

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: P799173

Luminaire Tested: **ARCH1-60-750-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-60-750-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1640mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

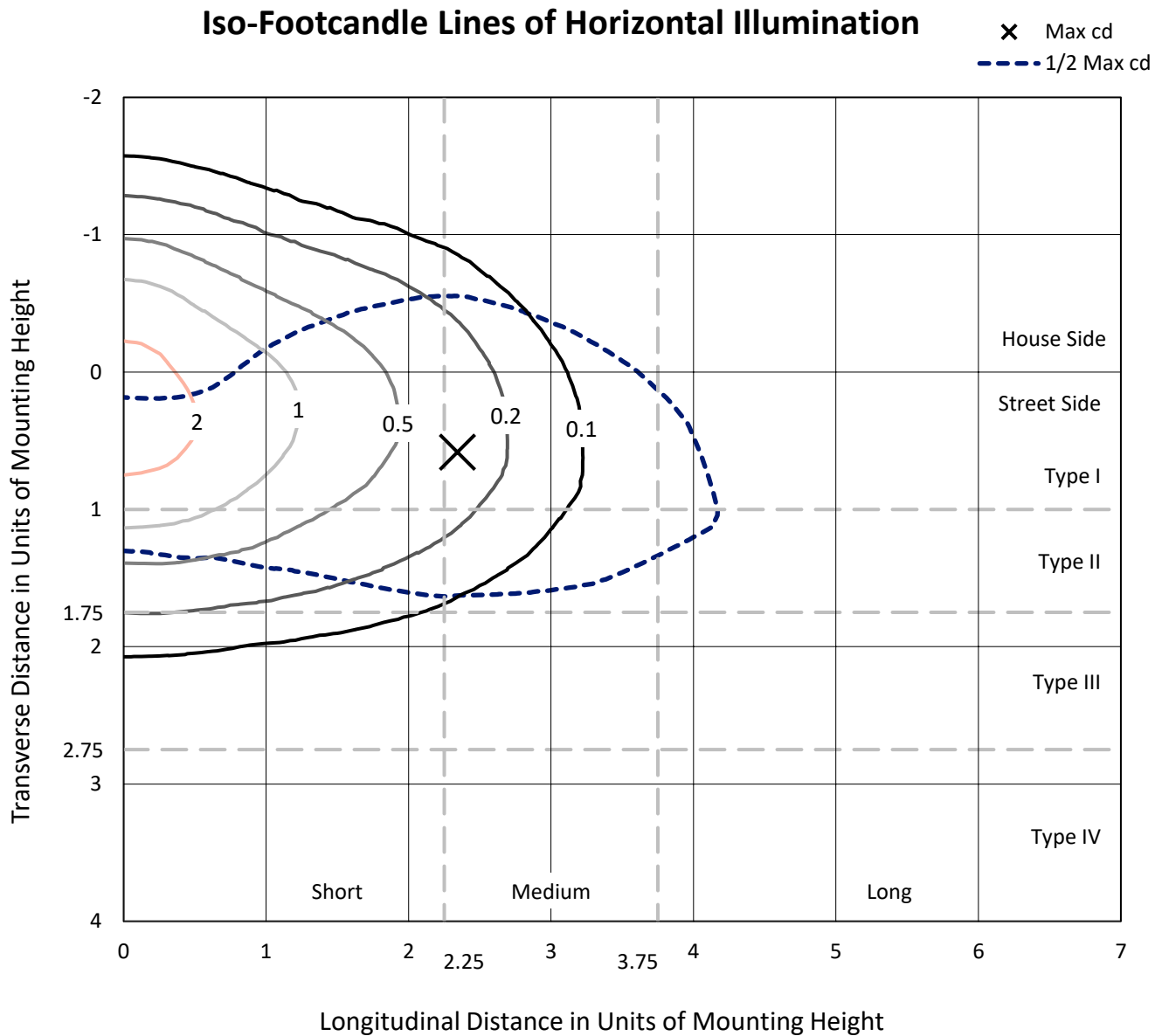
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7400 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 60
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



