

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: P800153

Luminaire Tested: **ARCH2-80-730-U-T4W**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P800153
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: ARCH2-80-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 630mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10603 lumens
Efficiency: N/A
Efficacy: 125.8 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

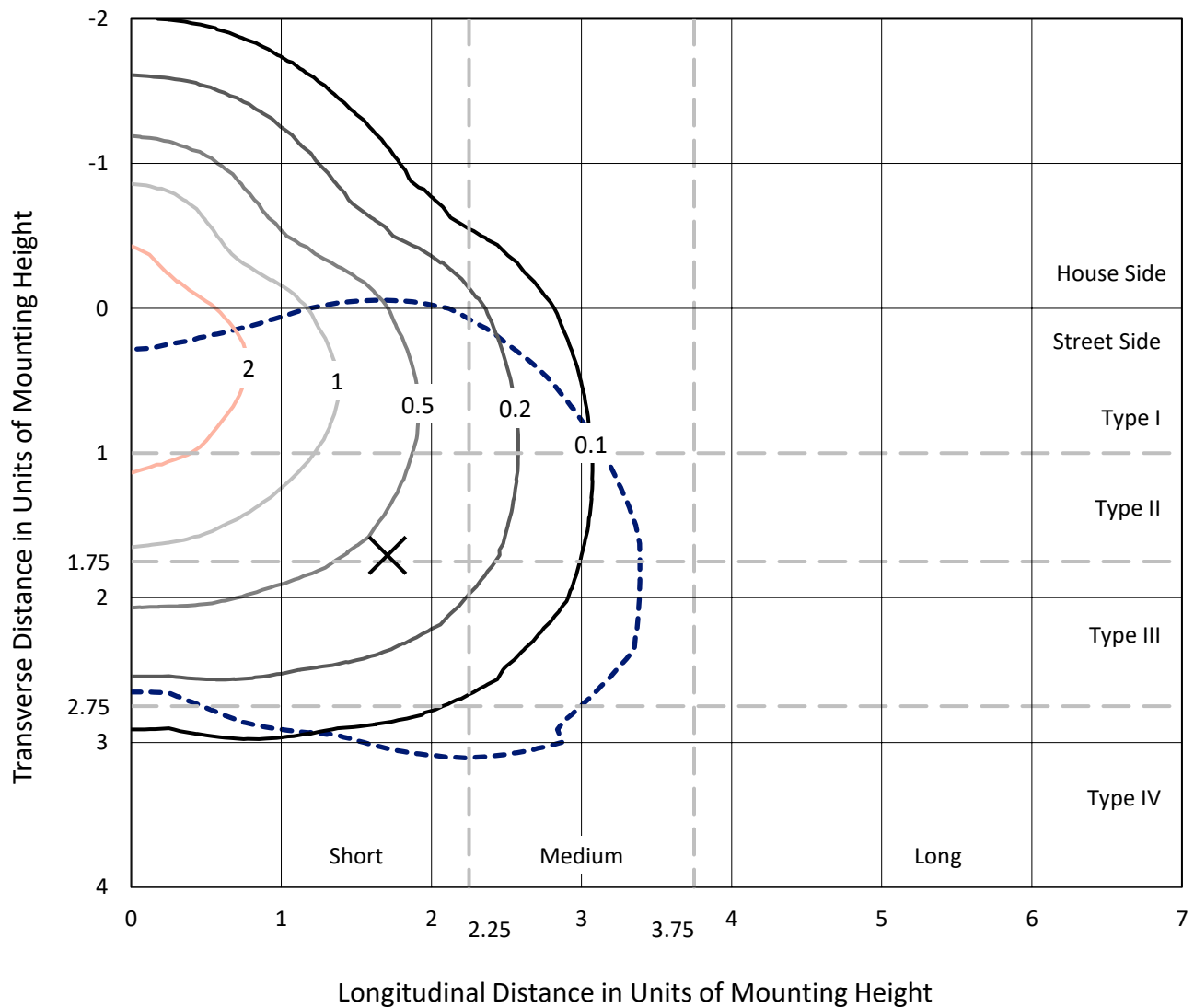


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

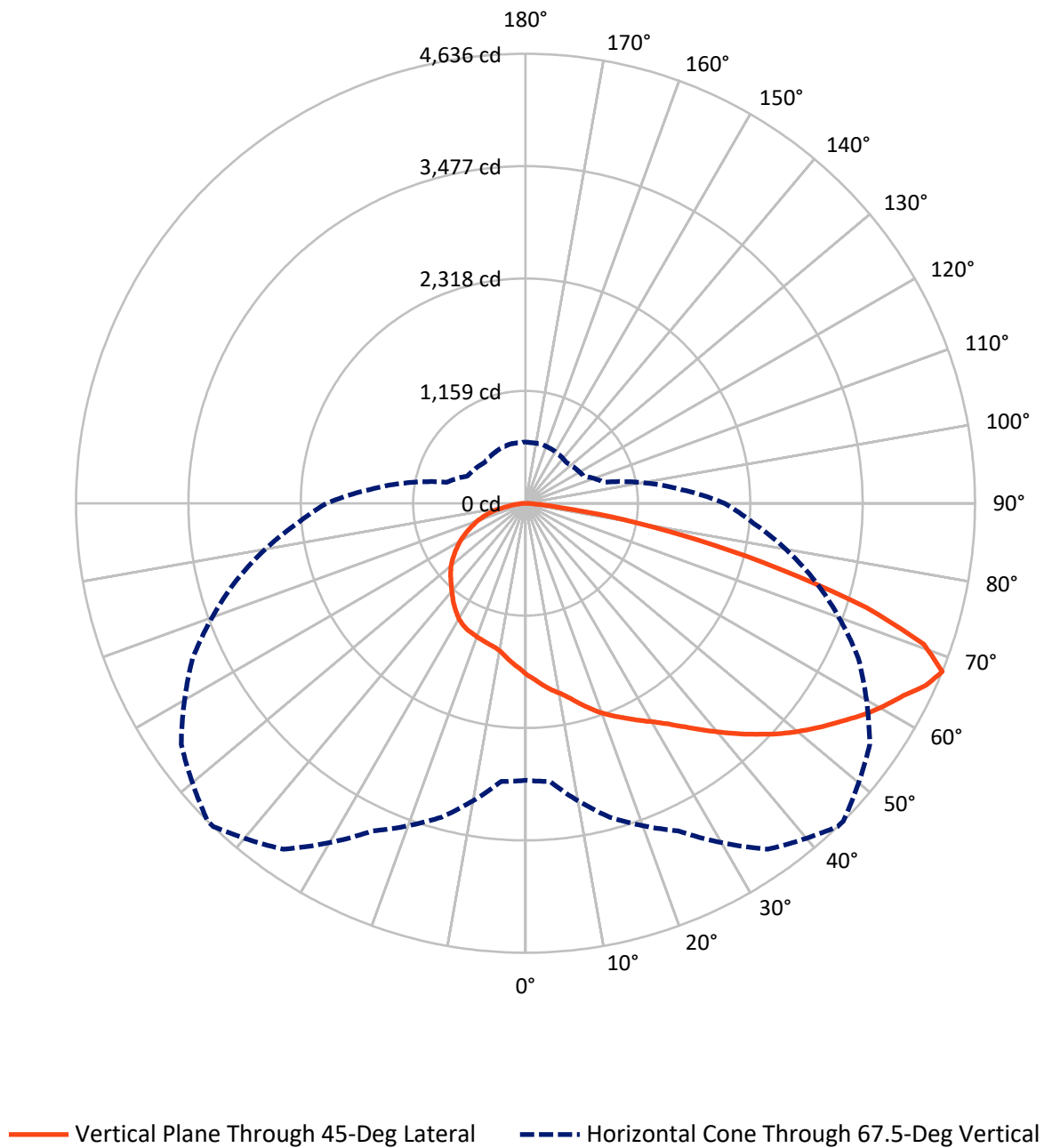


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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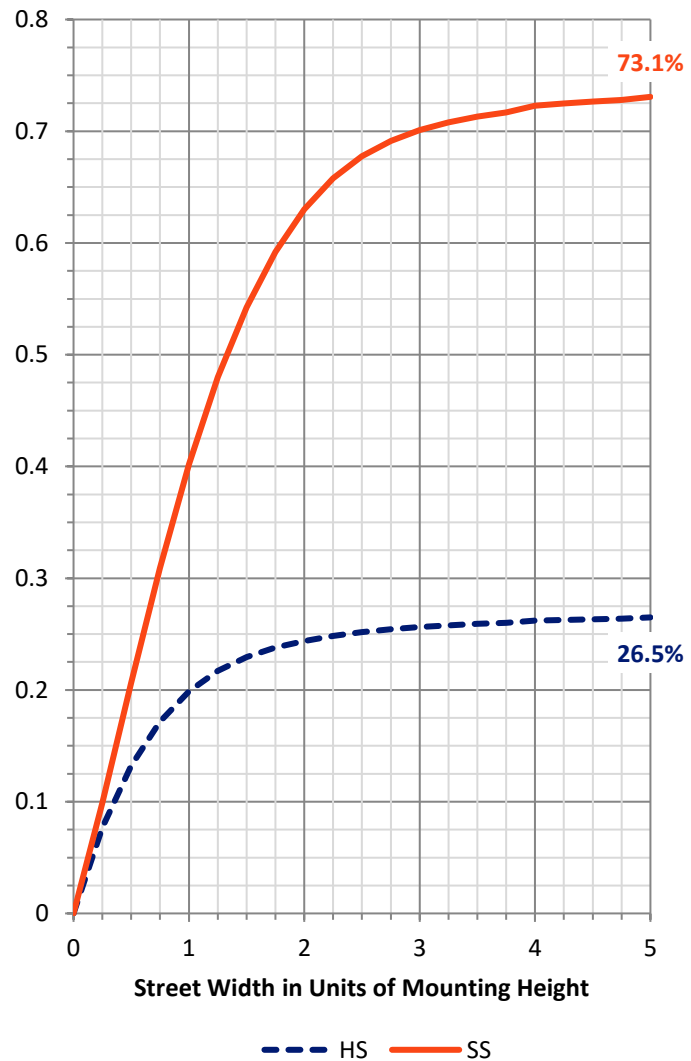
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2832.6	0.0	2832.6
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	7770.4	0.0	7770.4
	% Fixture	73.3	0.0	73.3
Total	Lumens	10603.0	0.0	10603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.3	1.6
10°-20°	523.0	4.9
20°-30°	902.8	8.5
30°-40°	1331.3	12.6
40°-50°	1803.7	17.0
50°-60°	2204.5	20.8
60°-70°	2273.7	21.4
70°-80°	1245.4	11.7
80°-90°	149.3	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°	10603.0	100.0
0°-180°	10603.0	100.0

