

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: P572784

Luminaire Tested: **ARCH-S-PA2-110-827-U-T3**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-110-827-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11054 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

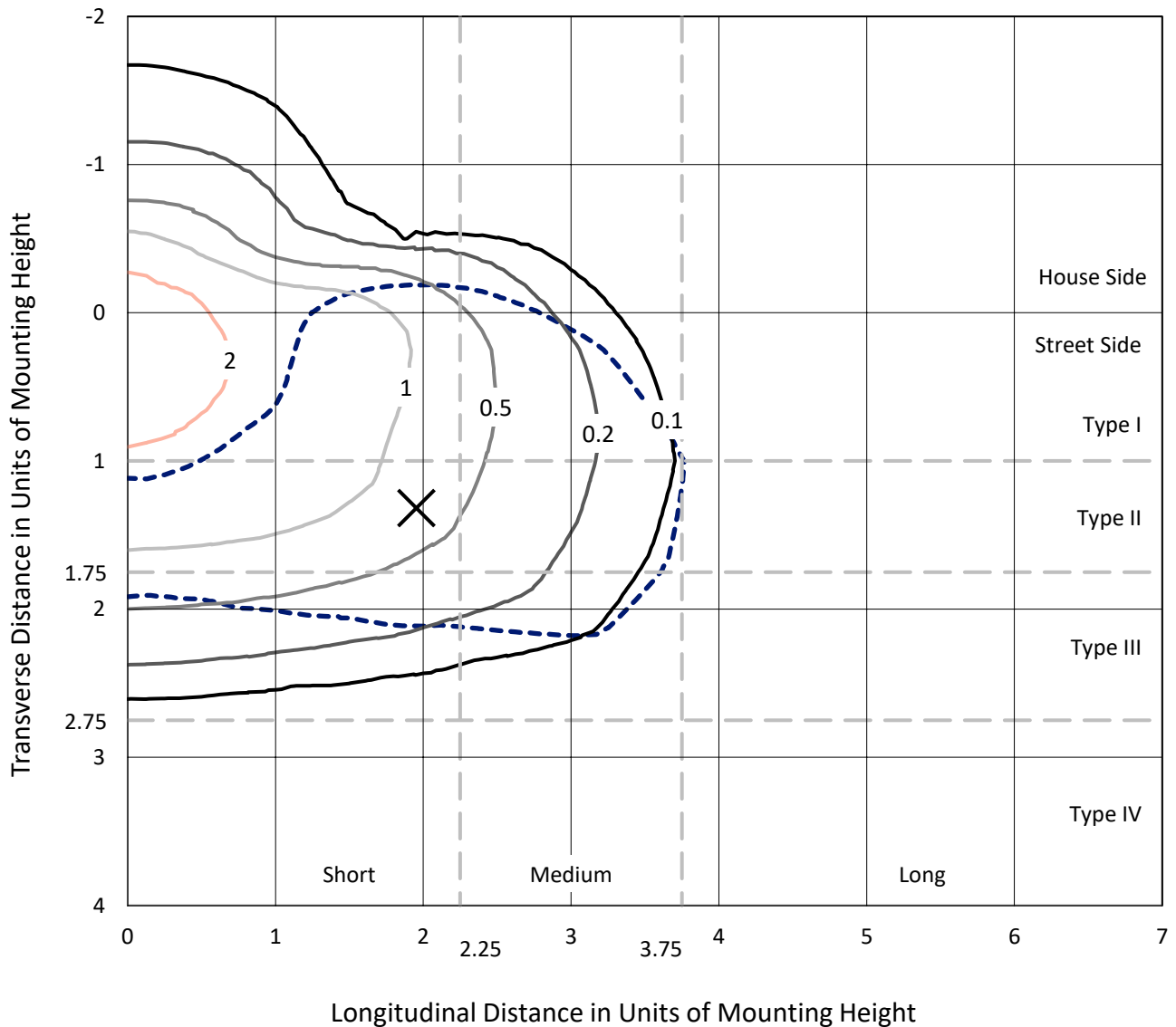
Input Watts (W): 114.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

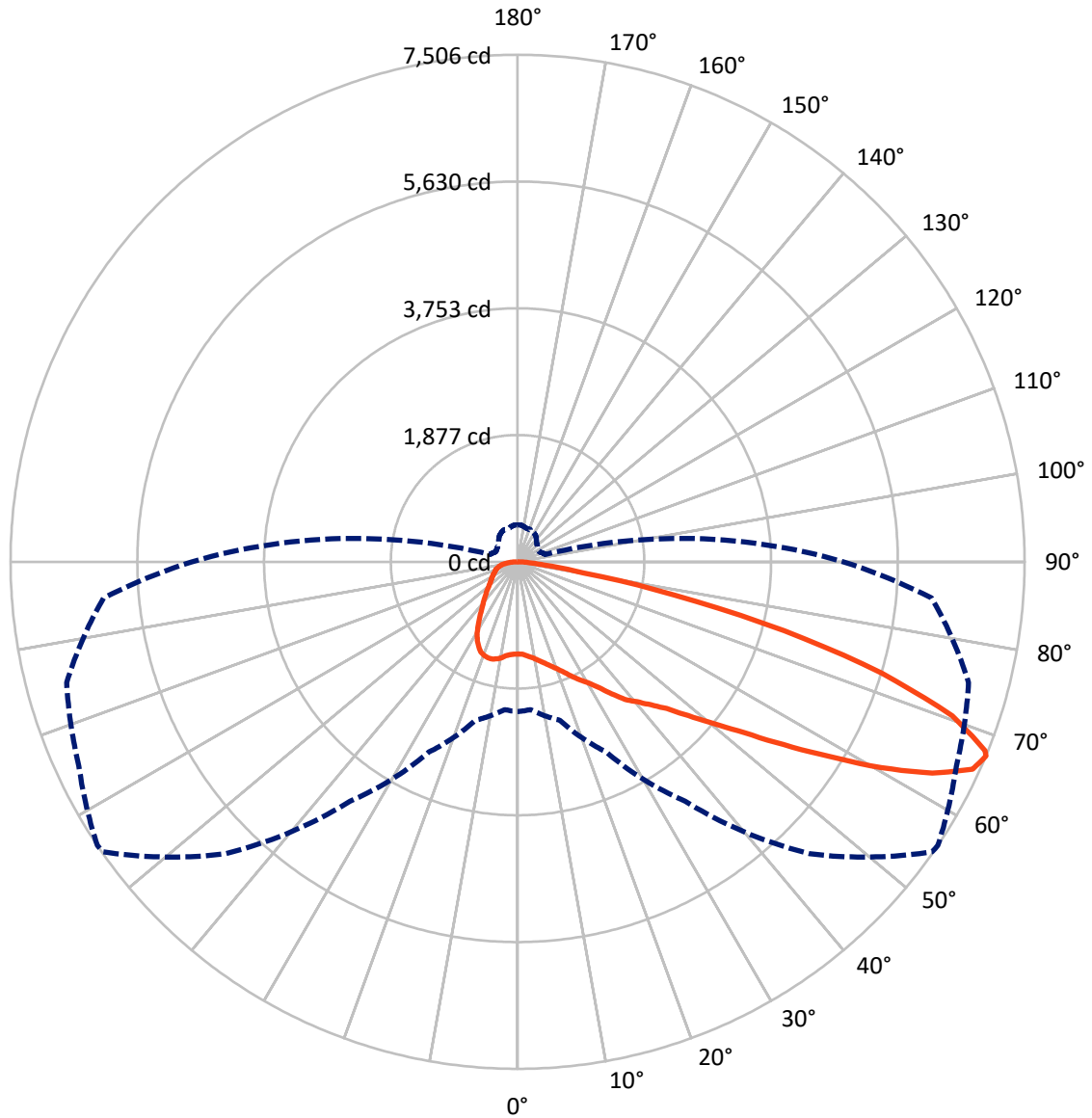
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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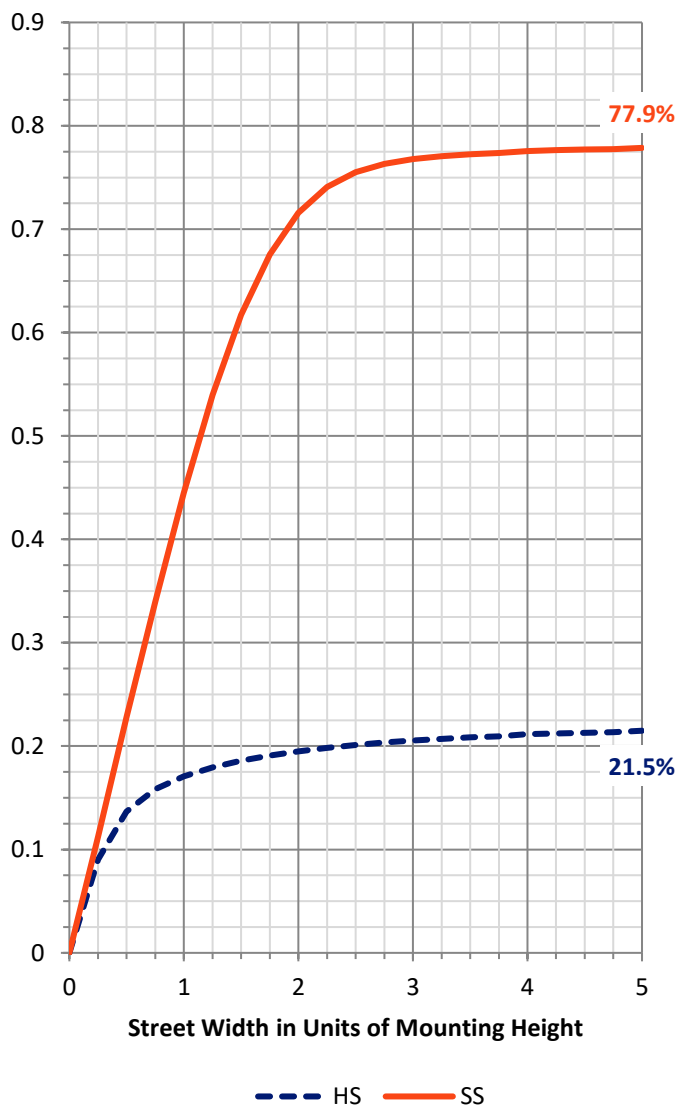
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2418.4	0.0	2418.4
	% Fixture	21.9	0.0	21.9
<b>Street Side</b>	Lumens	8635.6	0.0	8635.6
	% Fixture	78.1	0.0	78.1
<b>Total</b>	Lumens	11054.0	0.0	11054.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.3	1.2
10°-20°	430.6	3.9
20°-30°	749.4	6.8
30°-40°	1098.8	9.9
40°-50°	1607.7	14.5
50°-60°	2512.6	22.7
60°-70°	2986.3	27.0
70°-80°	1360.1	12.3
80°-90°	174.4	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°	11054.0	100.0
0°-180°	11054.0	100.0

**Coefficient of Utilization**



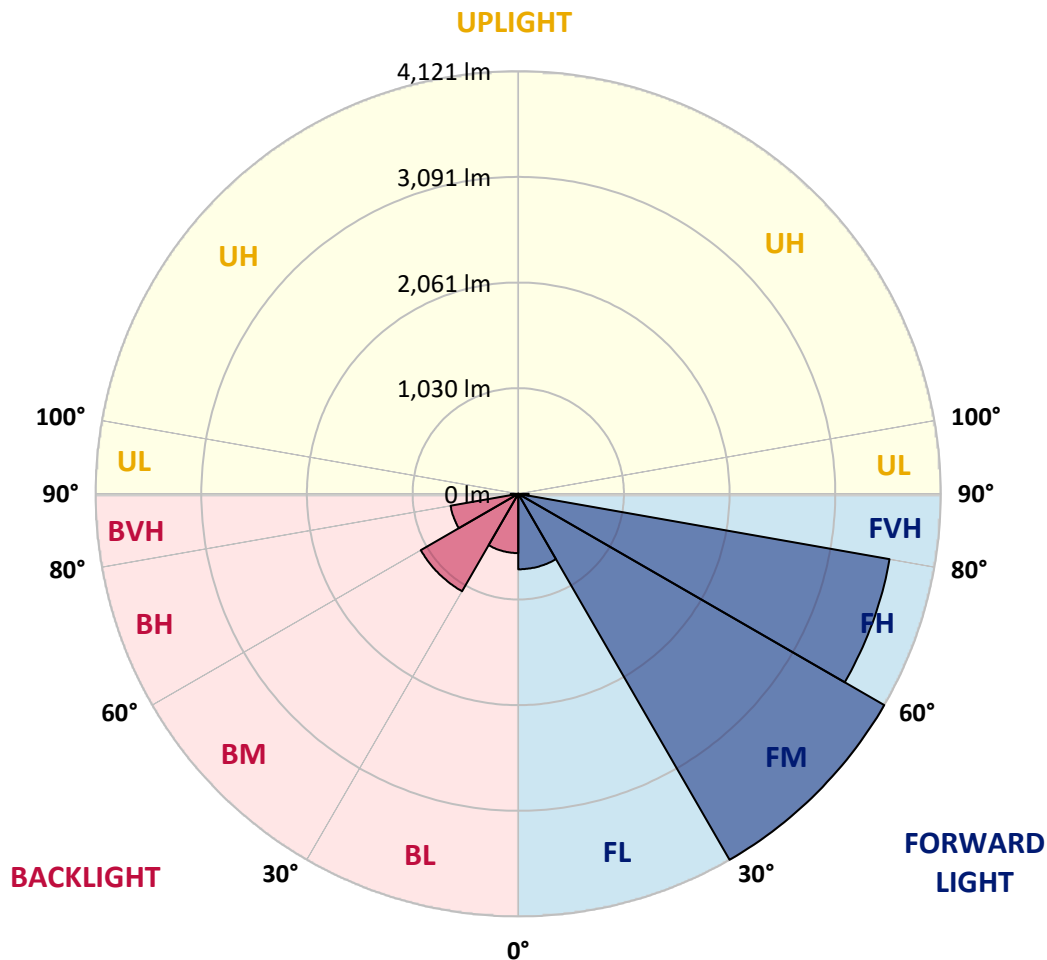
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.3	6.7			
