

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: P800004

Luminaire Tested: **ARCH2-70-727-U-T2U-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800004
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: ARCH2-70-727-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 555mA 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: 6437 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 73.6
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

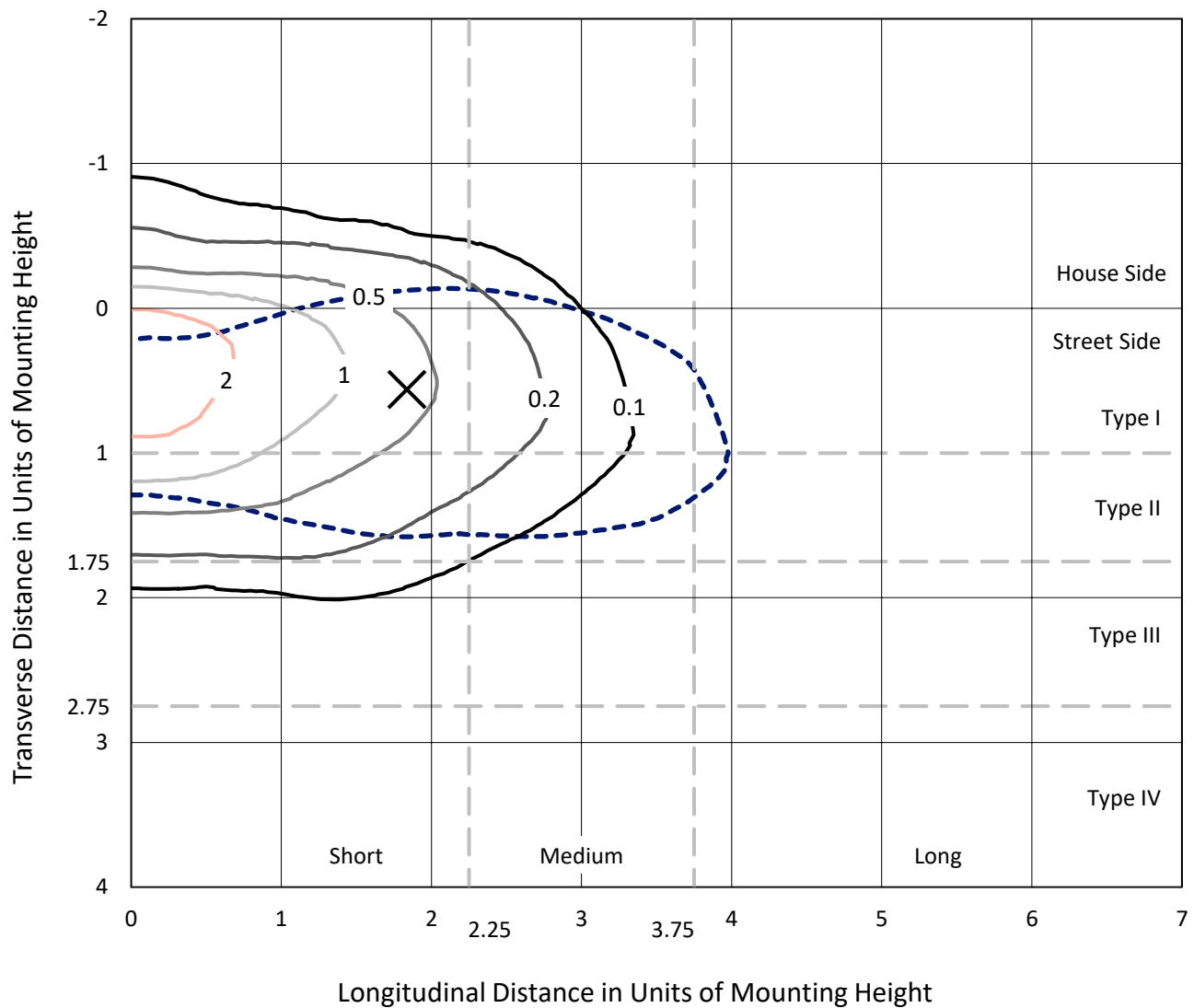


REPORT NUMBER: P800004

CATALOG NUMBER: ARCH2-70-727-U-T2U-HSS

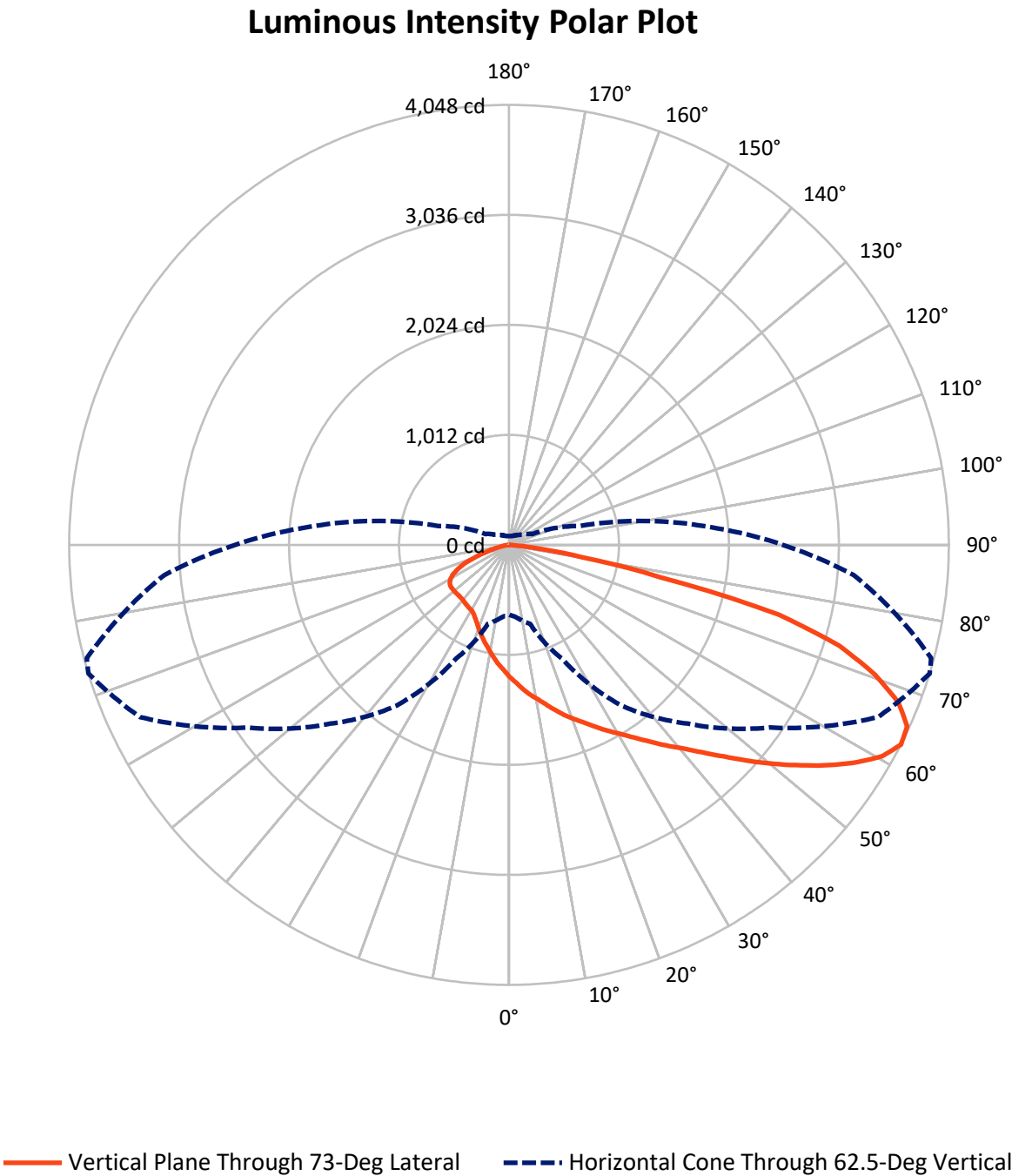
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type II - Short - N/A