Coefficient of Utilization



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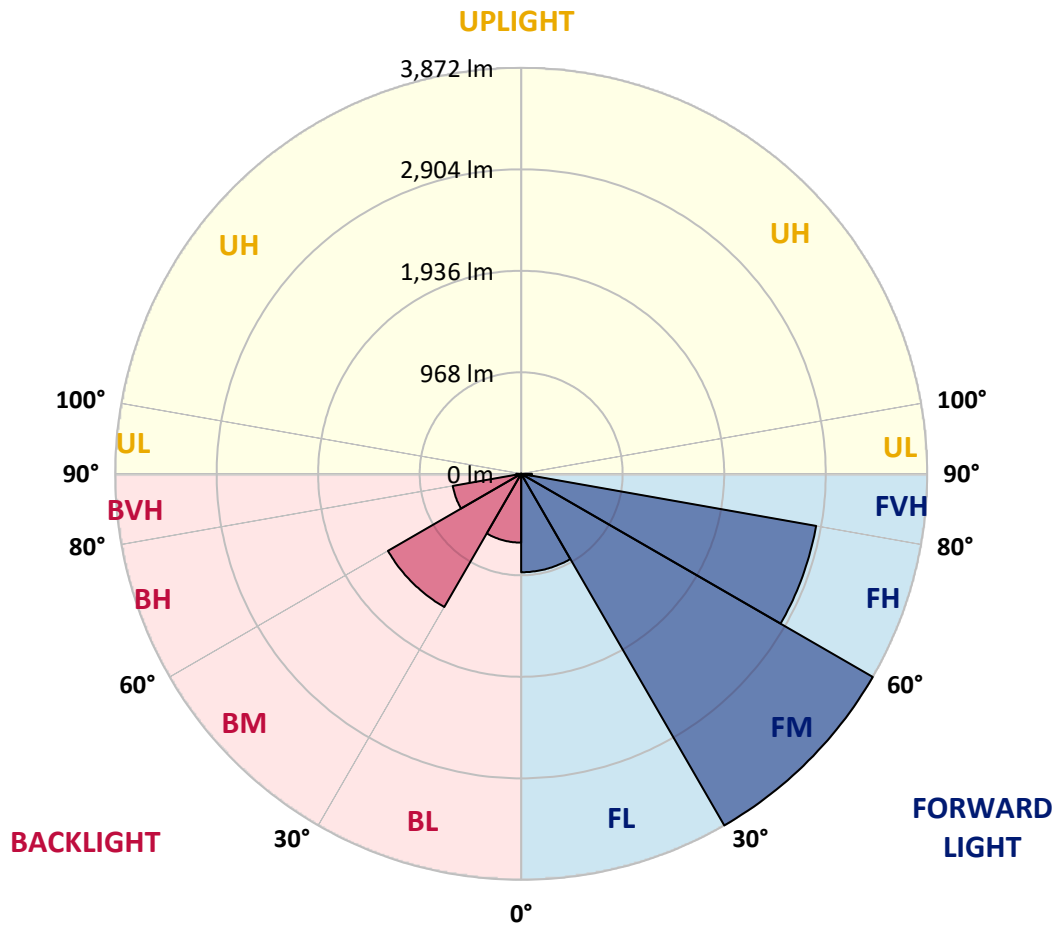
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	938.6	8.9			
FM	(30°-60°)	3872.3	36.5			
FH	(60°-80°)	2856.6	26.9			G2/5000
FVH	(80°-90°)	102.8	1.0			G2/225
BL	(0°-30°)	656.5	6.2	B2/1000		
BM	(30°-60°)	1467.2	13.8	B2/2500		
BH	(60°-80°)	662.4	6.2	B2/1000		G2/1000
BVH	(80°-90°)	46.4	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°	1768.4	1768.4	1768.4	1768.4	1768.4	1768.4	1768.4	1768.4	1768.4	1768.4	1768.4
2.5°	1845.8	1844.2	1847.4	1836.1	1821.6	1820.0	1820.0	1810.3	1799.0	1776.4	1758.7
5°	1933.0	1929.7	1931.3	1915.2	1895.8	1886.2	1884.6	1863.6	1837.8	1802.3	1770.0
7.5°	2013.6	2010.4	2008.8	1991.0	1962.0	1945.9	1944.2	1913.6	1882.9	1828.1	1781.3
10°	2089.5	2086.2	2083.0	2058.8	2023.3	1999.1	1995.9	1957.2	1918.4	1850.7	1791.0
12.5°	2186.3	2179.8	2176.6	2147.5	2095.9	2070.1	2065.3	2013.6	1965.2	1882.9	1810.3
15°	2287.9	2283.1	2278.2	2250.8	2192.7	2158.8	2150.8	2086.2	2020.1	1924.9	1839.4
17.5°	2363.8	2358.9	2358.9	2334.7	2281.5	2242.7	2236.3	2158.8	2076.6	1963.6	1862.0
20°	2410.5	2405.7	2410.5	2396.0	2355.7	2323.4	2317.0	2231.4	2133.0	1999.1	1881.3
22.5°	2444.4	2439.6	2447.7	2441.2	2412.2	2392.8	2388.0	2304.1	2191.1	2036.2	1900.7