FM (30°-60°)	4121.2	37.3			
FH (60°-80°)	3676.4	33.3			G2/5000
FVH (80°-90°)	101.7	0.9			G2/225
BL (0°-30°)	578.0	5.2	B2/1000		
BM (30°-60°)	1097.8	9.9	B2/2500		
BH (60°-80°)	670.0	6.1	B2/1000		G2/1000
BVH (80°-90°)	72.7	0.7			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7
2.5°	1385.7	1379.7	1376.7	1379.7	1376.7	1370.7	1373.7	1370.7	1367.7	1364.7	1364.7
5°	1403.6	1397.7	1394.7	1397.7	1400.6	1394.7	1394.7	1394.7	1385.7	1382.7	1376.7
7.5°	1415.6	1406.6	1406.6	1412.6	1418.6	1421.6	1427.6	1424.6	1415.6	1409.6	1397.7
10°	1454.5	1442.5	1442.5	1442.5	1448.5	1454.5	1460.5	1463.5	1460.5	1457.5	1448.5
12.5°	1514.4	1502.4	1502.4	1502.4	1502.4	1499.4	1508.4	1511.4	1517.4	1517.4	1502.4
15°	1595.2	1580.2	1574.2	1562.3	1559.3	1553.3	1565.3	1565.3	1574.2	1577.2	1562.3
17.5°	1673.0	1655.0	1649.1	1637.1	1625.1	1610.1	1622.1	1625.1	1643.1	1646.1	1622.1
20°	1753.8	1747.8	1738.8	1720.9	1699.9	1685.0	1696.9	1693.9	1708.9	1714.9	1685.0
22.5°	1858.6	1843.6	1837.6	1813.7	1789.7	1774.8	1774.8	1780.7	1795.7	1795.7	1750.8
25°	1984.3	1963.3	1948.3	1921.4	1891.5	1873.5	1876.5	1882.5	1903.4	1888.5	1819.6
27.5°	2139.9	2118.9	2098.0	2044.1	2014.2	1978.3	1975.3	1981.3	2014.2	1975.3	1885.5
