

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: P800121

Luminaire Tested: **ARCH2-80-722-U-T4W**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P800121  
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: ARCH2-80-722-U-T4W  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

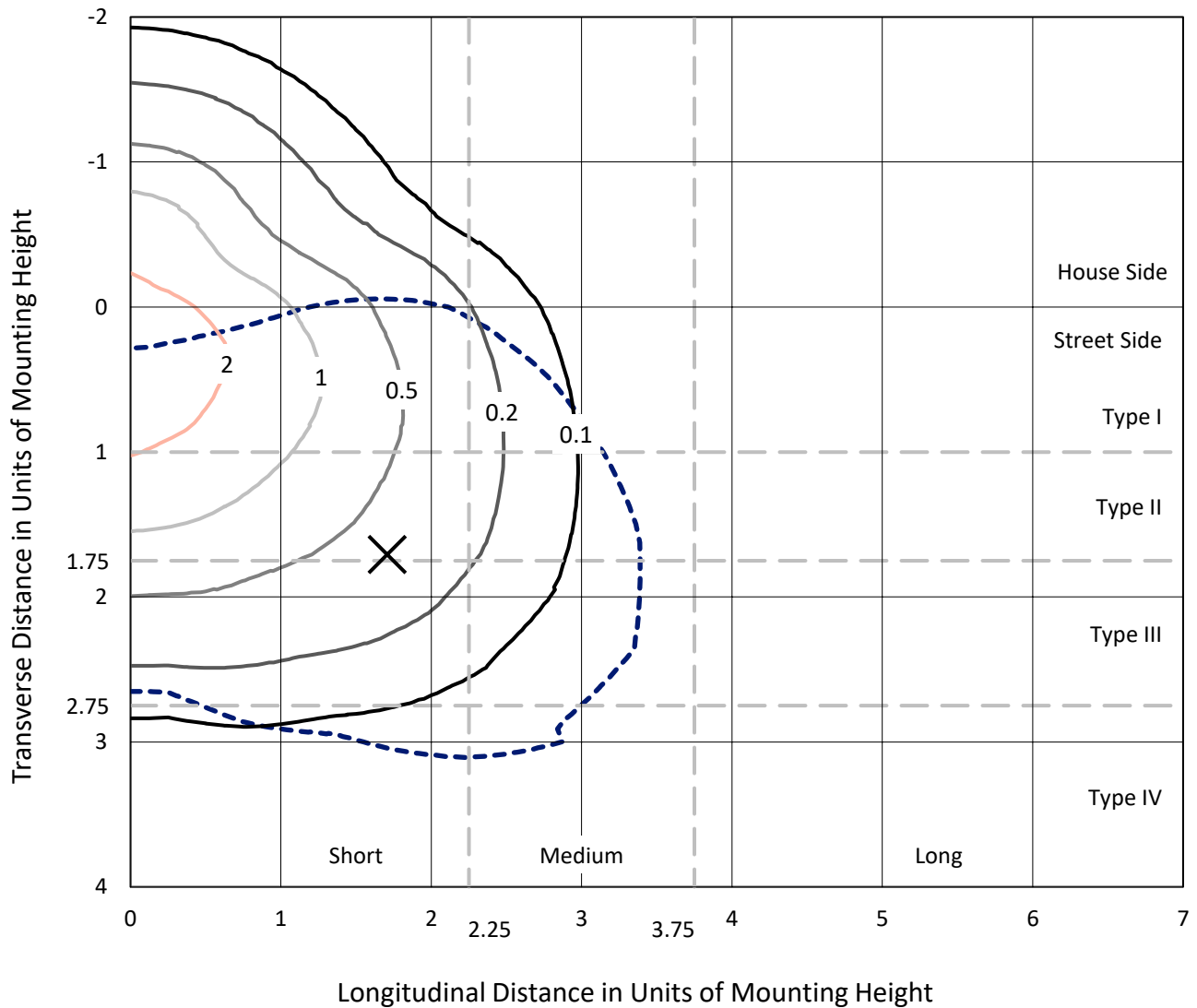
Lumens per Lamp: N/A  
Luminaire Lumens: 9278 lumens  
Efficiency: N/A  
Efficacy: 110.1 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 84.3  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

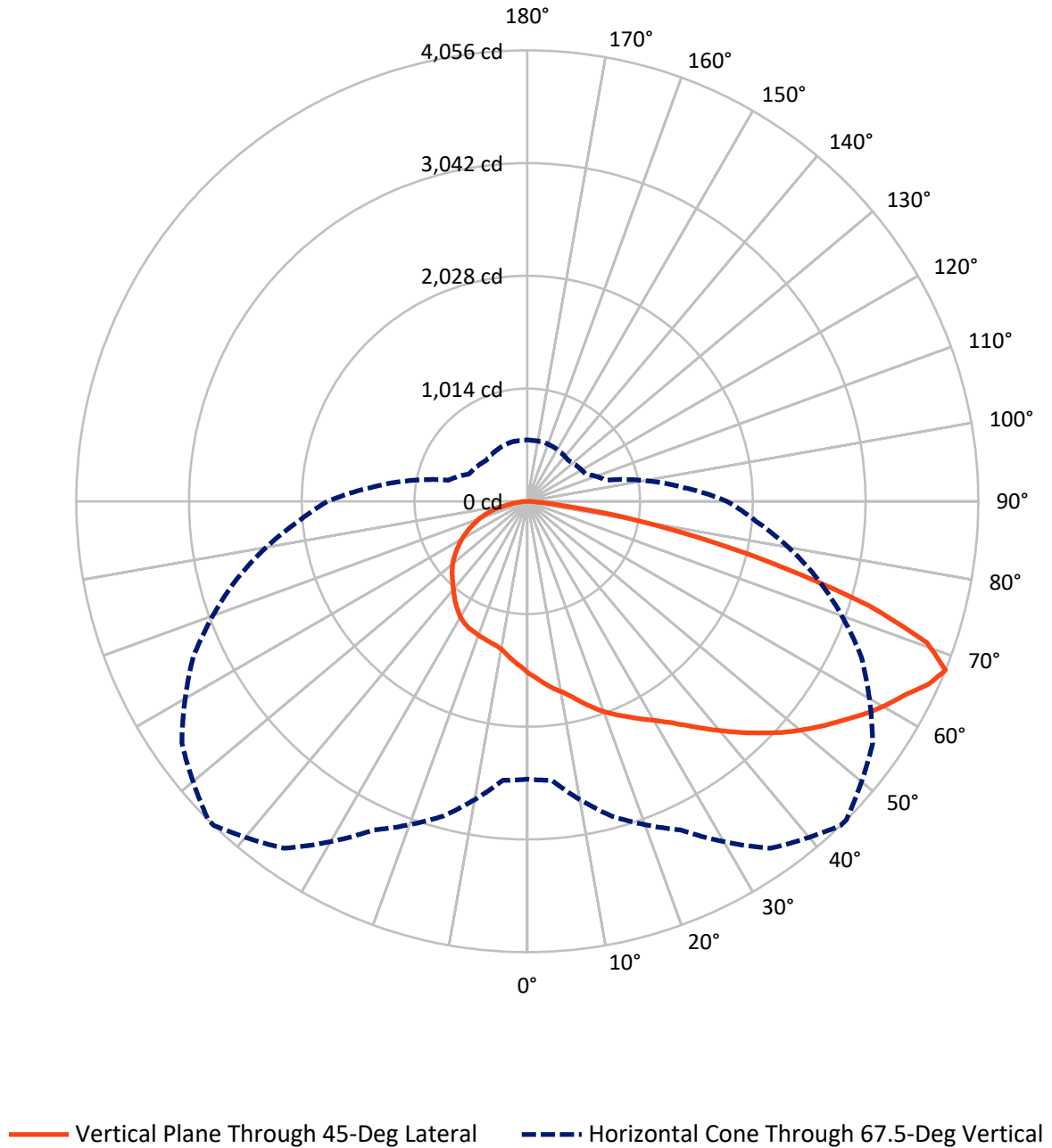
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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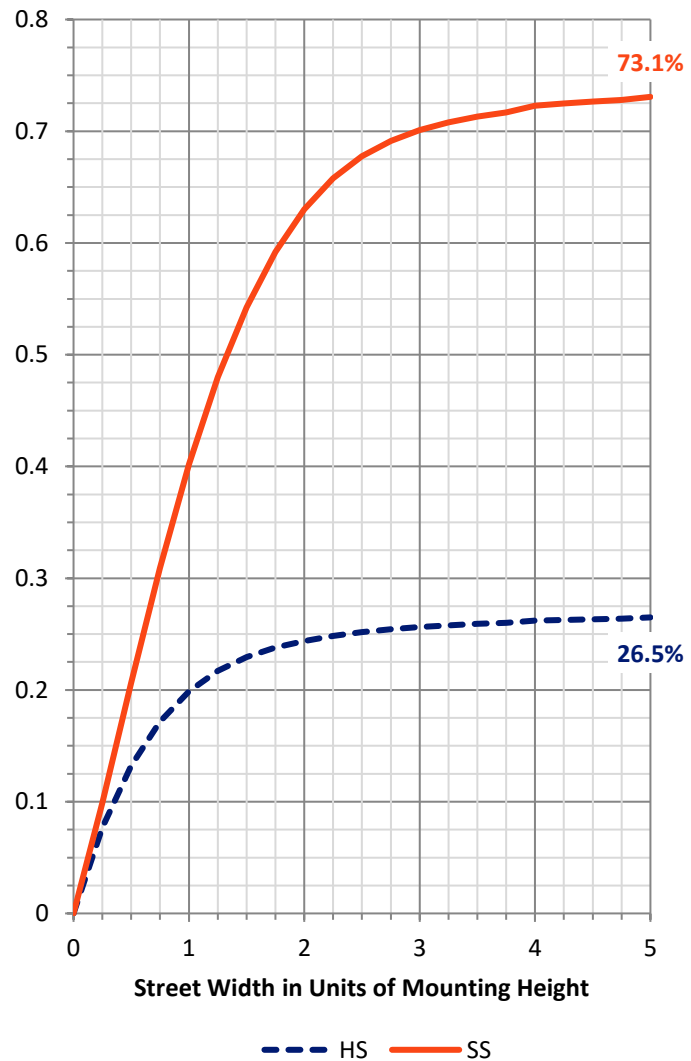
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2478.6	0.0	2478.6
	% Fixture	26.7	0.0	26.7
<b>Street Side</b>	Lumens	6799.4	0.0	6799.4
	% Fixture	73.3	0.0	73.3
<b>Total</b>	Lumens	9278.0	0.0	9278.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.2	1.6
10°-20°	457.7	4.9
20°-30°	790.0	8.5
30°-40°	1165.0	12.6
40°-50°	1578.3	17.0
50°-60°	1929.0	20.8
60°-70°	1989.5	21.4
70°-80°	1089.7	11.7
80°-90°	130.6	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°	9278.0	100.0
0°-180°	9278.0	100.0