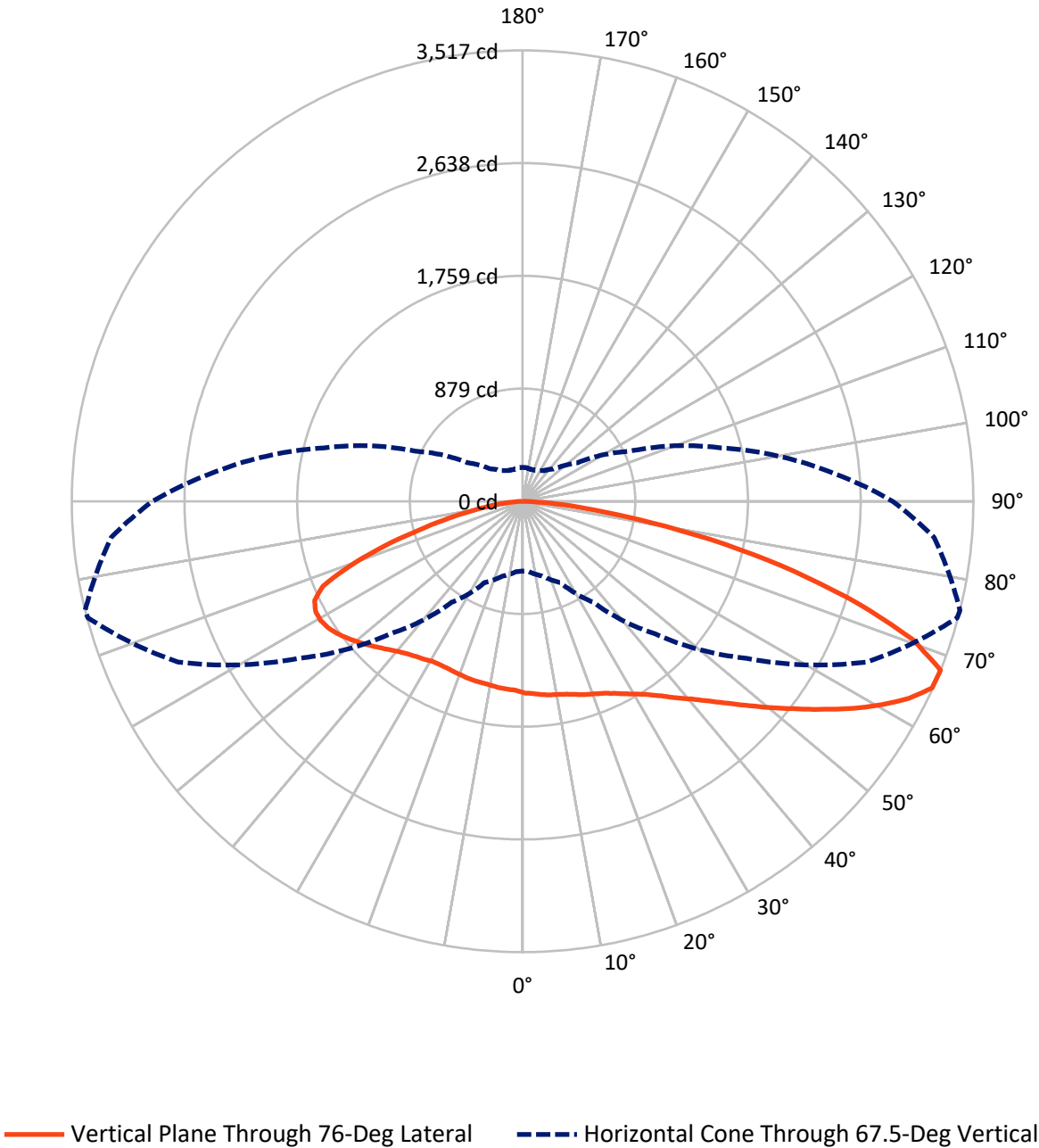
REPORT NUMBER: P799173
CATALOG NUMBER: ARCH1-60-750-U-T2U



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Medium - N/A

REPORT NUMBER: P799173
CATALOG NUMBER: ARCH1-60-750-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P799173

