

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: P799881

Luminaire Tested: **ARCH2-60-727-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799881
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: ARCH2-60-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8273 lumens
Efficiency: N/A
Efficacy: 129.7 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

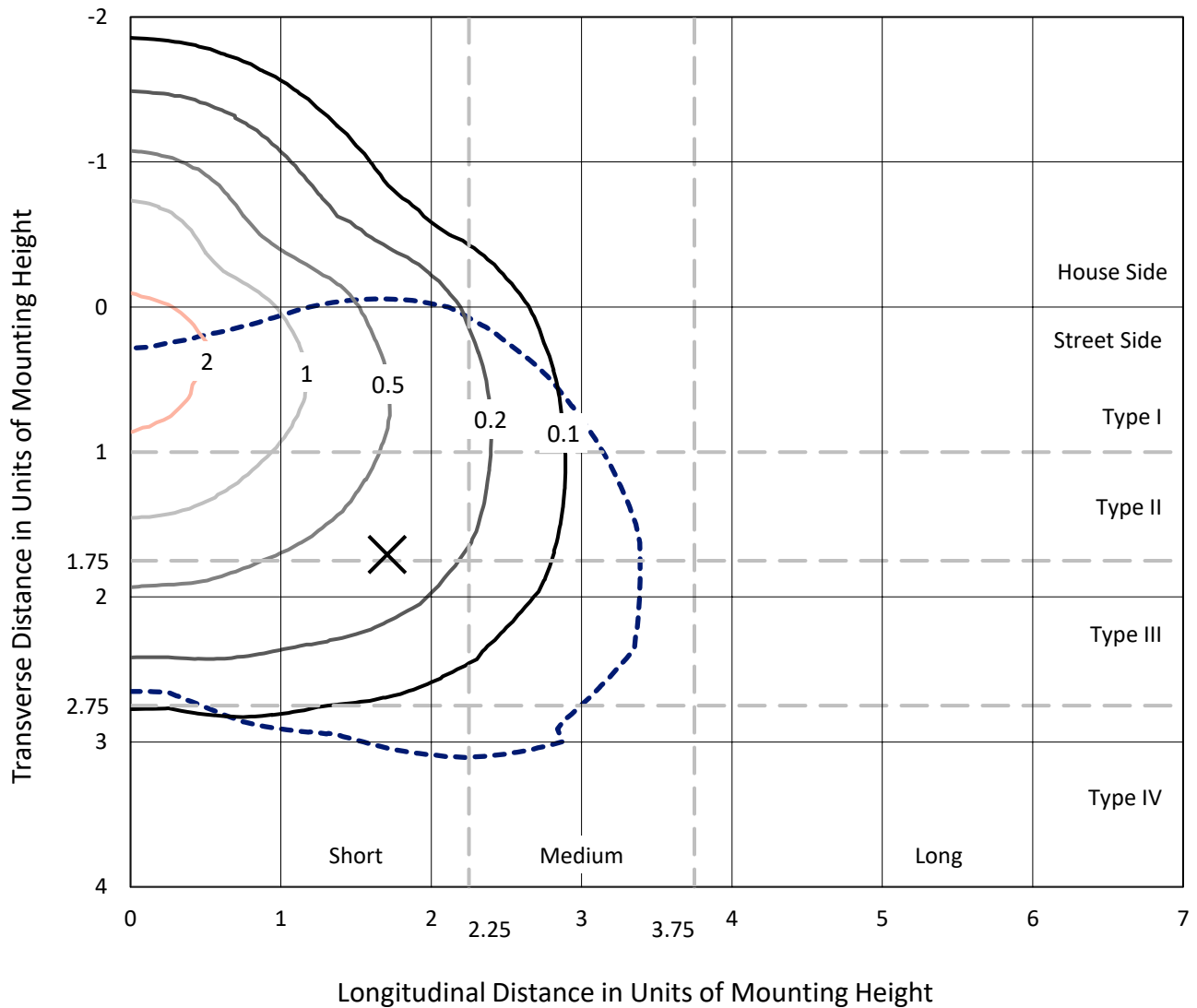
Input Watts (W): 63.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

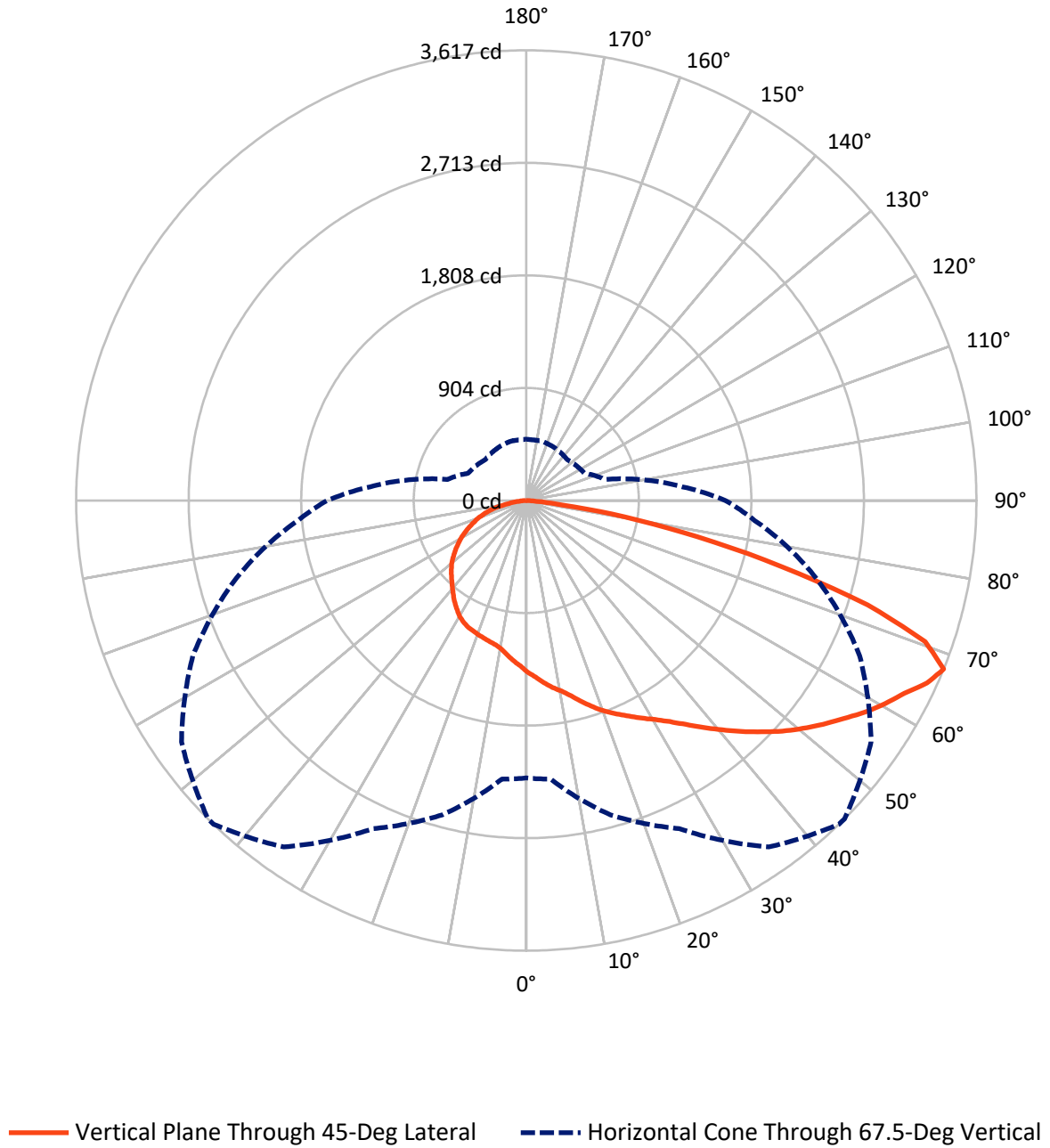
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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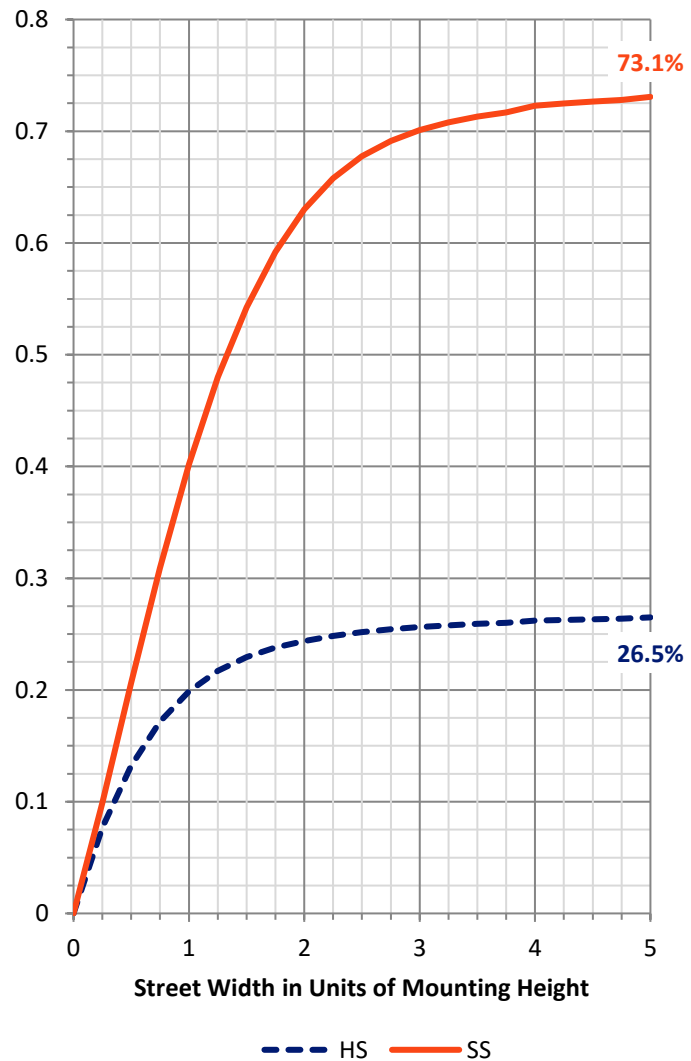
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2210.1	0.0	2210.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	6062.9	0.0	6062.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	8273.0	0.0	8273.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.6
10°-20°	408.1	4.9
20°-30°	704.4	8.5
30°-40°	1038.8	12.6
40°-50°	1407.3	17.0
50°-60°	1720.1	20.8
60°-70°	1774.0	21.4
70°-80°	971.7	11.7
80°-90°	116.5	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°	8273.0	100.0
0°-180°	8273.0	100.0



