

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: P572759

Luminaire Tested: **ARCH-S-PA2-110-740-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-110-740-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14985 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

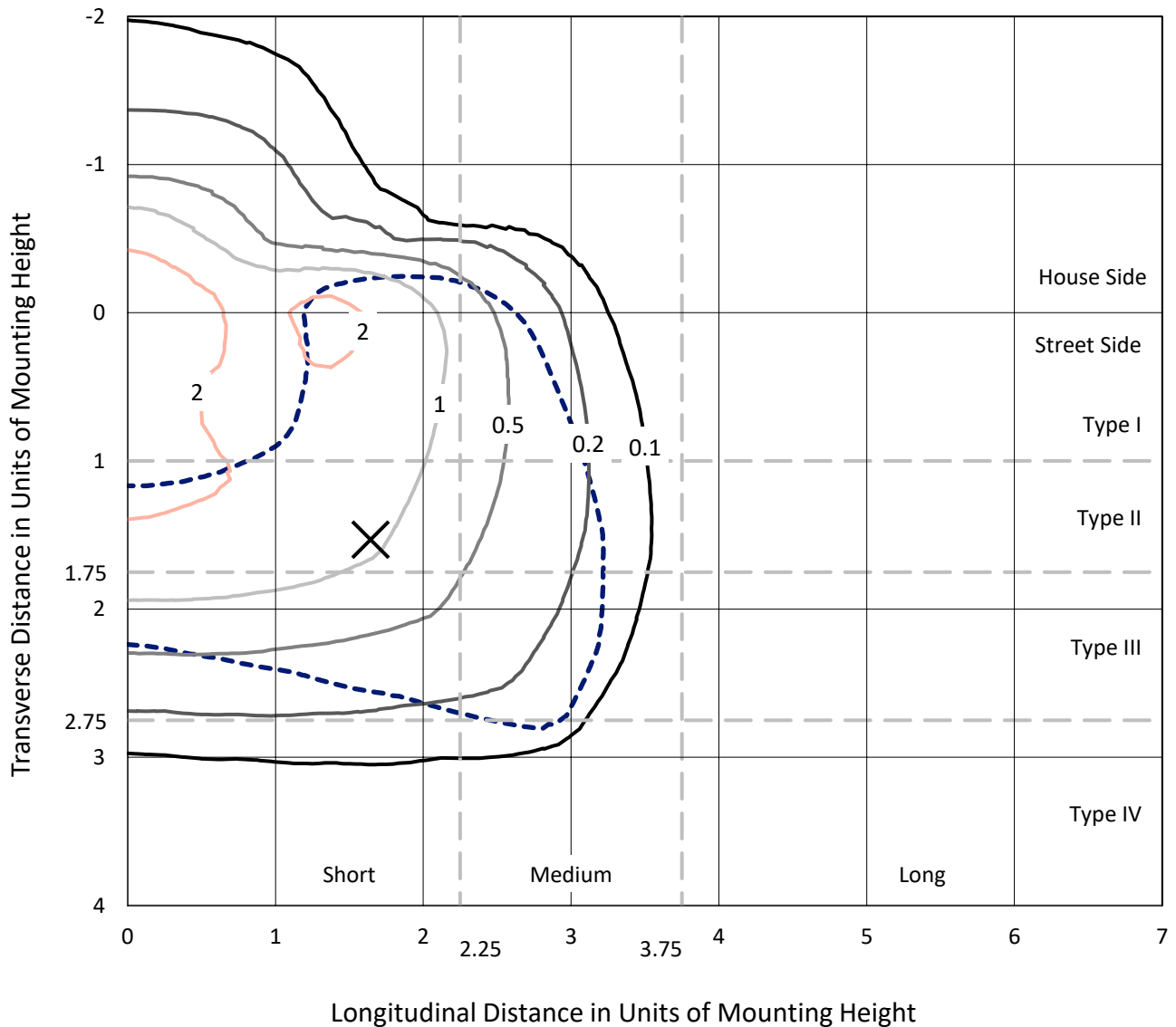
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