CATALOG NUMBER: ARCH1-60-750-U-T2U

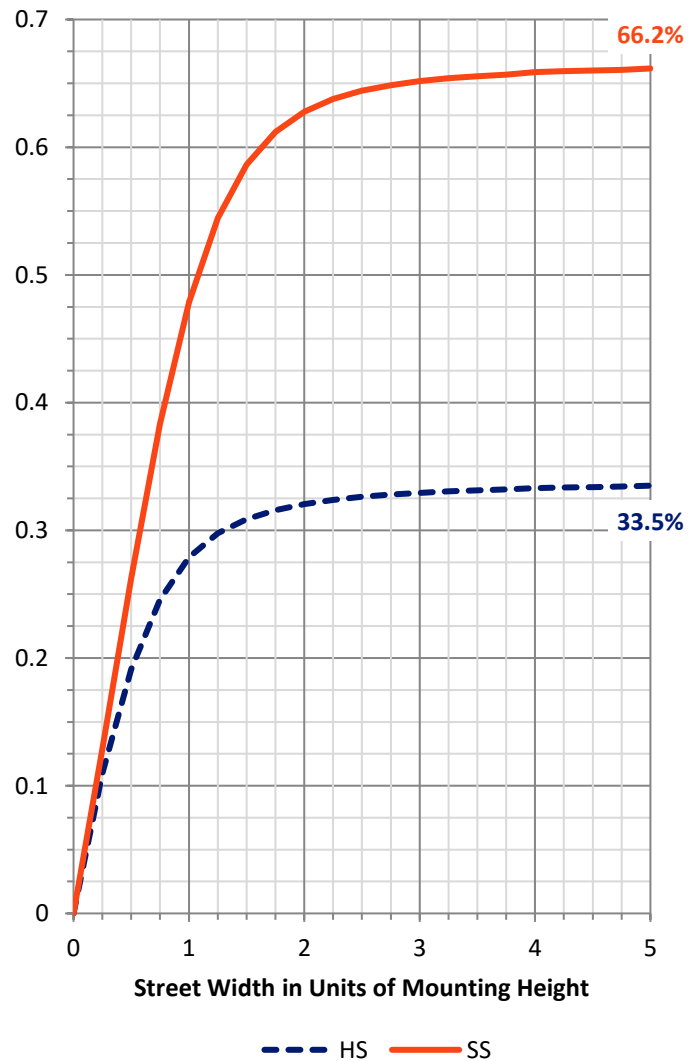
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2500.5	0.0	2500.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	4899.5	0.0	4899.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	7400.0	0.0	7400.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.1	1.9
10°-20°	440.7	6.0
20°-30°	748.7	10.1
30°-40°	1065.3	14.4
40°-50°	1345.4	18.2
50°-60°	1456.7	19.7
60°-70°	1354.9	18.3
70°-80°	727.7	9.8
80°-90°	116.6	1.6
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°	7400.0	100.0
0°-180°	7400.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799173