REPORT NUMBER: P800004
CATALOG NUMBER: ARCH2-70-727-U-T2U-HSS



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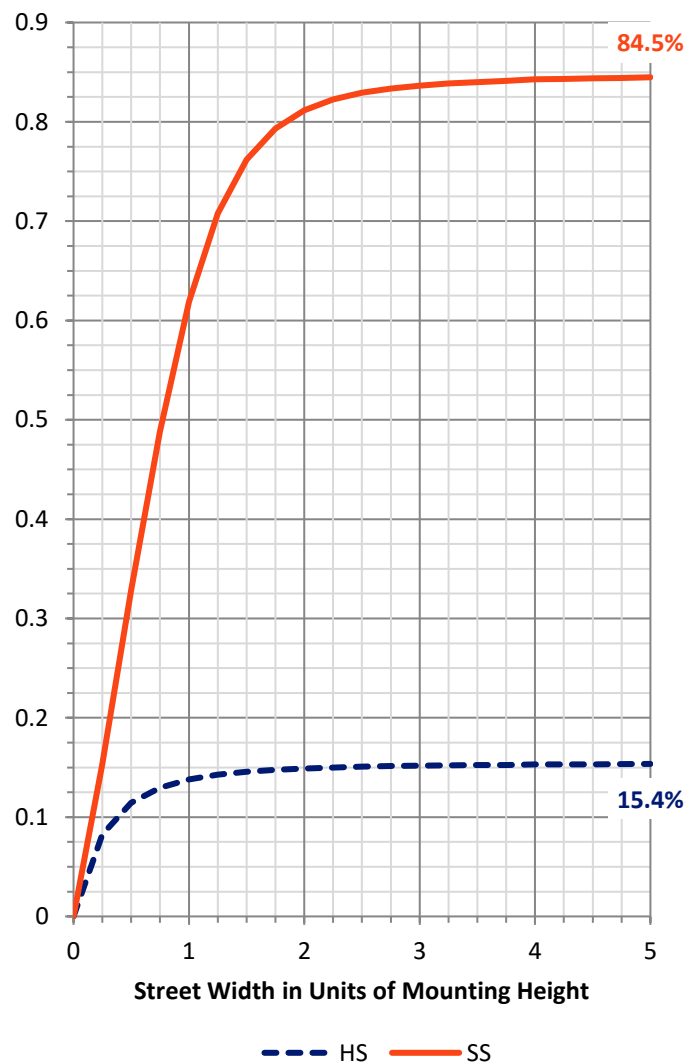
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	997.8	0.0	997.8
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	5439.2	0.0	5439.2
	% Fixture	84.5	0.0	84.5
Total	Lumens	6437.0	0.0	6437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	1.8
10°-20°	355.3	5.5
20°-30°	591.4	9.2
30°-40°	892.4	13.9
40°-50°	1247.3	19.4
50°-60°	1377.7	21.4
60°-70°	1200.2	18.6
70°-80°	606.3	9.4
80°-90°	48.6	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°	6437.0	100.0
0°-180°	6437.0	100.0