25°	2504.1	2504.1	2504.1	2492.8	2465.4	2459.0	2459.0	2386.3	2265.3	2084.6	1929.7
27.5°	2623.5	2617.1	2609.0	2576.7	2529.9	2528.3	2538.0	2470.2	2350.8	2147.5	1965.2
30°	2799.4	2796.2	2765.5	2697.7	2618.7	2610.6	2617.1	2560.6	2442.8	2213.7	2005.6
32.5°	3026.9	3015.6	2952.7	2851.0	2738.1	2701.0	2713.9	2654.2	2539.6	2281.5	2044.3
35°	3188.2	3191.5	3146.3	3054.3	2920.4	2822.0	2831.7	2759.1	2644.5	2357.3	2092.7
37.5°	3373.8	3385.1	3317.3	3247.9	3123.7	2955.9	2965.6	2867.2	2749.4	2452.5	2144.3
40°	3630.3	3607.8	3493.2	3410.9	3273.8	3096.3	3104.3	2988.2	2870.4	2542.9	2204.0
42.5°	3844.9	3804.6	3665.8	3561.0	3396.4	3244.7	3252.8	3118.9	2993.0	2642.9	2270.2
45°	4153.1	4041.8	3841.7	3790.1	3522.2	3389.9	3398.0	3257.6	3122.1	2749.4	2341.2
47.5°	4332.2	4154.7	4027.3	3999.8	3661.0	3540.0	3549.7	3404.5	3260.9	2870.4	2415.4
50°	4320.9	4206.4	4169.2	4101.5	3783.6	3680.4	3690.0	3556.1	3401.2	2989.8	2486.4
52.5°	4246.7	4267.7	4248.3	4135.4	3906.2	3815.9	3827.2	3706.2	3544.8	3101.1	2552.5
55°	4361.2	4375.8	4338.7	4190.2	4041.8	3951.4	3964.3	3864.3	3686.8	3199.5	2609.0
57.5°	4498.4	4446.8	4409.7	4287.0	4182.2	4098.3	4112.8	4025.6	3809.4	3278.6	2652.6
60°	4491.9	4383.8	4420.9	4293.5	4277.3	4233.8	4246.7	4158.0	3903.0	3336.7	2670.3