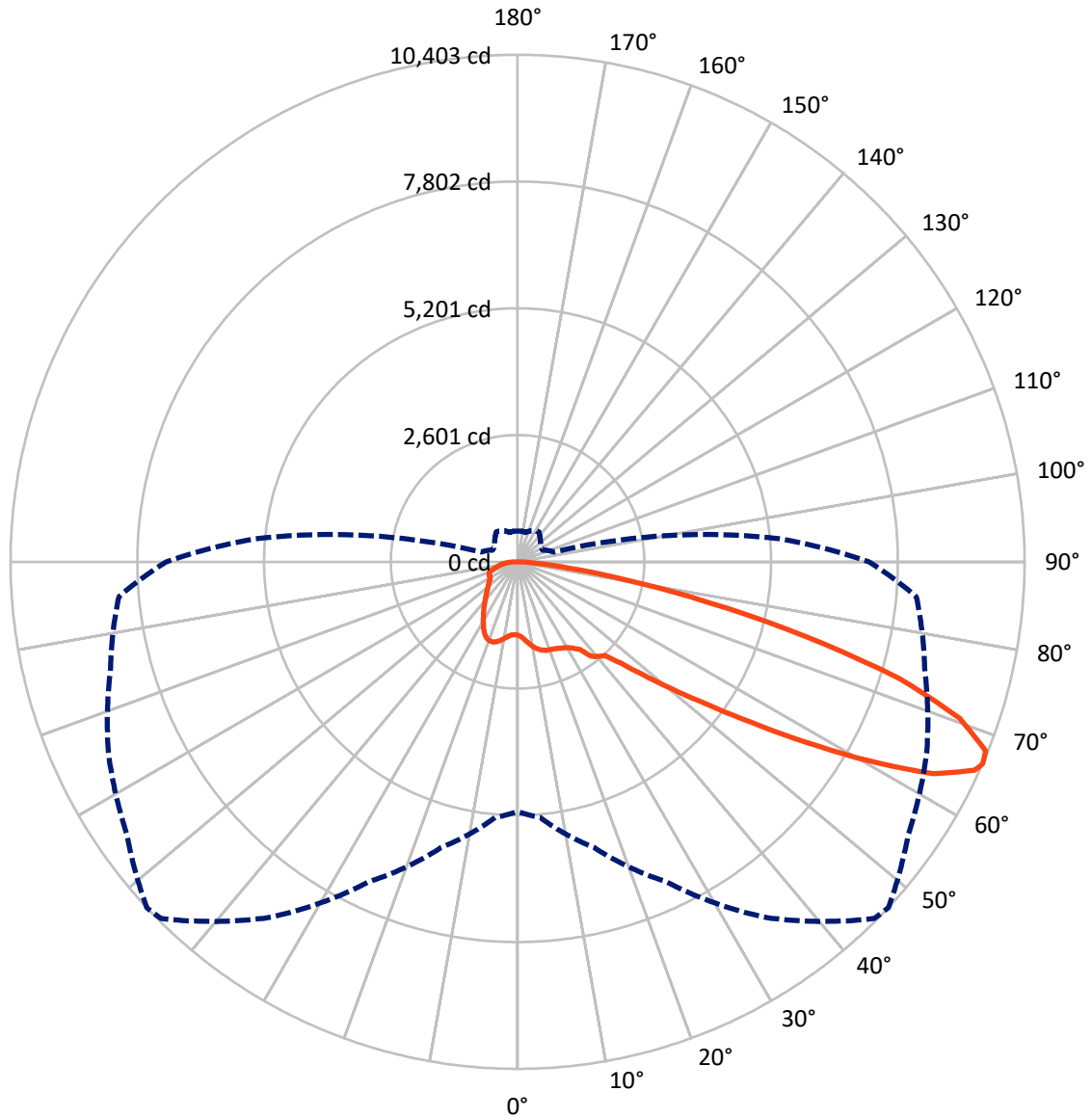
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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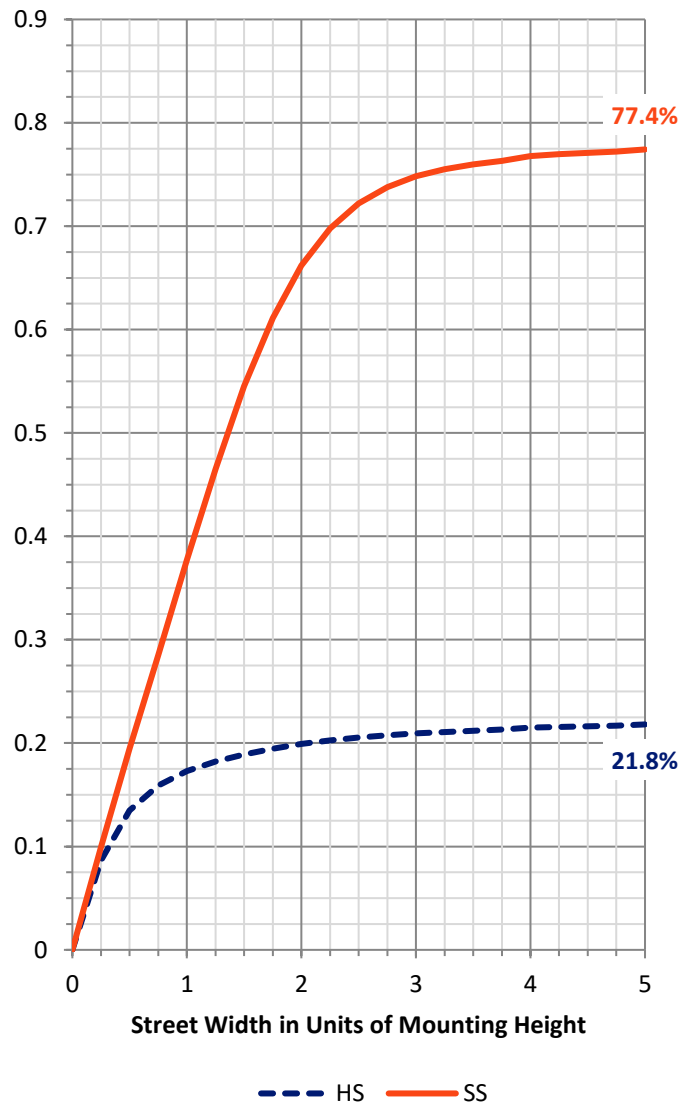
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3331.6	0.0	3331.6
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	11653.4	0.0	11653.4
	% Fixture	77.8	0.0	77.8
Total	Lumens	14985.0	0.0	14985.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.3	1.0
10°-20°	503.0	3.4
20°-30°	838.8	5.6
30°-40°	1218.1	8.1
40°-50°	1863.0	12.4
50°-60°	3521.5	23.5
60°-70°	4550.3	30.4
70°-80°	2045.3	13.6
80°-90°	291.7	1.9
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°	14985.0	100.0
0°-180°	14985.0	100.0

