

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: P799987

Luminaire Tested: **ARCH2-70-722-U-T2R**

Issue Date: 4/4/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P799987  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/4/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH2-70-722-U-T2R  
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2200K, 555mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

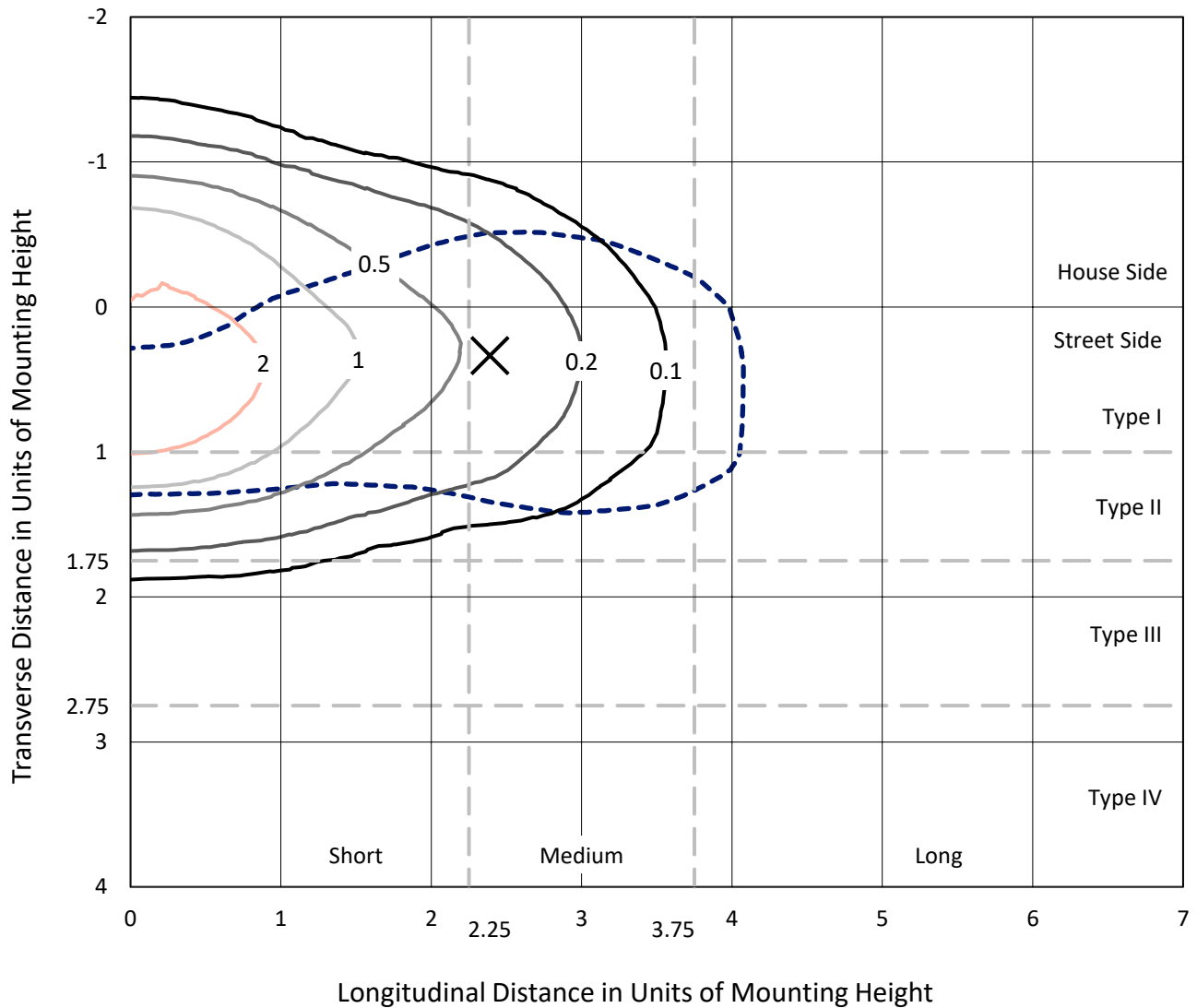
Lumens per Lamp: N/A  
Luminaire Lumens: 8760 lumens  
Efficiency: N/A  
Efficacy: 119.0 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.6  
Input Voltage (V): NR  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

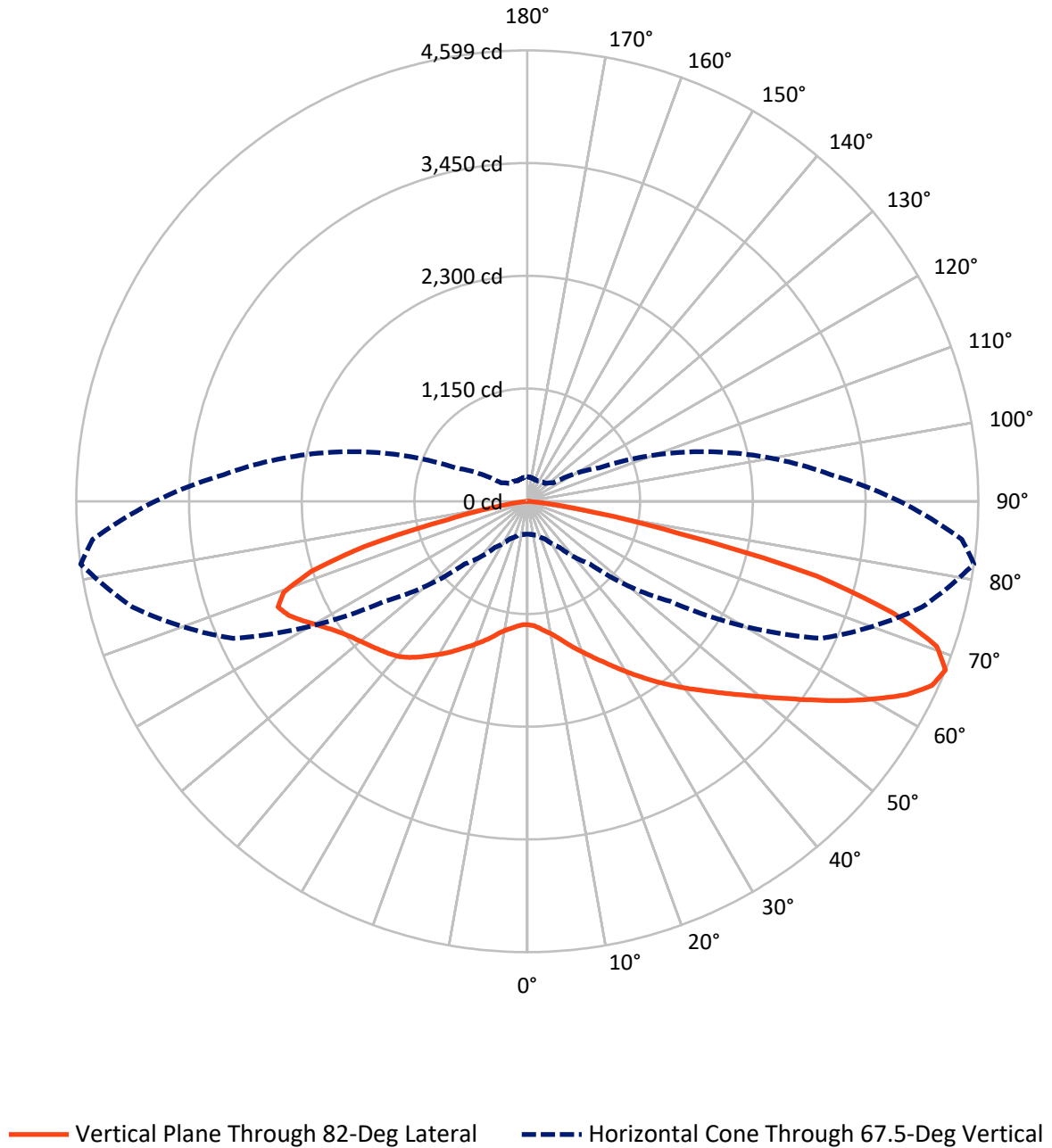
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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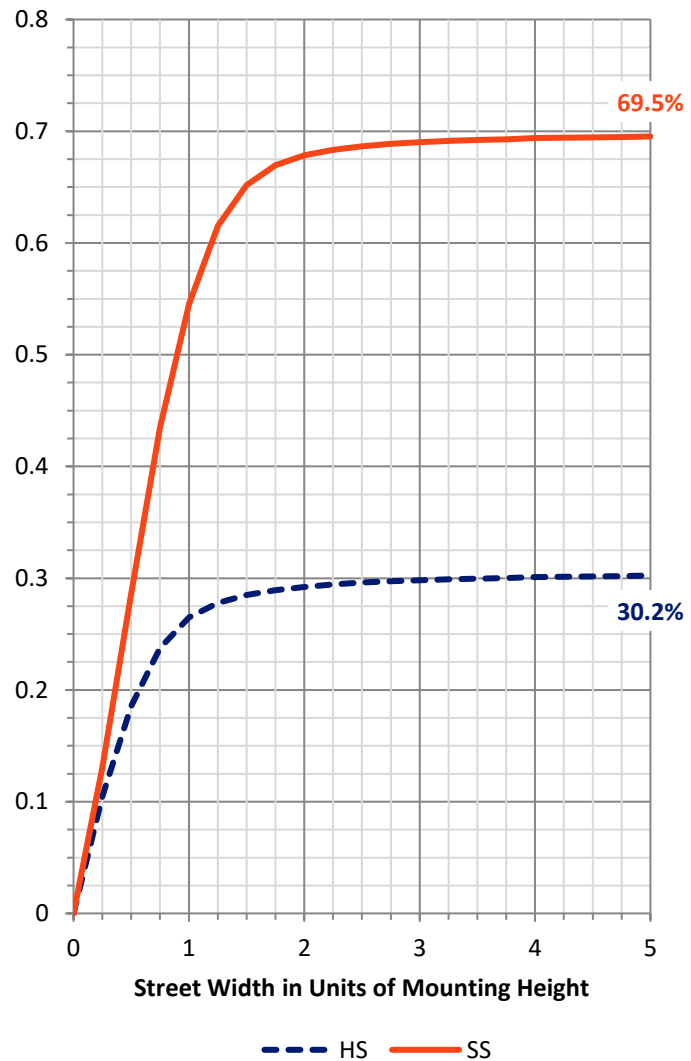
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2667.8	0.0	2667.8
	% Fixture	30.5	0.0	30.5
<b>Street Side</b>	Lumens	6092.2	0.0	6092.2
	% Fixture	69.5	0.0	69.5
<b>Total</b>	Lumens	8760.0	0.0	8760.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.1	1.5
10°-20°	468.8	5.4
20°-30°	942.1	10.8
30°-40°	1479.9	16.9
40°-50°	1802.8	20.6
50°-60°	1703.4	19.4