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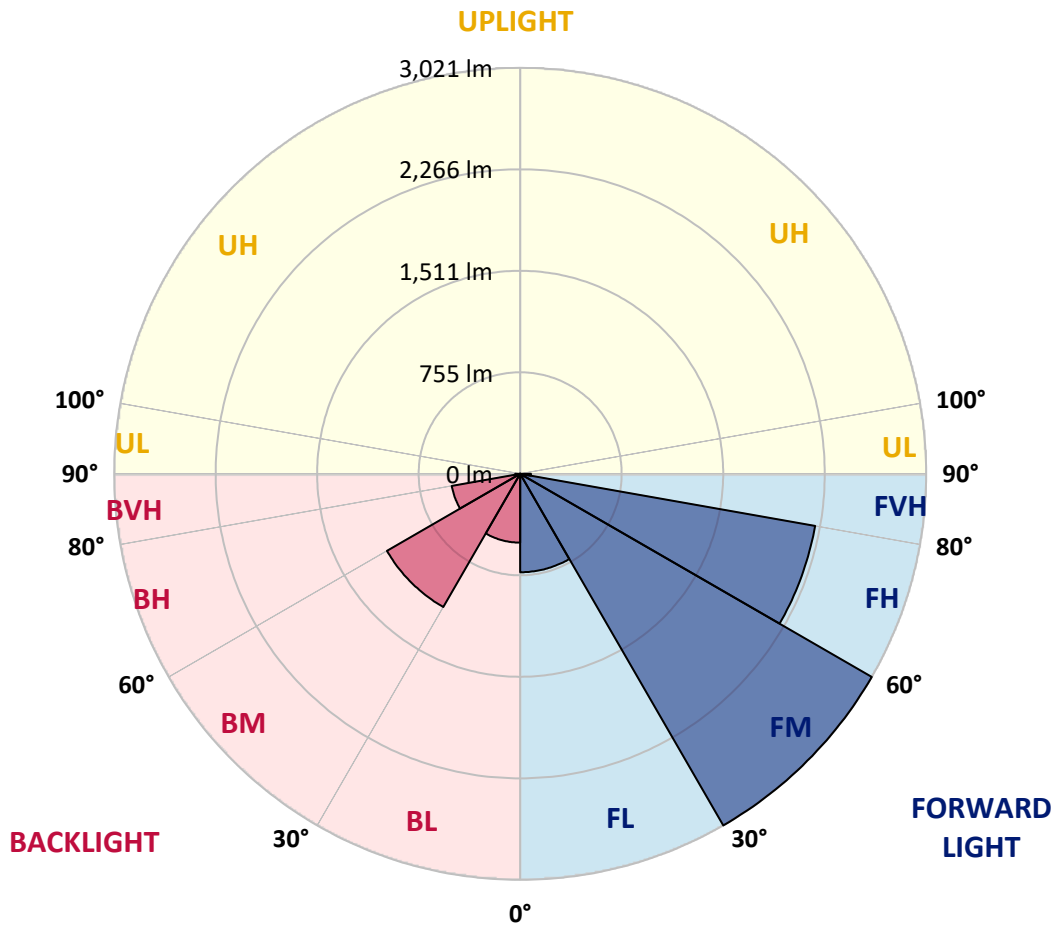
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	732.4	8.9			
FM (30°-60°)	3021.4	36.5			
FH (60°-80°)	2228.9	26.9			G2/5000
FVH (80°-90°)	80.2	1.0			G1/100
BL (0°-30°)	512.2	6.2	B2/1000		
BM (30°-60°)	1144.8	13.8	B2/2500		
BH (60°-80°)	516.8	6.2	B2/1000		G2/1000
BVH (80°-90°)	36.2	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°	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8
2.5°	1440.2	1438.9	1441.5	1432.7	1421.3	1420.1	1420.1	1412.5	1403.7	1386.1	1372.2
5°	1508.2	1505.7	1506.9	1494.3	1479.2	1471.7	1470.4	1454.1	1433.9	1406.2	1381.0
7.5°	1571.1	1568.6	1567.4	1553.5	1530.9	1518.3	1517.0	1493.1	1469.2	1426.4	1389.9
10°	1630.3	1627.8	1625.3	1606.4	1578.7	1559.8	1557.3	1527.1	1496.9	1444.0	1397.4
12.5°	1705.8	1700.8	1698.3	1675.6	1635.3	1615.2	1611.4	1571.1	1533.4	1469.2	1412.5
15°	1785.2	1781.4	1777.6	1756.2	1710.9	1684.4	1678.1	1627.8	1576.2	1501.9	1435.2
17.5°	1844.3	1840.5	1840.5	1821.7	1780.1	1749.9	1744.9	1684.4	1620.2	1532.1	1452.8
20°	1880.8	1877.1	1880.8	1869.5	1838.0	1812.8	1807.8	1741.1	1664.3	1559.8	1467.9
22.5°	1907.3	1903.5	1909.8	1904.8	1882.1	1867.0	1863.2	1797.7	1709.6	1588.8	1483.0