**Coefficient of Utilization**



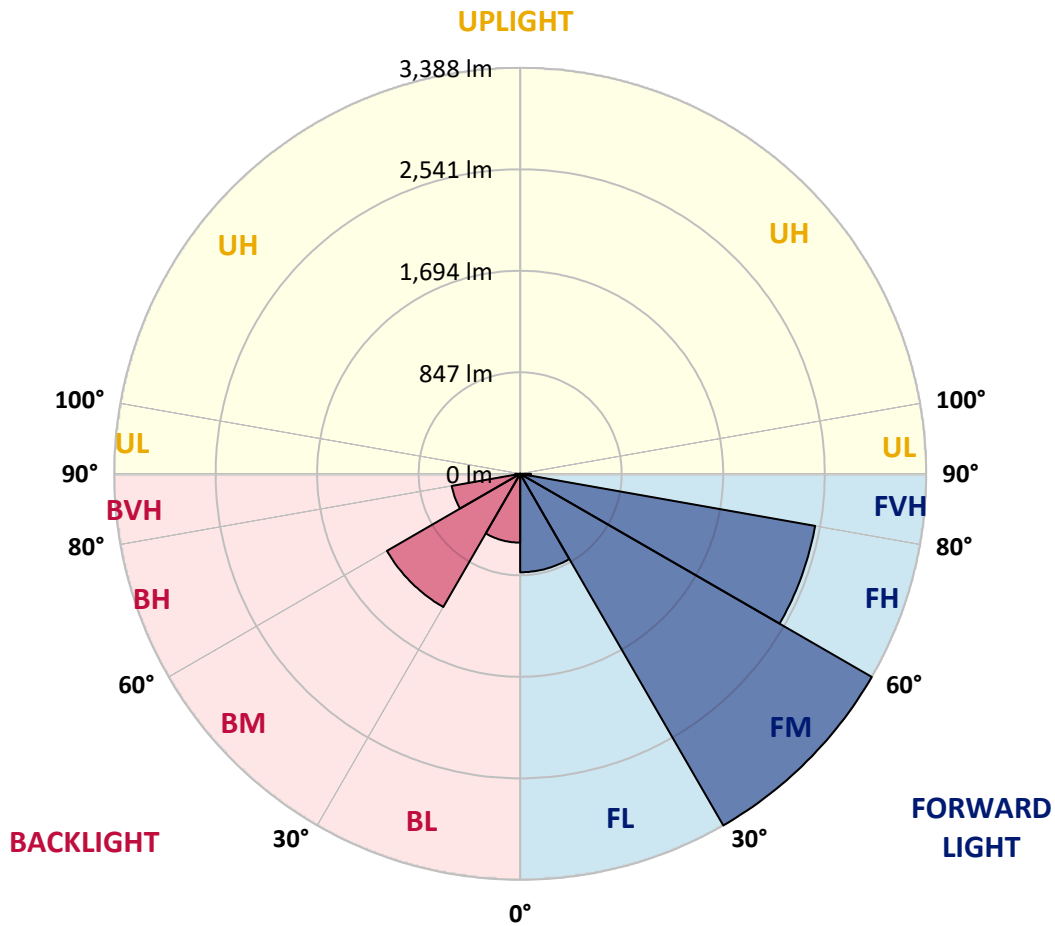
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	821.4	8.9			
FM (30°-60°)	3388.4	36.5			
FH (60°-80°)	2499.6	26.9			G2/5000
FVH (80°-90°)	90.0	1.0			G1/100
BL (0°-30°)	574.5	6.2	B2/1000		
BM (30°-60°)	1283.9	13.8	B2/2500		
BH (60°-80°)	579.6	6.2	B2/1000		G2/1000
BVH (80°-90°)	40.6	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°	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4
2.5°	1615.2	1613.8	1616.6	1606.7	1594.0	1592.6	1592.6	1584.1	1574.2	1554.5	1538.9
5°	1691.4	1688.6	1690.0	1675.9	1658.9	1650.5	1649.0	1630.7	1608.1	1577.0	1548.8
7.5°	1762.0	1759.2	1757.8	1742.2	1716.8	1702.7	1701.3	1674.5	1647.6	1599.6	1558.7
10°	1828.4	1825.5	1822.7	1801.5	1770.5	1749.3	1746.5	1712.6	1678.7	1619.4	1567.2
12.5°	1913.1	1907.4	1904.6	1879.2	1834.0	1811.4	1807.2	1762.0	1719.6	1647.6	1584.1
15°	2002.0	1997.8	1993.5	1969.5	1918.7	1889.1	1882.0	1825.5	1767.6	1684.3	1609.5
17.5°	2068.4	2064.1	2064.1	2043.0	1996.4	1962.5	1956.8	1889.1	1817.1	1718.2	1629.3
20°	2109.3	2105.1	2109.3	2096.6	2061.3	2033.1	2027.4	1952.6	1866.5	1749.3	1646.2
22.5°	2139.0	2134.7	2141.8	2136.1	2110.7	2093.8	2089.5	2016.1	1917.3	1781.8	1663.2