60°-70°	1406.6	16.1
70°-80°	766.0	8.7
80°-90°	60.2	0.7
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°	8760.0	100.0
0°-180°	8760.0	100.0



REPORT NUMBER: P799987

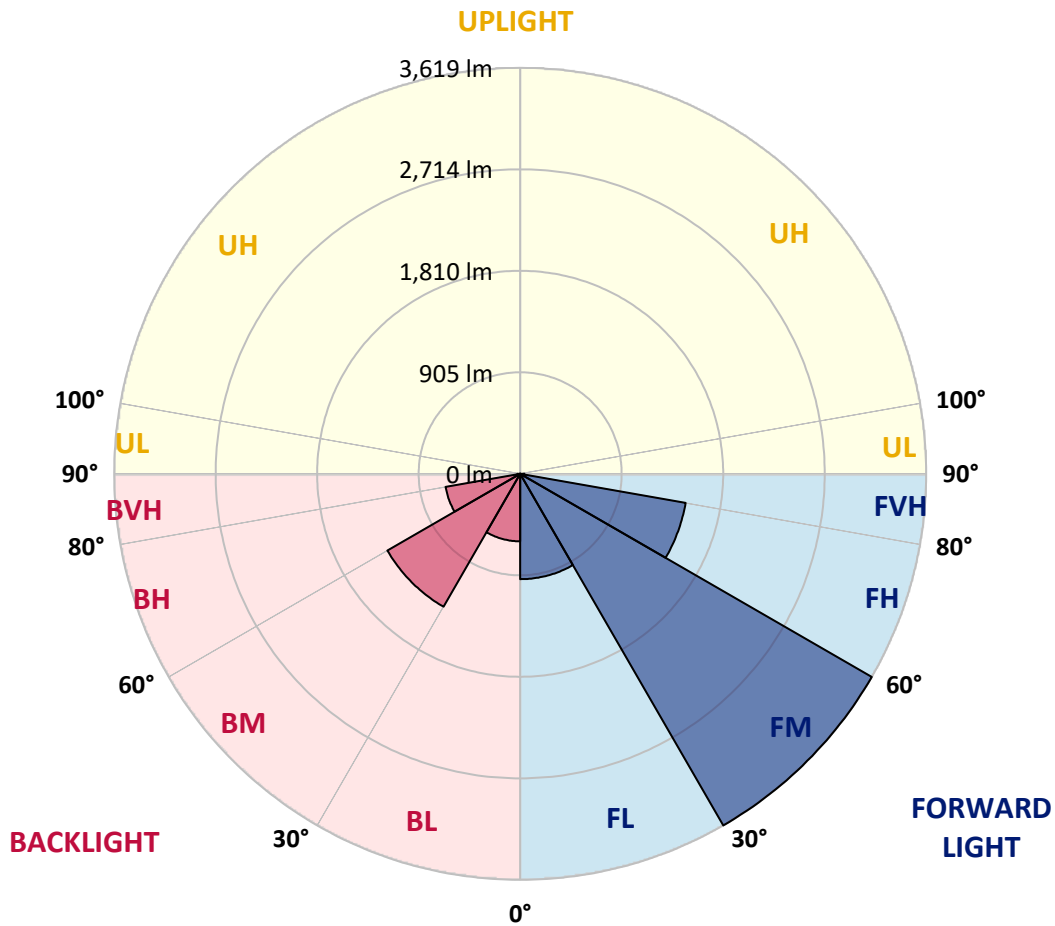
CATALOG NUMBER: ARCH2-70-722-U-T2R

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	939.4	10.7			
FM (30°-60°)	3619.1	41.3			
FH (60°-80°)	1497.4	17.1			G1/1800
FVH (80°-90°)	36.3	0.4			G1/100
BL (0°-30°)	601.6	6.9	B2/1000		
BM (30°-60°)	1367.0	15.6	B2/2500		
BH (60°-80°)	675.2	7.7	B2/1000		G2/1000
BVH (80°-90°)	23.9	0.3			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: P799987

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2
2.5°	1316.5	1316.5	1326.7	1326.7	1317.8	1303.8	1299.9	1284.7	1270.7	1270.7	1272.0
5°	1442.4	1441.1	1448.8	1438.6	1417.0	1389.0	1369.9	1336.8	1308.9	1299.9	1298.7
7.5°	1596.3	1595.0	1598.9	1582.3	1541.6	1495.8	1457.7	1404.2	1358.5	1339.4	1334.3
10°	1768.0	1766.8	1762.9	1735.0	1680.3	1609.0	1551.8	1478.0	1409.3	1378.8	1372.5
12.5°	1965.2	1962.6	1953.7	1913.0	1838.0	1746.4	1663.7	1568.3	1476.8	1434.8	1420.8
15°	2185.2	2181.4	2164.9	2115.3	2014.8	1899.0	1792.2	1670.1	1558.2	1503.5	1484.4
17.5°	2416.7	2416.7	2391.3	2317.5	2205.6	2061.9	1929.6	1774.4	1643.4	1576.0	1553.1