25°	1953.8	1953.8	1953.8	1945.0	1923.6	1918.6	1918.6	1861.9	1767.5	1626.5	1505.7
27.5°	2047.0	2042.0	2035.7	2010.5	1974.0	1972.7	1980.3	1927.4	1834.3	1675.6	1533.4
30°	2184.2	2181.7	2157.8	2104.9	2043.2	2036.9	2042.0	1997.9	1906.0	1727.2	1564.8
32.5°	2361.7	2352.9	2303.8	2224.5	2136.4	2107.4	2117.5	2070.9	1981.5	1780.1	1595.1
35°	2487.6	2490.1	2454.9	2383.1	2278.7	2201.9	2209.4	2152.8	2063.4	1839.3	1632.8
37.5°	2632.4	2641.2	2588.3	2534.2	2437.3	2306.3	2313.9	2237.1	2145.2	1913.6	1673.1
40°	2832.6	2815.0	2725.6	2661.4	2554.4	2415.9	2422.2	2331.5	2239.6	1984.1	1719.7
42.5°	3000.0	2968.5	2860.3	2778.4	2650.0	2531.7	2538.0	2433.5	2335.3	2062.1	1771.3
45°	3240.5	3153.6	2997.5	2957.2	2748.2	2645.0	2651.3	2541.8	2436.0	2145.2	1826.7
47.5°	3380.2	3241.7	3142.3	3120.9	2856.5	2762.1	2769.6	2656.3	2544.3	2239.6	1884.6
50°	3371.4	3282.0	3253.1	3200.2	2952.2	2871.6	2879.2	2774.7	2653.8	2332.8	1940.0
52.5°	3313.5	3329.9	3314.7	3226.6	3047.9	2977.4	2986.2	2891.7	2765.9	2419.6	1991.6
55°	3402.9	3414.2	3385.2	3269.4	3153.6	3083.1	3093.2	3015.1	2876.6	2496.4	2035.7
57.5°	3509.9	3469.6	3440.6	3345.0	3263.1	3197.7	3209.0	3141.0	2972.3	2558.1	2069.7
60°	3504.8	3420.5	3449.4	3350.0	3337.4	3303.4	3313.5	3244.2	3045.3	2603.5	2083.5
