179.0	1975.1	1921.1	1649.8
20°	2666.0	2679.5	2687.9	2701.4	2647.5	2564.9	2457.0	2266.6	2054.3	1993.6	1681.8
22.5°	2681.2	2693.0	2714.9	2745.2	2701.4	2632.3	2532.9	2347.5	2133.5	2069.4	1718.9
25°	2693.0	2708.1	2740.2	2797.5	2767.1	2708.1	2622.2	2440.2	2227.9	2162.1	1772.8
27.5°	2725.0	2743.5	2773.9	2843.0	2805.9	2777.2	2716.6	2539.6	2327.3	2259.9	1838.6
30°	2836.2	2851.4	2849.7	2893.5	2848.0	2839.6	2797.5	2635.7	2423.3	2355.9	1916.1
32.5°	3038.4	3053.6	3016.5	2999.7	2900.2	2901.9	2885.1	2738.5	2537.9	2468.8	2005.4
35°	3255.8	3272.7	3223.8	3195.2	3028.3	2979.5	2987.9	2866.5	2666.0	2596.9	2116.6
37.5°	3449.6	3469.9	3427.7	3385.6	3217.1	3104.2	3102.5	3009.8	2812.6	2741.8	2239.6
40°	3555.8	3579.4	3604.7	3581.1	3404.1	3279.4	3225.5	3156.4	2957.5	2885.1	2372.8
42.5°	3606.4	3672.1	3717.6	3702.4	3557.5	3431.1	3367.1	3309.8	3134.5	3063.7	2531.2
45°	3464.8	3466.5	3562.5	3645.1	3618.2	3533.9	3522.1	3481.6	3336.7	3269.3	2709.8
47.5°	3287.8	3274.4	3341.8	3488.4	3564.2	3586.1	3655.2	3672.1	3567.6	3500.2	2891.8
50°	2863.2	2871.6	3090.7	3301.3	3449.6	3591.2	3749.6	3867.6	3805.2	3741.2	3083.9
52.5°	2329.0	2349.2	2600.3	3063.7	3298.0	3540.6	3805.2	4063.0	4047.9	3987.2	3276.1
55°	1867.2	1899.2	2165.5	2667.7	3104.2	3427.7	3828.8	4241.7	4299.0	4243.4	3464.8
57.5°	1427.4	1461.1	1685.2	2200.9	2856.4	3244.0	3811.9	4398.4	4533.2	4497.8	3638.4
60°	1075.2	1108.9	1252.1	1784.6	2546.4	3038.4	3727.7	4501.2	4743.9	4706.8	3764.8
62.5°	770.1	797.1	903.3	1388.6	2168.9	2794.1	3520.4	4502.9	4863.5	4833.2	3825.4
65°	554.4	554.4	640.4	990.9	1815.0	2500.9	3207.0	4295.6	4838.2	4829.8	3783.3
67.5°	399.4	402.8	471.9	692.6	1447.6	2145.3	2800.8	3926.5	4642.8	4684.9	3631.6
70°	283.1	291.5	323.6	483.7	1093.7	1693.6	2366.0	3442.9	4290.5	4364.7	3338.4
72.5°	219.1	224.1	246.0	337.0	798.8	1258.9	1885.8	2903.6	3820.4	3904.6	2939.0
75°	168.5	173.6	190.4	247.7	573.0	883.1	1339.7	2253.1	3080.6	3230.6	2361.0
77.5°	123.0	129.8	141.6	180.3	333.7	561.2	812.3	1267.3	1700.4	1771.2	1236.9
80°	57.3	65.7	82.6	116.3	180.3	264.6	288.2	488.7	817.3	854.4	670.7
82.5°	32.0	40.4	47.2	70.8	91.0	94.4	97.7	123.0	308.4	340.4	281.4
85°	15.2	20.2	21.9	30.3	30.3	27.0	32.0	23.6	50.6	60.7	59.0
87.5°	0.0	1.7	3.4	8.4	6.7	5.1	5.1	5.1	5.1	6.7	5.1
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: P800196

CATALOG NUMBER: ARCH2-80-750-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4	1464.4
2.5°	1474.6	1452.7	1402.1	1358.3	1329.6	1304.4	1270.6	1255.5	1228.5	1233.6	1218.4