20°	2652.0	2650.8	2619.0	2529.9	2397.7	2232.3	2064.4	1894.0	1731.1	1649.7	1621.8
22.5°	2900.1	2897.5	2858.1	2756.3	2598.6	2411.6	2215.8	2012.2	1827.8	1729.9	1694.3
25°	3185.0	3181.2	3132.9	3008.2	2821.2	2610.1	2386.2	2150.9	1938.5	1818.9	1776.9
27.5°	3487.7	3482.6	3425.4	3280.4	3075.6	2821.2	2574.5	2311.2	2060.6	1918.1	1871.1
30°	3757.4	3753.6	3691.2	3542.4	3307.1	3031.1	2753.8	2471.4	2189.1	2023.7	1965.2
32.5°	3960.9	3960.9	3904.9	3758.7	3514.4	3232.1	2934.4	2622.8	2322.6	2136.9	2068.2
35°	4084.3	4088.1	4039.8	3922.7	3692.5	3421.6	3121.4	2800.9	2465.1	2257.7	2184.0
37.5°	4102.1	4114.8	4086.8	4008.0	3815.9	3579.3	3304.6	2972.6	2612.6	2379.8	2297.2
40°	4019.4	4028.3	4029.6	3999.1	3866.8	3692.5	3466.1	3154.5	2769.1	2508.3	2412.9
42.5°	3854.1	3860.4	3871.9	3880.8	3829.9	3742.1	3589.5	3323.6	2935.7	2639.3	2527.4
45°	3640.4	3639.1	3658.2	3696.3	3693.8	3714.1	3658.2	3477.6	3108.7	2788.1	2654.6
47.5°	3321.1	3314.7	3382.2	3468.6	3511.9	3607.3	3659.4	3598.4	3296.9	2952.2	2799.6
50°	2821.2	2814.9	2962.4	3165.9	3293.1	3438.1	3589.5	3670.9	3494.1	3136.7	2957.3
52.5°	2213.2	2206.9	2393.8	2750.0	3027.3	3238.4	3448.3	3687.4	3681.1	3342.7	3135.4
55°	1645.9	1640.8	1822.7	2208.1	2657.1	3006.9	3275.3	3644.2	3856.6	3579.3	3351.6
57.5°	1160.0	1157.5	1315.2	1634.5	2181.4	2724.5	3108.7	3560.2	4018.1	3836.2	3595.8