62.5°	3246.8	3201.4	3347.5	3313.5	3397.8	3397.8	3410.4	3307.2	3089.4	2622.3	2076.0
65°	2798.6	2801.1	3057.9	3198.9	3469.6	3527.5	3537.6	3346.2	3064.2	2566.9	2005.5
67.5°	2229.6	2245.9	2614.8	2908.1	3397.8	3615.6	3616.9	3381.5	2956.0	2410.8	1841.8
70°	1631.6	1644.2	2079.7	2436.0	3059.2	3420.5	3400.4	3282.0	2720.5	2138.9	1586.2
72.5°	1102.8	1114.1	1562.3	1870.8	2510.3	2913.1	2869.1	2900.6	2318.9	1757.5	1275.3
75°	741.5	755.4	1111.6	1338.2	1846.8	2211.9	2113.7	2196.8	1794.0	1330.7	930.3
77.5°	467.1	475.9	706.3	877.5	1261.4	1505.7	1407.5	1408.7	1033.6	716.3	499.8
80°	297.1	299.6	428.0	506.1	730.2	905.2	800.7	650.9	465.8	380.2	298.4
82.5°	172.5	168.7	255.6	285.8	347.5	343.7	284.5	269.4	203.9	190.1	152.3
85°	69.2	64.2	112.0	104.5	105.7	112.0	83.1	83.1	66.7	51.6	37.8
87.5°	13.8	13.8	15.1	13.8	13.8	15.1	11.3	11.3	10.1	10.1	10.1
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°	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8	1379.8
2.5°	1369.7	1367.2	1360.9	1344.5	1335.7	1330.7	1323.1	1320.6	1319.4	1320.6	1324.4
5°	1373.5	1364.7	1347.0	1320.6	1303.0	1291.7	1279.1	1274.0	1270.3	1270.3	1274.0
7.5°	1376.0	1362.2	1331.9	1292.9	1267.7	1250.1	1235.0	1228.7	1227.4	1231.2	1232.5