5°	1483.0	1442.5	1353.2	1270.6	1210.0	1156.1	1097.1	1063.4	1026.3	1022.9	1011.1
7.5°	1488.0	1425.7	1297.6	1181.3	1088.6	1006.1	926.9	883.1	837.6	827.4	817.3
10°	1483.0	1400.4	1240.3	1088.6	965.6	862.8	773.5	717.9	670.7	658.9	648.8
12.5°	1488.0	1386.9	1186.4	1002.7	856.1	739.8	638.7	581.4	537.6	525.8	519.0
15°	1499.8	1378.5	1140.9	925.2	758.3	628.6	529.2	480.3	444.9	433.1	429.7
17.5°	1510.0	1370.1	1092.0	849.3	660.6	530.8	444.9	404.5	374.1	362.3	359.0
20°	1523.4	1358.3	1043.1	776.9	574.7	453.3	377.5	342.1	318.5	310.1	308.4
22.5°	1535.2	1349.9	997.6	704.4	495.5	391.0	326.9	298.3	281.4	273.0	273.0
25°	1565.6	1353.2	958.9	637.0	436.5	342.1	288.2	266.3	252.8	247.7	247.7
27.5°	1601.0	1366.7	928.6	579.7	385.9	305.0	261.2	242.7	235.9	229.2	230.9
30°	1651.5	1393.7	908.3	532.5	348.8	276.4	239.3	225.8	219.1	217.4	217.4
32.5°	1715.5	1437.5	906.6	502.2	321.9	254.5	224.1	212.3	209.0	207.3	207.3
35°	1791.4	1476.2	896.5	488.7	305.0	239.3	212.3	203.9	202.2	202.2	202.2
37.5°	1882.4	1540.3	889.8	470.2	296.6	230.9	203.9	197.2	197.2	197.2	197.2
40°	1976.8	1592.5	879.7	453.3	293.2	225.8	198.9	190.4	190.4	190.4	190.4
42.5°	2089.7	1668.4	876.3	444.9	288.2	222.4	192.1	182.0	183.7	183.7	185.4
45°	2226.2	1754.3	874.6	436.5	286.5	219.1	185.4	173.6	175.3	173.6	173.6
47.5°	2364.4	1853.7	879.7	431.4	284.8	215.7	180.3	165.2	165.2	163.5	163.5
50°	2509.3	1944.7	883.1	426.4	281.4	209.0	171.9	158.4	155.0	151.7	153.4
52.5°	2645.8	2029.0	884.7	417.9	271.3	198.9	165.2	150.0	144.9	139.9	141.6
55°	2782.3	2109.9	888.1	407.8	257.8	188.7	156.7	141.6	134.8	128.1	128.1
57.5°	2905.3	2180.7	879.7	382.5	242.7	178.6	148.3	131.4	121.3	114.6	114.6
60°	2989.6	2231.2	854.4	345.5	222.4	166.8	139.9	121.3	109.5	104.5	104.5
62.5°	3030.0	2239.6	808.9	284.8	197.2	155.0	129.8	111.2	101.1	97.7	97.7
65°	2991.3	2202.6	738.1	214.0	170.2	141.6	119.7	102.8	92.7	84.3	84.3
67.5°	2856.4	2098.1	640.4	161.8	144.9	128.1	109.5	94.4	82.6	75.8	75.8
70°	2585.1	1880.7	495.5	129.8	123.0	111.2	99.4	84.3	74.1	65.7	65.7
72.5°	2229.5	1594.2	348.8	104.5	104.5	94.4	84.3	74.1	64.0	57.3	57.3
75°	1710.5	1179.6	234.2	84.3	85.9	79.2	69.1	60.7	53.9	48.9	48.9
77.5°	933.6	583.1	143.2	62.4	64.0	60.7	53.9	48.9	45.5	40.4	40.4
80°	453.3	256.2	82.6	43.8	45.5	43.8	40.4	35.4	35.4	32.0	32.0
82.5°	190.4	96.1	43.8	30.3	30.3	27.0	25.3	25.3	25.3	23.6	23.6
85°	47.2	18.5	18.5	16.9	16.9	16.9	15.2	15.2	15.2	11.8	13.5
87.5°	6.7	6.7	6.7	6.7	6.7	6.7	5.1	1.7	0.0	0.0	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)