25°	2191.2	2191.2	2191.2	2181.3	2157.3	2151.7	2151.7	2088.1	1982.2	1824.1	1688.6
27.5°	2295.7	2290.0	2283.0	2254.7	2213.8	2212.4	2220.8	2161.6	2057.1	1879.2	1719.6
30°	2449.6	2446.7	2419.9	2360.6	2291.4	2284.4	2290.0	2240.6	2137.6	1937.1	1754.9
32.5°	2648.6	2638.8	2583.7	2494.7	2395.9	2363.4	2374.7	2322.5	2222.3	1996.4	1788.8
35°	2789.8	2792.7	2753.1	2672.6	2555.5	2469.3	2477.8	2414.3	2314.0	2062.7	1831.2
37.5°	2952.2	2962.1	2902.8	2842.1	2733.4	2586.5	2595.0	2508.9	2405.8	2146.0	1876.4
40°	3176.7	3156.9	3056.7	2984.7	2864.7	2709.4	2716.4	2614.8	2511.7	2225.1	1928.6
42.5°	3364.5	3329.2	3207.7	3116.0	2972.0	2839.2	2846.3	2729.1	2619.0	2312.6	1986.5
45°	3634.1	3536.7	3361.6	3316.5	3082.1	2966.3	2973.4	2850.5	2731.9	2405.8	2048.6
47.5°	3790.8	3635.5	3524.0	3500.0	3203.5	3097.6	3106.1	2979.0	2853.4	2511.7	2113.5
50°	3781.0	3680.7	3648.2	3588.9	3310.8	3220.4	3228.9	3111.7	2976.2	2616.2	2175.7
52.5°	3716.0	3734.4	3717.4	3618.6	3418.1	3339.0	3348.9	3243.0	3101.8	2713.6	2233.6
55°	3816.2	3829.0	3796.5	3666.6	3536.7	3457.6	3468.9	3381.4	3226.1	2799.7	2283.0
57.5°	3936.3	3891.1	3858.6	3751.3	3659.5	3586.1	3598.8	3522.6	3333.4	2868.9	2321.1
60°	3930.6	3836.0	3868.5	3756.9	3742.8	3704.7	3716.0	3638.4	3415.3	2919.7	2336.6