10°	1377.3	1357.1	1314.3	1265.2	1232.5	1209.8	1194.7	1190.9	1194.7	1202.3	1203.5
12.5°	1386.1	1358.4	1304.2	1246.3	1207.3	1184.6	1173.3	1173.3	1183.4	1197.2	1198.5
15°	1401.2	1367.2	1299.2	1231.2	1190.9	1170.8	1167.0	1173.3	1188.4	1209.8	1212.3
17.5°	1412.5	1372.2	1287.9	1211.1	1169.5	1157.0	1163.2	1178.4	1199.8	1228.7	1231.2
20°	1420.1	1372.2	1271.5	1187.2	1148.1	1145.6	1163.2	1187.2	1209.8	1243.8	1247.6
22.5°	1427.6	1369.7	1252.6	1158.2	1124.2	1131.8	1164.5	1194.7	1217.4	1253.9	1260.2
25°	1441.5	1373.5	1233.7	1129.3	1099.0	1120.4	1163.2	1199.8	1223.7	1261.4	1271.5
27.5°	1460.4	1382.3	1219.9	1102.8	1073.9	1102.8	1154.4	1198.5	1223.7	1260.2	1271.5
30°	1480.5	1392.4	1203.5	1073.9	1044.9	1077.6	1135.5	1184.6	1213.6	1247.6	1261.4
32.5°	1501.9	1403.7	1189.7	1042.4	1009.7	1043.6	1107.9	1163.2	1194.7	1226.2	1241.3
35°	1530.9	1423.8	1182.1	1017.2	978.2	1008.4	1072.6	1135.5	1169.5	1198.5	1216.1
37.5°	1566.1	1449.0	1178.4	992.0	944.2	969.4	1034.8	1101.6	1138.1	1162.0	1178.4
40°	1606.4	1480.5	1177.1	968.1	910.2	929.1	995.8	1062.5	1097.8	1116.7	1130.5
42.5°	1651.7	1515.7	1174.6	944.2	876.2	891.3	958.0	1023.5	1053.7	1070.1	1082.7
45°	1699.5	1551.0	1169.5	915.2	839.7	857.3	919.0	976.9	1008.4	1022.2	1036.1
47.5°	1747.4	1586.2	1159.5	882.5	807.0	823.3	877.5	927.8	953.0	965.6	979.4