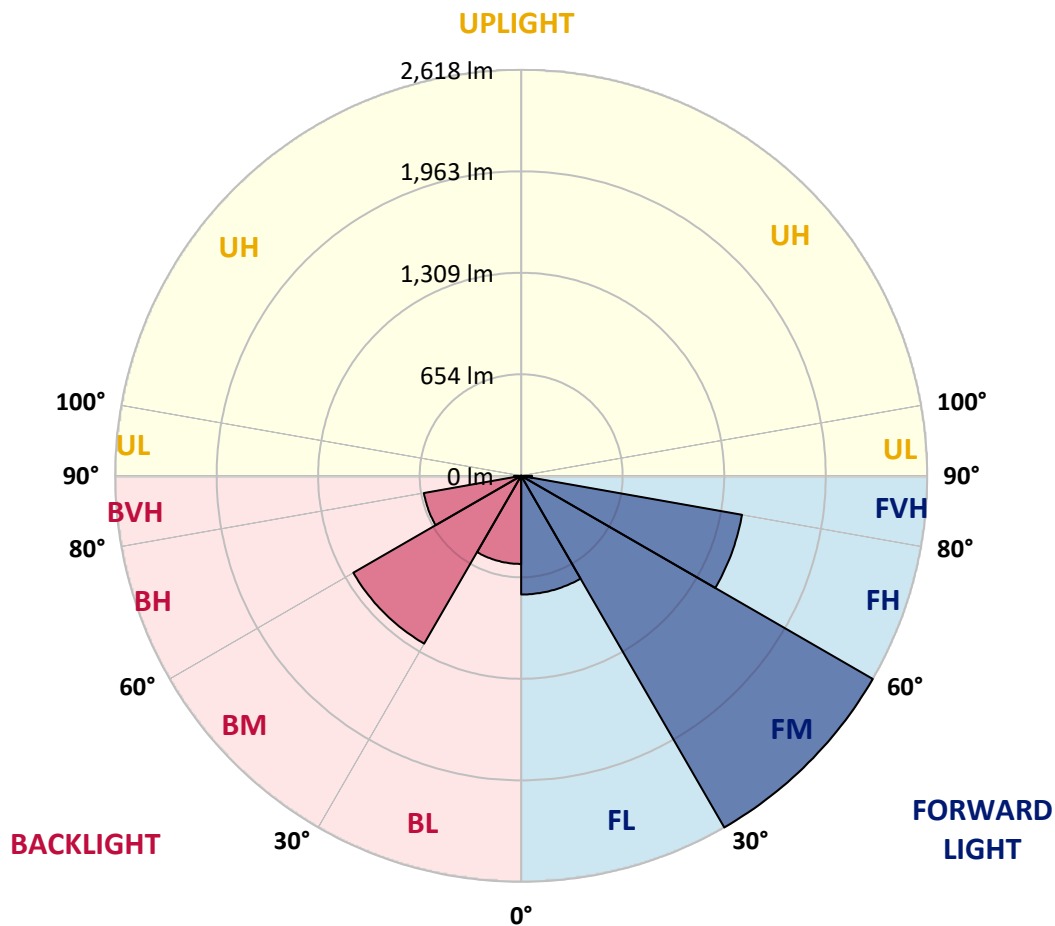
CATALOG NUMBER: ARCH1-60-750-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	765.2	10.3			
FM	(30°-60°)	2617.8	35.4			
FH	(60°-80°)	1445.9	19.5			G1/1800
FVH	(80°-90°)	70.5	1.0			G1/100
BL	(0°-30°)	568.2	7.7	B2/1000		
BM	(30°-60°)	1249.5	16.9	B2/2500		
BH	(60°-80°)	636.7	8.6	B2/1000		G2/1000
BVH	(80°-90°)	46.1	0.6			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 II Medium