62.5°	4161.2	4103.1	4290.3	4246.7	4354.8	4354.8	4370.9	4238.6	3959.5	3360.9	2660.6
65°	3586.8	3590.0	3919.2	4099.9	4446.8	4521.0	4533.9	4288.6	3927.2	3289.9	2570.3
67.5°	2857.5	2878.5	3351.2	3727.1	4354.8	4633.9	4635.5	4333.8	3788.5	3089.8	2360.5
70°	2091.1	2107.2	2665.5	3122.1	3920.8	4383.8	4358.0	4206.4	3486.7	2741.3	2033.0
72.5°	1413.4	1427.9	2002.3	2397.6	3217.3	3733.6	3677.1	3717.5	2972.0	2252.4	1634.5
75°	950.3	968.1	1424.7	1715.1	2367.0	2834.9	2709.0	2815.5	2299.2	1705.5	1192.4
77.5°	598.6	609.9	905.2	1124.6	1616.7	1929.7	1803.9	1805.5	1324.7	918.1	640.6
80°	380.8	384.0	548.6	648.6	935.8	1160.1	1026.2	834.2	597.0	487.3	382.4
82.5°	221.0	216.2	327.5	366.3	445.3	440.5	364.6	345.3	261.4	243.6	195.2
85°	88.7	82.3	143.6	133.9	135.5	143.6	106.5	106.5	85.5	66.2	48.4
87.5°	17.7	17.7	19.4	17.7	17.7	19.4	14.5	14.5	12.9	12.9	12.9
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°	1768.4	1768.4	1768.4	1768.4	1768.4	1768.4	1768.4	1768.4	1768.4	1768.4	1768.4
2.5°	1755.5	1752.2	1744.2	1723.2	1711.9	1705.5	1695.8	1692.5	1690.9	1692.5	1697.4
5°	1760.3	1749.0	1726.4	1692.5	1670.0	1655.4	1639.3	1632.8	1628.0	1628.0	1632.8
7.5°	1763.5	1745.8	1707.1	1657.0	1624.8	1602.2	1582.8	1574.8	1573.1	1578.0	1579.6