50°	1794.0	1617.7	1135.5	844.7	773.0	788.1	829.6	863.6	882.5	892.6	906.4
52.5°	1835.5	1639.1	1101.6	800.7	739.0	746.5	774.2	803.2	818.3	819.6	832.1
55°	1870.8	1650.4	1052.5	755.4	702.5	703.7	718.8	741.5	747.8	742.8	751.6
57.5°	1890.9	1644.2	998.3	708.8	664.7	659.7	671.0	682.3	683.6	671.0	679.8
60°	1895.9	1615.2	927.8	662.2	626.9	613.1	616.9	614.4	611.8	606.8	614.4
62.5°	1870.8	1553.5	849.8	616.9	586.7	565.3	564.0	562.7	566.5	567.8	569.0
65°	1778.9	1437.7	756.6	570.3	543.9	514.9	513.6	528.7	533.8	526.2	528.7
67.5°	1601.3	1260.2	654.6	516.2	489.7	464.5	474.6	483.4	492.2	489.7	492.2
70°	1349.6	1034.8	561.5	455.7	430.6	416.7	428.0	435.6	436.8	434.3	436.8
72.5°	1061.3	808.2	474.6	394.0	371.4	365.1	378.9	385.2	396.6	401.6	402.9
75°	766.7	596.7	389.0	327.3	308.4	308.4	321.0	332.4	342.4	336.1	332.4
77.5°	428.0	356.3	279.5	225.3	229.1	246.7	251.8	264.4	274.4	273.2	270.7
80°	259.3	222.8	188.8	146.0	144.8	158.6	191.4	212.8	217.8	206.5	205.2
82.5°	134.7	117.1	100.7	81.8	90.6	105.7	110.8	133.4	147.3	142.3	148.6
85°	34.0	32.7	36.5	37.8	46.6	51.6	56.7	66.7	44.1	21.4	21.4
87.5°	10.1	10.1	12.6	12.6	16.4	20.1	18.9	18.9	10.1	1.3	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)