REPORT NUMBER: P799173

CATALOG NUMBER: ARCH1-60-750-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8
2.5°	1540.1	1537.4	1526.4	1527.8	1527.8	1526.4	1509.9	1503.0	1503.0	1501.7	1486.5
5°	1595.1	1591.0	1578.6	1575.8	1570.3	1563.5	1537.4	1522.3	1515.4	1514.0	1493.4
7.5°	1659.6	1654.2	1639.0	1630.8	1617.1	1599.2	1566.2	1542.9	1526.4	1525.0	1496.2
10°	1724.2	1718.7	1700.9	1685.8	1666.5	1637.7	1595.1	1560.7	1534.6	1531.9	1497.5
12.5°	1801.2	1795.7	1773.7	1754.4	1725.6	1687.1	1630.8	1584.1	1548.4	1544.2	1501.7
15°	1882.2	1874.0	1852.0	1830.0	1794.3	1744.8	1677.5	1615.7	1570.3	1563.5	1514.0
17.5°	1949.5	1938.5	1920.7	1898.7	1858.9	1801.2	1724.2	1647.3	1591.0	1585.5	1526.4
20°	2007.2	1999.0	1979.8	1959.2	1916.6	1853.4	1768.2	1678.9	1610.2	1603.3	1536.0
22.5°	2062.2	2051.2	2040.2	2025.1	1978.4	1908.3	1819.0	1717.4	1634.9	1626.7	1548.4
25°	2125.4	2113.0	2108.9	2100.7	2045.7	1974.3	1880.8	1765.4	1669.3	1659.6	1570.3
27.5°	2203.7	2190.0	2181.7	2181.7	2115.8	2041.6	1946.8	1821.8	1709.1	1700.9	1597.8
30°	2286.1	2269.7	2257.3	2257.3	2183.1	2108.9	2011.4	1878.1	1754.4	1744.8	1633.5
32.5°	2359.0	2342.5	2328.7	2327.4	2250.4	2176.2	2078.7	1939.9	1809.4	1797.0	1677.5
35°	2415.3	2400.2	2387.8	2390.6	2317.7	2244.9	2154.2	2022.4	1878.1	1864.4	1735.2
37.5°	2449.6	2444.1	2437.3	2446.9	2379.6	2310.9	2232.6	2102.0	1956.4	1944.0	1806.7
40°	2467.5	2463.4	2490.8	2503.2	2431.8	2369.9	2310.9	2184.5	2041.6	2027.8	1889.1
42.5°	2493.6	2527.9	2538.9	2536.2	2470.2	2415.3	2382.3	2273.8	2141.9	2129.5	1988.0
45°	2400.2	2391.9	2452.4	2485.4	2473.0	2444.1	2449.6	2380.9	2258.7	2246.3	2102.0
47.5°	2275.1	2264.2	2298.5	2379.6	2427.6	2455.1	2510.1	2492.2	2393.3	2382.3	2235.3
50°	2011.4	2026.5	2154.2	2262.8	2357.6	2452.4	2560.9	2611.7	2541.7	2530.7	2378.2
52.5°	1718.7	1733.8	1867.1	2117.2	2272.4	2431.8	2598.0	2731.3	2702.4	2690.1	2530.7
55°	1505.8	1538.7	1689.9	1871.2	2151.5	2367.2	2620.0	2853.6	2875.5	2864.5	2696.9
57.5°	1294.2	1318.9	1433.0	1593.7	1986.6	2254.5	2618.6	2967.6	3056.9	3045.9	2865.9
60°	1045.5	1077.1	1167.8	1340.9	1766.8	2119.9	2580.2	3056.9	3231.4	3223.1	3029.4
62.5°	875.2	884.8	949.4	1099.1	1483.8	1949.5	2493.6	3105.0	3389.4	3383.9	3176.4
65°	704.8	706.2	765.3	890.3	1210.4	1738.0	2346.6	3087.1	3508.9	3511.6	3282.2
67.5°	544.1	550.9	604.5	699.3	961.7	1463.2	2136.4	2966.2	3510.3	3517.1	3221.8
70°	376.4	381.9	463.0	555.0	743.3	1166.4	1852.0	2646.1	3221.8	3227.2	2887.9
72.5°	265.2	267.9	354.5	443.8	581.2	879.3	1397.2	2188.6	2746.4	2750.5	2429.0
75°	197.8	200.6	250.0	336.6	445.1	608.6	954.8	1676.1	2194.1	2194.1	1917.9
77.5°	140.1	141.5	162.1	232.2	296.8	410.8	574.3	1097.7	1610.2	1612.9	1397.2
80°	94.8	96.2	105.8	156.6	185.5	222.6	311.9	575.7	1015.3	1019.4	887.5
82.5°	49.5	52.2	59.1	79.7	93.4	123.6	160.7	292.6	561.9	572.9	533.1
85°	19.2	19.2	22.0	26.1	34.3	48.1	74.2	111.3	254.2	262.4	234.9
87.5°	6.9	6.9	8.2	8.2	9.6	11.0	12.4	16.5	28.9	28.9	27.5
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: P799173