30°	2286.5	2277.6	2259.6	2217.7	2169.8	2110.0	2083.0	2086.0	2110.0	2056.1	1942.4
32.5°	2412.2	2400.3	2391.3	2361.4	2328.4	2256.6	2220.7	2223.7	2220.7	2154.8	2011.2
35°	2561.9	2543.9	2537.9	2511.0	2469.1	2421.2	2406.2	2400.3	2382.3	2292.5	2101.0
37.5°	2705.5	2687.6	2678.6	2663.6	2630.7	2588.8	2588.8	2585.8	2549.9	2424.2	2190.8
40°	2876.1	2855.2	2828.2	2819.3	2792.3	2762.4	2738.5	2723.5	2660.6	2546.9	2364.3
42.5°	3082.6	3070.7	3055.7	3016.8	2974.9	2968.9	2900.1	2894.1	2849.2	2783.3	2609.8
45°	3378.9	3355.0	3334.0	3322.1	3271.2	3217.3	3121.5	3097.6	3097.6	3082.6	2897.1
47.5°	3678.2	3636.3	3666.2	3657.3	3645.3	3585.4	3399.9	3402.9	3396.9	3435.8	3319.1
50°	3878.7	3854.8	3938.6	3977.5	4061.3	4061.3	3794.9	3762.0	3785.9	3899.7	3750.0
52.5°	4034.4	4019.4	4115.2	4267.8	4516.2	4540.1	4264.8	4196.0	4228.9	4390.5	4330.6
55°	4160.1	4145.1	4255.8	4522.2	4920.2	5066.9	4806.5	4776.6	4710.7	4884.3	4902.3
57.5°	4234.9	4201.9	4369.5	4725.7	5249.4	5587.6	5441.0	5432.0	5279.4	5441.0	5521.8
60°	4121.1	4100.2	4330.6	4809.5	5515.8	6078.5	6186.2	6186.2	5913.9	6000.6	6099.4
62.5°	3753.0	3726.1	3968.5	4615.0	5548.7	6479.5	6925.4	6889.5	6524.4	6521.4	6434.6
65°	3052.7	3019.8	3292.1	3974.5	5132.7	6527.4	7425.2	7404.3	6982.3	6862.6	6455.6