62.5°	3641.2	3590.4	3754.1	3716.0	3810.6	3810.6	3824.7	3708.9	3464.7	2940.9	2328.2
65°	3138.6	3141.4	3429.4	3587.5	3891.1	3956.0	3967.3	3752.7	3436.5	2878.8	2249.1
67.5°	2500.4	2518.8	2932.4	3261.4	3810.6	4054.9	4056.3	3792.2	3315.0	2703.7	2065.5
70°	1829.8	1843.9	2332.4	2731.9	3430.8	3836.0	3813.4	3680.7	3051.0	2398.7	1778.9
72.5°	1236.8	1249.5	1752.1	2098.0	2815.2	3267.0	3217.6	3252.9	2600.6	1971.0	1430.2
75°	831.6	847.1	1246.7	1500.8	2071.2	2480.6	2370.5	2463.7	2011.9	1492.3	1043.4
77.5°	523.8	533.7	792.1	984.1	1414.7	1688.6	1578.5	1579.9	1159.1	803.3	560.5
80°	333.2	336.0	480.0	567.6	818.9	1015.1	897.9	729.9	522.4	426.4	334.6
82.5°	193.4	189.2	286.6	320.5	389.7	385.4	319.1	302.1	228.7	213.2	170.8
85°	77.7	72.0	125.7	117.2	118.6	125.7	93.2	93.2	74.8	57.9	42.4
87.5°	15.5	15.5	16.9	15.5	15.5	16.9	12.7	12.7	11.3	11.3	11.3
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°	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4	1547.4
2.5°	1536.1	1533.3	1526.2	1507.9	1498.0	1492.3	1483.9	1481.0	1479.6	1481.0	1485.3
5°	1540.3	1530.5	1510.7	1481.0	1461.3	1448.6	1434.4	1428.8	1424.6	1424.6	1428.8
7.5°	1543.2	1527.6	1493.7	1450.0	1421.7	1402.0	1385.0	1378.0	1376.6	1380.8	1382.2