60°	814.1	810.2	924.7	1171.5	1649.7	2298.4	2943.3	3448.3	4139.0	4089.4	3855.3
62.5°	548.2	545.7	627.1	833.1	1171.5	1769.3	2692.8	3373.3	4207.7	4343.8	4117.4
65°	415.9	414.7	451.5	564.8	829.3	1270.7	2294.6	3364.3	4216.6	4534.6	4339.9
67.5°	335.8	337.1	357.4	422.3	573.7	903.1	1779.5	3308.4	4169.5	4599.4	4448.1
70°	274.7	274.7	283.6	326.9	423.6	609.3	1242.7	3054.0	4038.5	4430.3	4319.6
72.5°	209.9	211.1	239.1	264.6	319.3	427.4	796.3	2527.4	3729.4	3906.2	3822.3
75°	166.6	165.4	181.9	217.5	248.0	305.3	488.4	1812.6	3173.6	3052.7	2999.3
77.5°	119.6	118.3	131.0	161.5	188.3	216.2	291.3	914.5	1726.1	1586.1	1546.7
80°	81.4	78.9	90.3	111.9	124.7	127.2	142.5	351.1	753.0	709.8	700.9
82.5°	42.0	42.0	48.3	63.6	64.9	66.1	63.6	113.2	249.3	232.8	222.6
85°	16.5	16.5	17.8	21.6	21.6	22.9	22.9	29.3	26.7	25.4	24.2
87.5°	1.3	1.3	2.5	2.5	3.8	3.8	3.8	5.1	6.4	6.4	6.4
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: P799987  
 CATALOG NUMBER: ARCH2-70-722-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2	1259.2
2.5°	1269.4	1264.3	1247.8	1244.0	1241.4	1237.6	1238.9	1230.0	1226.2	1227.4	1222.4
5°	1292.3	1283.4	1263.1	1254.2	1251.6	1247.8	1251.6	1245.3	1238.9	1241.4	1238.9
7.5°	1324.1	1311.4	1286.0	1277.1	1275.8	1272.0	1277.1	1272.0	1266.9	1269.4	1264.3