CATALOG NUMBER: ARCH1-60-750-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8	1494.8
2.5°	1481.0	1481.0	1474.2	1476.9	1475.5	1472.8	1470.1	1474.2	1470.1	1460.4	1459.1
5°	1483.8	1481.0	1470.1	1468.7	1464.6	1459.1	1452.2	1454.9	1448.1	1439.8	1438.5
7.5°	1485.2	1479.7	1464.6	1459.1	1450.8	1439.8	1428.8	1428.8	1419.2	1411.0	1409.6
10°	1482.4	1475.5	1454.9	1444.0	1428.8	1412.4	1397.2	1393.1	1382.1	1372.5	1372.5
12.5°	1483.8	1474.2	1448.1	1430.2	1409.6	1389.0	1369.8	1364.3	1354.6	1345.0	1343.7
15°	1492.0	1478.3	1445.3	1422.0	1391.7	1368.4	1347.8	1343.7	1335.4	1328.5	1328.5
17.5°	1500.3	1482.4	1441.2	1408.2	1371.1	1345.0	1325.8	1325.8	1320.3	1316.2	1316.2
20°	1504.4	1483.8	1433.0	1389.0	1346.4	1318.9	1301.1	1303.8	1302.4	1301.1	1301.1
22.5°	1514.0	1486.5	1426.1	1371.1	1320.3	1291.4	1275.0	1279.1	1277.7	1277.7	1279.1
25°	1529.1	1493.4	1420.6	1354.6	1295.6	1264.0	1246.1	1248.9	1248.9	1248.9	1248.9
27.5°	1549.7	1507.1	1419.2	1339.5	1270.8	1235.1	1213.1	1213.1	1207.6	1209.0	1210.4
30°	1581.3	1533.3	1422.0	1325.8	1244.7	1199.4	1173.3	1169.2	1167.8	1170.5	1171.9
32.5°	1619.8	1569.0	1438.5	1316.2	1217.3	1159.6	1126.6	1125.2	1121.1	1121.1	1121.1
35°	1667.9	1603.3	1453.6	1314.8	1189.8	1117.0	1081.2	1077.1	1067.5	1063.4	1063.4
37.5°	1729.7	1656.9	1471.4	1305.2	1166.4	1075.7	1033.2	1019.4	1008.4	1007.1	1007.1
40°	1805.3	1717.4	1497.5	1294.2	1141.7	1033.2	976.8	953.5	954.8	960.3	960.3
42.5°	1894.6	1791.5	1530.5	1288.7	1106.0	989.2	910.9	883.4	893.0	898.5	899.9
45°	1999.0	1879.5	1567.6	1281.8	1073.0	939.7	840.8	806.5	810.6	812.0	813.3
47.5°	2119.9	1977.0	1606.1	1276.3	1035.9	877.9	763.9	718.5	717.2	708.9	711.7
50°	2246.3	2080.1	1645.9	1266.7	990.6	805.1	682.8	629.2	618.2	605.9	607.3
52.5°	2380.9	2185.8	1683.0	1251.6	934.2	730.9	605.9	548.2	526.2	512.5	515.2
55°	2529.3	2294.4	1718.7	1228.3	875.2	656.7	537.2	478.1	450.6	439.6	441.0
57.5°	2665.3	2398.8	1744.8	1199.4	810.6	589.4	476.7	419.0	401.2	399.8	401.2
60°	2797.2	2486.7	1755.8	1159.6	744.6	527.6	420.4	376.4	364.1	370.9	372.3
62.5°	2908.5	2543.1	1750.3	1106.0	677.3	468.5	375.1	343.5	335.2	349.0	350.3
65°	2973.1	2560.9	1711.9	1029.0	604.5	410.8	332.5	298.1	294.0	302.3	306.4
67.5°	2887.9	2449.6	1607.4	923.2	523.4	357.2	291.3	263.8	256.9	263.8	263.8
70°	2559.5	2122.6	1360.1	755.6	434.1	305.0	252.8	233.6	228.1	233.6	232.2
72.5°	2132.3	1765.4	1071.6	589.4	342.1	256.9	219.8	202.0	196.5	191.0	188.2
75°	1654.2	1340.9	777.6	432.8	258.3	206.1	184.1	167.6	153.9	159.4	156.6
77.5°	1211.8	941.1	550.9	299.5	185.5	159.4	144.3	131.9	122.3	133.3	131.9
80°	780.4	608.6	368.2	200.6	127.8	111.3	105.8	98.9	108.5	141.5	144.3
82.5°	476.7	386.1	219.8	130.5	83.8	74.2	68.7	68.7	111.3	122.3	123.6
85°	213.0	204.7	119.5	67.3	46.7	42.6	38.5	49.5	45.3	33.0	34.3
87.5°	34.3	35.7	26.1	23.4	17.9	17.9	13.7	9.6	6.9	4.1	4.1
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)