Coefficient of Utilization



REPORT NUMBER: P800004

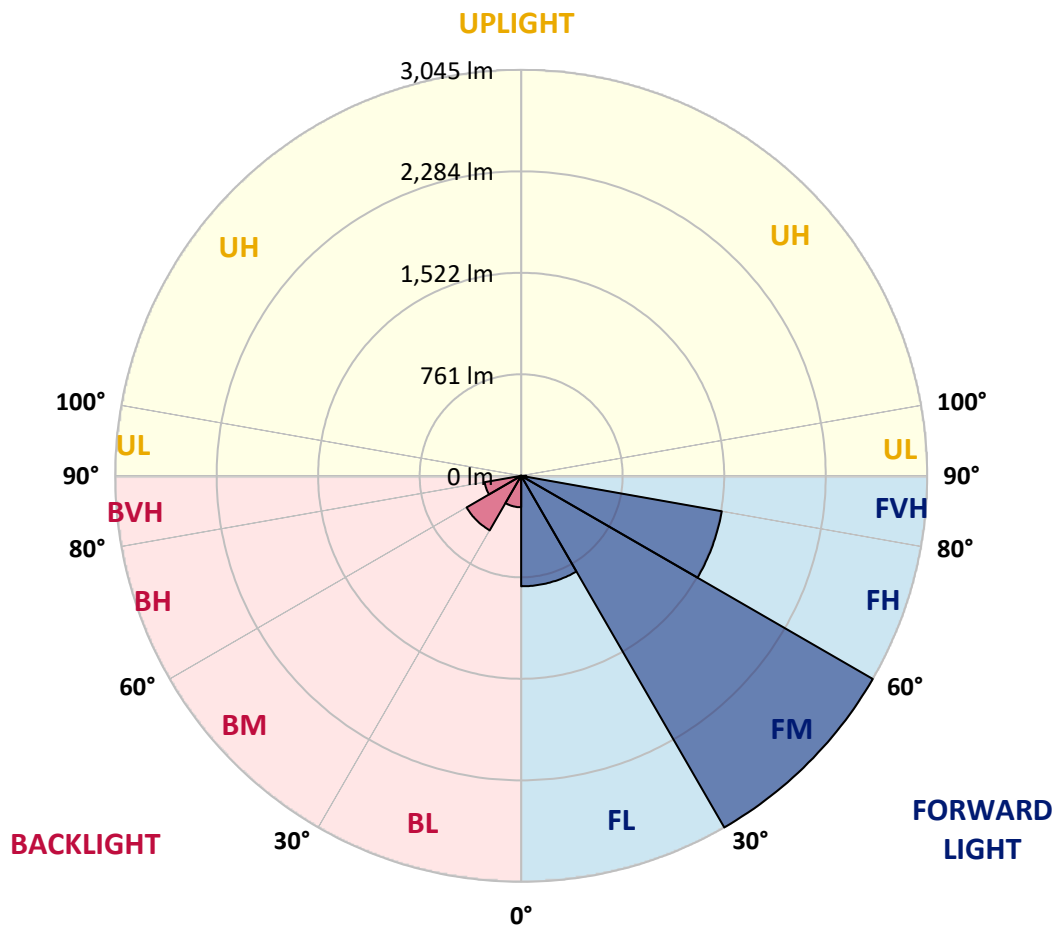
CATALOG NUMBER: ARCH2-70-727-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	828.6	12.9			
FM	(30°-60°)	3044.9	47.3			
FH	(60°-80°)	1527.9	23.7			G1/1800
FVH	(80°-90°)	37.7	0.6			G1/100
BL	(0°-30°)	235.8	3.7	B1/500		
BM	(30°-60°)	472.5	7.3	B1/1000		
BH	(60°-80°)	278.5	4.3	B1/500		G1/500
BVH	(80°-90°)	11.0	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-G1