10°	1765.2	1739.3	1684.5	1621.6	1579.6	1550.6	1531.2	1526.4	1531.2	1540.9	1542.5
12.5°	1776.4	1741.0	1671.6	1597.3	1547.3	1518.3	1503.8	1503.8	1516.7	1534.4	1536.0
15°	1795.8	1752.2	1665.1	1578.0	1526.4	1500.5	1495.7	1503.8	1523.1	1550.6	1553.8
17.5°	1810.3	1758.7	1650.6	1552.2	1498.9	1482.8	1490.9	1510.2	1537.7	1574.8	1578.0
20°	1820.0	1758.7	1629.6	1521.5	1471.5	1468.3	1490.9	1521.5	1550.6	1594.1	1599.0
22.5°	1829.7	1755.5	1605.4	1484.4	1440.8	1450.5	1492.5	1531.2	1560.2	1607.0	1615.1
25°	1847.4	1760.3	1581.2	1447.3	1408.6	1436.0	1490.9	1537.7	1568.3	1616.7	1629.6
27.5°	1871.6	1771.6	1563.5	1413.4	1376.3	1413.4	1479.6	1536.0	1568.3	1615.1	1629.6
30°	1897.5	1784.5	1542.5	1376.3	1339.2	1381.1	1455.4	1518.3	1555.4	1599.0	1616.7
32.5°	1924.9	1799.0	1524.7	1336.0	1294.0	1337.6	1419.9	1490.9	1531.2	1571.5	1590.9
35°	1962.0	1824.9	1515.1	1303.7	1253.7	1292.4	1374.7	1455.4	1498.9	1536.0	1558.6
37.5°	2007.2	1857.1	1510.2	1271.4	1210.1	1242.4	1326.3	1411.8	1458.6	1489.2	1510.2
40°	2058.8	1897.5	1508.6	1240.8	1166.5	1190.8	1276.3	1361.8	1407.0	1431.2	1448.9
42.5°	2116.9	1942.6	1505.4	1210.1	1123.0	1142.3	1227.9	1311.8	1350.5	1371.5	1387.6
45°	2178.2	1987.8	1498.9	1173.0	1076.2	1098.8	1177.8	1252.1	1292.4	1310.1	1327.9