67°	2217.7	2196.7	2430.2	3106.6	4324.7	6111.4	7488.1	7506.0	7164.9	6910.5	6153.3
67.5°	1990.2	1987.2	2181.8	2852.2	4088.2	5958.7	7446.2	7464.1	7161.9	6871.6	6033.6
70°	927.8	969.7	1152.2	1634.1	2756.4	4692.8	6757.8	6826.7	6778.8	6422.6	5081.8
72.5°	431.0	448.9	529.7	790.1	1481.5	3025.8	5476.9	5641.5	5851.0	5509.8	4025.4
75°	266.4	272.3	317.2	410.0	697.3	1454.5	3899.7	4079.2	4396.5	4145.1	2573.8
77.5°	209.5	212.5	242.4	293.3	407.0	625.5	2139.9	2364.3	2777.4	2451.1	1295.9
80°	155.6	161.6	185.6	227.5	287.3	320.2	909.8	993.6	1340.8	1026.5	538.7
82.5°	113.7	119.7	143.7	164.6	200.5	203.5	371.1	392.1	574.6	416.0	233.4
85°	95.8	95.8	110.7	122.7	134.7	113.7	182.6	179.6	221.5	188.5	92.8
87.5°	44.9	47.9	104.7	77.8	65.8	47.9	53.9	56.9	68.8	74.8	35.9
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°	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7	1364.7
2.5°	1361.7	1361.7	1361.7	1364.7	1367.7	1367.7	1370.7	1370.7	1373.7	1376.7	1382.7
5°	1373.7	1373.7	1370.7	1373.7	1379.7	1382.7	1388.7	1394.7	1400.6	1406.6	1409.6
7.5°	1397.7	1394.7	1394.7	1394.7	1400.6	1406.6	1415.6	1421.6	1430.6	1433.6	1439.6
10°	1442.5	1436.6	1436.6	1439.6	1442.5	1433.6	1430.6	1427.6	1436.6	1442.5	1448.5