10°	1357.2	1340.7	1312.7	1303.8	1303.8	1302.5	1307.6	1299.9	1294.9	1296.1	1293.6
12.5°	1405.5	1383.9	1353.4	1345.7	1341.9	1345.7	1347.0	1336.8	1327.9	1329.2	1325.4
15°	1464.0	1439.9	1406.8	1395.3	1392.8	1391.5	1386.4	1373.7	1362.3	1361.0	1357.2
17.5°	1527.6	1497.1	1457.7	1446.2	1434.8	1431.0	1418.2	1401.7	1383.9	1383.9	1378.8
20°	1588.7	1554.3	1507.3	1490.7	1474.2	1458.9	1437.3	1410.6	1387.7	1383.9	1378.8
22.5°	1654.8	1614.1	1559.4	1535.3	1506.0	1475.5	1438.6	1403.0	1373.7	1367.4	1363.5
25°	1728.6	1677.7	1612.9	1577.2	1530.2	1483.1	1428.4	1382.6	1348.3	1338.1	1335.6
27.5°	1810.0	1749.0	1670.1	1617.9	1549.3	1475.5	1405.5	1350.8	1308.9	1296.1	1292.3
30°	1892.7	1820.2	1722.2	1645.9	1549.3	1451.3	1363.5	1299.9	1251.6	1233.8	1231.3
32.5°	1975.4	1894.0	1769.3	1661.2	1534.0	1410.6	1308.9	1233.8	1179.1	1157.5	1162.6
35°	2074.6	1975.4	1812.6	1667.5	1508.6	1361.0	1246.5	1158.8	1102.8	1083.7	1087.5
37.5°	2177.6	2056.8	1846.9	1662.5	1472.9	1305.0	1176.6	1091.3	1021.4	988.3	992.1
40°	2266.6	2130.5	1871.1	1644.7	1427.1	1241.4	1107.9	995.9	899.3	867.5	863.7
42.5°	2350.6	2185.2	1883.8	1617.9	1375.0	1167.7	1009.9	866.2	769.5	730.1	731.4
45°	2438.4	2238.7	1878.7	1582.3	1310.1	1081.2	884.0	739.0	653.8	618.2	619.4