47.5°	2239.5	2033.0	1486.0	1131.1	1034.2	1055.2	1124.6	1189.1	1221.4	1237.5	1255.3
50°	2299.2	2073.3	1455.4	1082.6	990.7	1010.0	1063.3	1106.9	1131.1	1144.0	1161.7
52.5°	2352.5	2100.8	1411.8	1026.2	947.1	956.8	992.3	1029.4	1048.8	1050.4	1066.5
55°	2397.6	2115.3	1348.9	968.1	900.3	901.9	921.3	950.3	958.4	952.0	963.3
57.5°	2423.5	2107.2	1279.5	908.4	851.9	845.5	860.0	874.5	876.1	860.0	871.3
60°	2429.9	2070.1	1189.1	848.7	803.5	785.8	790.6	787.4	784.2	777.7	787.4
62.5°	2397.6	1991.0	1089.1	790.6	751.9	724.5	722.8	721.2	726.1	727.7	729.3
65°	2279.9	1842.6	969.7	730.9	697.0	659.9	658.3	677.7	684.1	674.4	677.7
67.5°	2052.4	1615.1	839.0	661.5	627.6	595.4	608.3	619.6	630.9	627.6	630.9
70°	1729.7	1326.3	719.6	584.1	551.8	534.1	548.6	558.3	559.9	556.7	559.9
72.5°	1360.2	1035.9	608.3	505.0	476.0	467.9	485.7	493.7	508.2	514.7	516.3
75°	982.6	764.8	498.6	419.5	395.3	395.3	411.4	426.0	438.9	430.8	426.0
77.5°	548.6	456.6	358.2	288.8	293.7	316.2	322.7	338.8	351.7	350.1	346.9
80°	332.4	285.6	242.0	187.2	185.6	203.3	245.2	272.7	279.1	264.6	263.0
82.5°	172.6	150.1	129.1	104.9	116.2	135.5	142.0	171.0	188.8	182.3	190.4
85°	43.6	42.0	46.8	48.4	59.7	66.2	72.6	85.5	56.5	27.4	27.4
87.5°	12.9	12.9	16.1	16.1	21.0	25.8	24.2	24.2	12.9	1.6	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)