12.5°	1496.4	1490.4	1487.4	1478.5	1466.5	1448.5	1433.6	1421.6	1424.6	1430.6	1439.6
15°	1553.3	1541.3	1535.3	1514.4	1484.4	1445.5	1421.6	1406.6	1406.6	1406.6	1415.6
17.5°	1613.1	1601.2	1577.2	1538.3	1481.5	1427.6	1397.7	1370.7	1358.8	1355.8	1361.7
20°	1670.0	1652.0	1613.1	1553.3	1463.5	1391.7	1352.8	1307.9	1289.9	1277.9	1283.9
22.5°	1723.9	1699.9	1646.1	1553.3	1433.6	1337.8	1269.0	1209.1	1179.2	1173.2	1176.2
25°	1780.7	1750.8	1679.0	1535.3	1367.7	1257.0	1161.2	1098.4	1059.5	1053.5	1062.5
27.5°	1837.6	1792.7	1705.9	1487.4	1292.9	1146.3	1044.5	984.6	963.7	951.7	954.7
30°	1885.5	1843.6	1732.9	1421.6	1191.2	1017.6	924.8	897.9	882.9	876.9	876.9
32.5°	1948.3	1909.4	1750.8	1343.8	1071.4	900.8	841.0	820.0	808.1	793.1	796.1
35°	2026.2	1990.2	1741.8	1245.0	957.7	823.0	775.1	745.2	718.3	697.3	694.3
37.5°	2130.9	2104.0	1696.9	1125.3	853.0	766.2	718.3	679.4	640.5	607.5	601.6
40°	2304.5	2241.6	1631.1	993.6	781.1	721.3	664.4	616.5	568.6	532.7	523.7
42.5°	2526.0	2394.3	1541.3	858.9	721.3	673.4	616.5	553.7	508.8	475.9	475.9
45°	2783.3	2558.9	1433.6	757.2	658.4	625.5	556.7	502.8	475.9	454.9	451.9
47.5°	3088.6	2723.5	1295.9	676.4	607.5	583.6	514.8	481.8	463.9	445.9	442.9
50°	3498.6	2945.0	1194.1	607.5	556.7	535.7	502.8	475.9	457.9	445.9	442.9