10°	1544.6	1522.0	1474.0	1418.9	1382.2	1356.8	1339.9	1335.6	1339.9	1348.3	1349.7
12.5°	1554.5	1523.4	1462.7	1397.7	1354.0	1328.6	1315.9	1315.9	1327.1	1342.7	1344.1
15°	1571.4	1533.3	1457.0	1380.8	1335.6	1313.0	1308.8	1315.9	1332.8	1356.8	1359.6
17.5°	1584.1	1538.9	1444.3	1358.2	1311.6	1297.5	1304.6	1321.5	1345.5	1378.0	1380.8
20°	1592.6	1538.9	1426.0	1331.4	1287.6	1284.8	1304.6	1331.4	1356.8	1394.9	1399.1
22.5°	1601.0	1536.1	1404.8	1298.9	1260.8	1269.3	1306.0	1339.9	1365.3	1406.2	1413.3
25°	1616.6	1540.3	1383.6	1266.4	1232.6	1256.6	1304.6	1345.5	1372.3	1414.7	1426.0
27.5°	1637.8	1550.2	1368.1	1236.8	1204.3	1236.8	1294.7	1344.1	1372.3	1413.3	1426.0
30°	1660.3	1561.5	1349.7	1204.3	1171.8	1208.5	1273.5	1328.6	1361.0	1399.1	1414.7
32.5°	1684.3	1574.2	1334.2	1169.0	1132.3	1170.4	1242.4	1304.6	1339.9	1375.1	1392.1
35°	1716.8	1596.8	1325.7	1140.8	1097.0	1130.9	1202.9	1273.5	1311.6	1344.1	1363.9
37.5°	1756.3	1625.0	1321.5	1112.5	1058.9	1087.1	1160.5	1235.4	1276.3	1303.1	1321.5
40°	1801.5	1660.3	1320.1	1085.7	1020.8	1041.9	1116.8	1191.6	1231.1	1252.3	1267.8
42.5°	1852.4	1699.9	1317.3	1058.9	982.7	999.6	1074.4	1147.8	1181.7	1200.1	1214.2
45°	1906.0	1739.4	1311.6	1026.4	941.7	961.5	1030.7	1095.6	1130.9	1146.4	1162.0
47.5°	1959.7	1778.9	1300.3	989.7	905.0	923.4	984.1	1040.5	1068.8	1082.9	1098.4