Type II Short



REPORT NUMBER: P800004

CATALOG NUMBER: ARCH2-70-727-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1387.2	1402.6	1394.2	1399.8	1371.7	1353.5	1332.5	1291.8	1269.4	1266.5	1239.9
5°	1590.5	1607.4	1593.4	1589.1	1540.1	1498.0	1450.3	1378.8	1331.1	1322.7	1263.7
7.5°	1793.9	1809.4	1792.5	1779.9	1714.0	1639.6	1569.5	1464.3	1390.0	1376.0	1283.4
10°	1937.0	1951.0	1938.4	1925.8	1857.0	1781.3	1681.7	1544.3	1443.3	1420.8	1296.0
12.5°	2045.0	2053.4	2047.8	2036.6	1972.1	1890.7	1795.3	1634.0	1503.6	1475.5	1315.6
15°	2133.4	2147.4	2140.4	2132.0	2070.2	1988.9	1897.7	1728.0	1573.7	1538.7	1345.1
17.5°	2192.3	2202.1	2203.5	2203.5	2148.8	2068.8	1980.5	1813.6	1643.8	1599.0	1373.1
20°	2218.9	2230.1	2237.1	2248.4	2203.5	2134.8	2045.0	1886.5	1709.8	1659.3	1399.8
22.5°	2231.5	2241.4	2259.6	2284.8	2248.4	2190.9	2108.1	1953.8	1775.7	1722.4	1430.7
25°	2241.4	2254.0	2280.6	2328.3	2303.1	2254.0	2182.4	2031.0	1854.2	1799.5	1475.5
27.5°	2268.0	2283.4	2308.7	2366.2	2335.3	2311.5	2261.0	2113.7	1937.0	1880.9	1530.2
30°	2360.6	2373.2	2371.8	2408.3	2370.4	2363.4	2328.3	2193.7	2016.9	1960.8	1594.8
32.5°	2528.9	2541.5	2510.7	2496.6	2413.9	2415.3	2401.3	2279.2	2112.3	2054.8	1669.1
35°	2709.8	2723.8	2683.2	2659.3	2520.5	2479.8	2486.8	2385.8	2218.9	2161.4	1761.7
37.5°	2871.1	2888.0	2852.9	2817.8	2677.6	2583.6	2582.2	2505.0	2340.9	2282.0	1864.1
40°	2959.5	2979.1	3000.2	2980.5	2833.3	2729.5	2684.6	2627.1	2461.6	2401.3	1974.9
42.5°	3001.6	3056.3	3094.1	3081.5	2960.9	2855.7	2802.4	2754.7	2608.8	2549.9	2106.7
45°	2883.7	2885.1	2965.1	3033.8	3011.4	2941.3	2931.4	2897.8	2777.1	2721.0	2255.4
47.5°	2736.5	2725.3	2781.4	2903.4	2966.5	2984.7	3042.2	3056.3	2969.3	2913.2	2406.9
50°	2383.0	2390.0	2572.4	2747.7	2871.1	2988.9	3120.8	3219.0	3167.1	3113.8	2566.8
52.5°	1938.4	1955.2	2164.2	2549.9	2744.9	2946.9	3167.1	3381.7	3369.0	3318.6	2726.7
55°	1554.1	1580.7	1802.3	2220.3	2583.6	2852.9	3186.7	3530.3	3578.0	3531.7	2883.7
57.5°	1188.0	1216.1	1402.6	1831.8	2377.4	2700.0	3172.7	3660.8	3773.0	3743.5	3028.2
60°	894.9	922.9	1042.1	1485.4	2119.3	2528.9	3102.6	3746.3	3948.3	3917.5	3133.4
62.5°	641.0	663.4	751.8	1155.7	1805.1	2325.5	2930.0	3747.7	4047.9	4022.7	3183.9
65°	461.5	461.5	533.0	824.7	1510.6	2081.5	2669.1	3575.2	4026.9	4019.9	3148.8
67.5°	332.4	335.2	392.7	576.5	1204.8	1785.5	2331.1	3268.1	3864.2	3899.2	3022.6
70°	235.6	242.6	269.3	402.5	910.3	1409.6	1969.3	2865.5	3571.0	3632.7	2778.6
72.5°	182.3	186.5	204.8	280.5	664.8	1047.7	1569.5	2416.7	3179.7	3249.8	2446.1
75°	140.3	144.5	158.5	206.2	476.9	735.0	1115.1	1875.3	2564.0	2688.8	1965.0
77.5°	102.4	108.0	117.8	150.1	277.7	467.1	676.1	1054.8	1415.2	1474.1	1029.5
80°	47.7	54.7	68.7	96.8	150.1	220.2	239.8	406.8	680.3	711.1	558.2
82.5°	26.6	33.7	39.3	58.9	75.7	78.5	81.4	102.4	256.7	283.3	234.2
85°	12.6	16.8	18.2	25.2	25.2	22.4	26.6	19.6	42.1	50.5	49.1
87.5°	0.0	1.4	2.8	7.0	5.6	4.2	4.2	4.2	4.2	5.6	4.2
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: P800004