52.5°	3968.5	3229.3	1122.3	553.7	514.8	505.8	499.8	478.9	460.9	451.9	448.9
55°	4477.3	3579.4	1053.5	508.8	481.8	493.8	505.8	484.8	472.9	460.9	454.9
57.5°	4956.1	3875.7	942.7	469.9	457.9	478.9	502.8	487.8	472.9	463.9	460.9
60°	5282.4	4025.4	790.1	434.0	434.0	457.9	493.8	472.9	457.9	460.9	460.9
62.5°	5387.1	3968.5	625.5	401.0	410.0	434.0	466.9	454.9	448.9	463.9	463.9
65°	5231.5	3738.1	499.8	374.1	386.1	404.0	451.9	463.9	481.8	514.8	517.8
67°	4824.5	3366.9	422.0	353.2	365.1	395.1	469.9	511.8	511.8	547.7	547.7
67.5°	4704.7	3241.2	410.0	347.2	362.1	395.1	478.9	523.7	511.8	553.7	553.7
70°	3824.9	2549.9	347.2	329.2	350.2	416.0	517.8	526.7	499.8	538.7	535.7
72.5°	2837.2	1843.6	317.2	311.3	326.2	392.1	514.8	505.8	466.9	478.9	469.9
75°	1753.8	1068.4	293.3	287.3	296.3	347.2	475.9	460.9	416.0	407.0	398.0
77.5°	847.0	541.7	251.4	260.4	269.4	302.3	419.0	404.0	365.1	344.2	341.2
80°	368.1	278.3	215.5	230.4	233.4	257.4	347.2	329.2	293.3	260.4	260.4
82.5°	182.6	155.6	170.6	191.5	185.6	206.5	272.3	242.4	215.5	179.6	173.6
85°	83.8	89.8	125.7	143.7	125.7	128.7	185.6	170.6	134.7	101.8	104.7
87.5°	29.9	41.9	71.8	86.8	62.8	59.9	98.8	71.8	41.9	12.0	15.0
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)