47.5°	2538.8	2295.9	1873.6	1544.2	1231.3	969.2	763.2	627.1	553.3	527.9	525.3
50°	2645.7	2359.5	1867.2	1497.1	1143.5	844.6	643.6	522.8	460.5	443.9	440.1
52.5°	2766.5	2428.2	1863.4	1441.1	1037.9	712.3	536.8	431.2	389.2	377.8	376.5
55°	2911.5	2508.3	1868.5	1373.7	910.7	587.6	446.5	371.4	343.4	337.1	335.8
57.5°	3088.3	2611.3	1883.8	1294.9	777.2	479.5	380.3	334.5	316.7	311.6	311.6
60°	3280.4	2728.4	1911.8	1205.8	643.6	395.6	337.1	305.3	297.6	304.0	304.0
62.5°	3487.7	2865.7	1961.4	1097.7	519.0	334.5	302.7	281.1	276.0	288.7	290.0
65°	3679.8	2999.3	1993.2	968.0	412.1	290.0	276.0	256.9	259.5	272.2	270.9
67.5°	3798.1	3110.0	1948.7	805.2	326.9	256.9	248.0	231.5	237.9	248.0	249.3
70°	3725.6	3047.6	1728.6	608.0	255.7	223.9	217.5	207.3	212.4	225.1	230.2
72.5°	3370.7	2729.6	1344.5	410.8	206.1	188.3	190.8	185.7	192.1	203.5	215.0
75°	2736.0	2063.1	901.8	263.3	162.8	160.3	164.1	160.3	162.8	174.3	180.6
77.5°	1428.4	1006.1	449.0	164.1	120.8	124.7	131.0	132.3	139.9	142.5	145.0
80°	666.5	452.8	187.0	91.6	80.1	87.8	100.5	101.8	104.3	108.1	109.4
82.5°	217.5	136.1	86.5	49.6	45.8	49.6	64.9	77.6	78.9	86.5	86.5
85°	22.9	14.0	19.1	20.4	17.8	21.6	29.3	28.0	12.7	7.6	7.6
87.5°	6.4	5.1	6.4	6.4	5.1	5.1	3.8	1.3	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)