CATALOG NUMBER: ARCH2-70-727-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9	1218.9
2.5°	1227.3	1209.0	1167.0	1130.5	1106.7	1085.6	1057.6	1044.9	1022.5	1026.7	1014.1
5°	1234.3	1200.6	1126.3	1057.6	1007.1	962.2	913.1	885.0	854.2	851.4	841.6
7.5°	1238.5	1186.6	1080.0	983.2	906.1	837.4	771.4	735.0	697.1	688.7	680.3
10°	1234.3	1165.6	1032.3	906.1	803.7	718.1	643.8	597.5	558.2	548.4	540.0
12.5°	1238.5	1154.3	987.4	834.5	712.5	615.7	531.6	483.9	447.4	437.6	432.0
15°	1248.3	1147.3	949.6	770.0	631.2	523.2	440.4	399.7	370.3	360.5	357.7
17.5°	1256.7	1140.3	908.9	706.9	549.8	441.8	370.3	336.6	311.4	301.6	298.8
20°	1268.0	1130.5	868.2	646.6	478.3	377.3	314.2	284.7	265.1	258.1	256.7
22.5°	1277.8	1123.5	830.3	586.3	412.4	325.4	272.1	248.3	234.2	227.2	227.2
25°	1303.0	1126.3	798.1	530.2	363.3	284.7	239.8	221.6	210.4	206.2	206.2
27.5°	1332.5	1137.5	772.8	482.5	321.2	253.9	217.4	202.0	196.4	190.8	192.2
30°	1374.5	1160.0	756.0	443.2	290.3	230.0	199.2	187.9	182.3	180.9	180.9
32.5°	1427.8	1196.4	754.6	418.0	267.9	211.8	186.5	176.7	173.9	172.5	172.5
35°	1491.0	1228.7	746.2	406.8	253.9	199.2	176.7	169.7	168.3	168.3	168.3
37.5°	1566.7	1282.0	740.6	391.3	246.9	192.2	169.7	164.1	164.1	164.1	164.1
40°	1645.3	1325.5	732.2	377.3	244.1	187.9	165.5	158.5	158.5	158.5	158.5
42.5°	1739.2	1388.6	729.4	370.3	239.8	185.1	159.9	151.5	152.9	152.9	154.3
45°	1852.8	1460.1	727.9	363.3	238.4	182.3	154.3	144.5	145.9	144.5	144.5
47.5°	1967.8	1542.9	732.2	359.1	237.0	179.5	150.1	137.5	137.5	136.1	136.1
50°	2088.5	1618.6	735.0	354.9	234.2	173.9	143.1	131.8	129.0	126.2	127.6
52.5°	2202.1	1688.7	736.4	347.8	225.8	165.5	137.5	124.8	120.6	116.4	117.8
55°	2315.7	1756.1	739.2	339.4	214.6	157.1	130.4	117.8	112.2	106.6	106.6
57.5°	2418.1	1815.0	732.2	318.4	202.0	148.7	123.4	109.4	101.0	95.4	95.4
60°	2488.2	1857.0	711.1	287.5	185.1	138.9	116.4	101.0	91.2	87.0	87.0
62.5°	2521.9	1864.1	673.2	237.0	164.1	129.0	108.0	92.6	84.2	81.4	81.4
65°	2489.6	1833.2	614.3	178.1	141.7	117.8	99.6	85.6	77.1	70.1	70.1
67.5°	2377.4	1746.2	533.0	134.6	120.6	106.6	91.2	78.5	68.7	63.1	63.1
70°	2151.6	1565.3	412.4	108.0	102.4	92.6	82.8	70.1	61.7	54.7	54.7
72.5°	1855.6	1326.9	290.3	87.0	87.0	78.5	70.1	61.7	53.3	47.7	47.7
75°	1423.6	981.8	195.0	70.1	71.5	65.9	57.5	50.5	44.9	40.7	40.7
77.5°	777.0	485.3	119.2	51.9	53.3	50.5	44.9	40.7	37.9	33.7	33.7
80°	377.3	213.2	68.7	36.5	37.9	36.5	33.7	29.5	29.5	26.6	26.6
82.5°	158.5	79.9	36.5	25.2	25.2	22.4	21.0	21.0	21.0	19.6	19.6
85°	39.3	15.4	15.4	14.0	14.0	14.0	12.6	12.6	12.6	9.8	11.2
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	4.2	1.4	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)