50°	2011.9	1814.2	1273.5	947.4	866.9	883.8	930.4	968.5	989.7	1001.0	1016.5
52.5°	2058.5	1838.2	1235.4	897.9	828.8	837.2	868.3	900.8	917.7	919.1	933.2
55°	2098.0	1850.9	1180.3	847.1	787.8	789.2	806.2	831.6	838.6	833.0	842.9
57.5°	2120.6	1843.9	1119.6	794.9	745.5	739.8	752.5	765.2	766.6	752.5	762.4
60°	2126.3	1811.4	1040.5	742.6	703.1	687.6	691.8	689.0	686.2	680.5	689.0
62.5°	2098.0	1742.2	953.0	691.8	657.9	633.9	632.5	631.1	635.3	636.7	638.2
65°	1995.0	1612.3	848.5	639.6	609.9	577.4	576.0	593.0	598.6	590.2	593.0
67.5°	1795.9	1413.3	734.2	578.9	549.2	521.0	532.3	542.2	552.0	549.2	552.0
70°	1513.5	1160.5	629.7	511.1	482.9	467.3	480.0	488.5	489.9	487.1	489.9
72.5°	1190.2	906.4	532.3	441.9	416.5	409.4	425.0	432.0	444.7	450.4	451.8
75°	859.8	669.2	436.3	367.1	345.9	345.9	360.0	372.7	384.0	377.0	372.7
77.5°	480.0	399.6	313.4	252.7	257.0	276.7	282.4	296.5	307.8	306.4	303.5
80°	290.8	249.9	211.8	163.8	162.4	177.9	214.6	238.6	244.3	231.5	230.1
82.5°	151.1	131.3	112.9	91.8	101.7	118.6	124.2	149.7	165.2	159.5	166.6
85°	38.1	36.7	40.9	42.4	52.2	57.9	63.5	74.8	49.4	24.0	24.0
87.5°	11.3	11.3	14.1	14.1	18.4	22.6	21.2	21.2	11.3	1.4	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)