Coefficient of Utilization

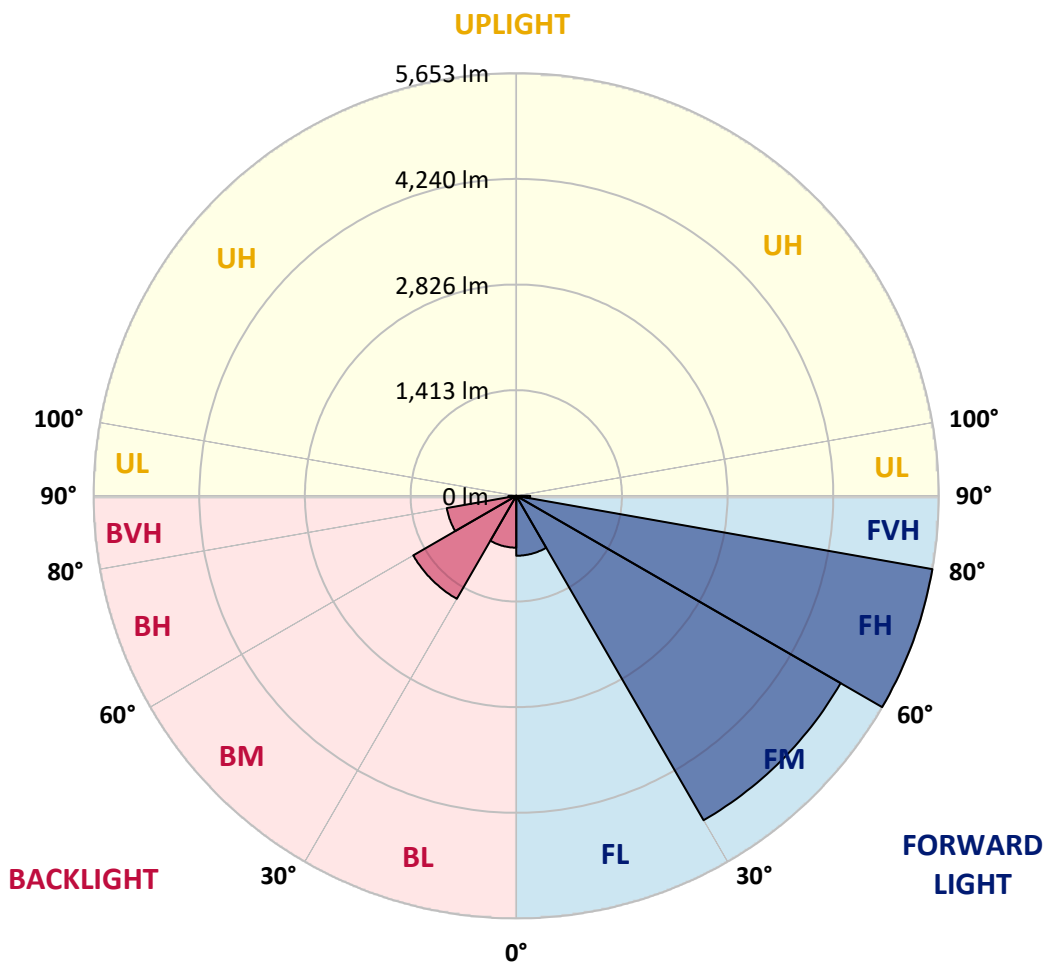


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	801.7	5.4			
FM (30°-60°)	5011.3	33.4			
FH (60°-80°)	5652.9	37.7			G3/7500
FVH (80°-90°)	187.5	1.3			G2/225
BL (0°-30°)	693.3	4.6	B2/1000		
BM (30°-60°)	1591.3	10.6	B2/2500		
BH (60°-80°)	942.7	6.3	B2/1000		G2/1000
BVH (80°-90°)	104.3	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4
2.5°	1591.9	1579.7	1571.6	1567.5	1559.4	1543.1	1543.1	1539.0	1522.7	1514.6	1510.5
5°	1718.2	1710.0	1689.7	1673.4	1649.0	1616.4	1612.3	1587.9	1555.3	1530.9	1514.6
7.5°	1840.3	1832.2	1811.8	1787.4	1746.7	1706.0	1693.7	1661.2	1608.2	1571.6	1543.1
10°	1946.2	1934.0	1909.5	1877.0	1832.2	1787.4	1775.2	1738.5	1685.6	1632.7	1583.8
12.5°	2015.4	2007.2	1978.7	1938.0	1889.2	1844.4	1836.2	1803.7	1750.7	1693.7	1632.7
15°	2048.0	2043.9	2011.3	1970.6	1921.7	1885.1	1881.0	1852.5	1807.7	1750.7	1681.5
17.5°	2039.8	2035.7	2007.2	1966.5	1929.9	1909.5	1909.5	1889.2	1852.5	1803.7	1730.4
20°	1999.1	1999.1	1974.7	1946.2	1925.8	1921.7	1921.7	1917.7	1893.2	1852.5	1779.2
22.5°	1958.4	1958.4	1942.1	1921.7	1917.7	1934.0	1938.0	1946.2	1938.0	1905.5	1840.3
25°	1966.5	1962.5	1942.1	1917.7	1921.7	1958.4	1966.5	1986.9	1982.8	1958.4	1901.4
27.5°	2056.1	2052.0	1999.1	1950.2	1946.2	1991.0	1999.1	2027.6	2027.6	2007.2	1970.6
30°	2280.0	2288.2	2190.5	2068.3	2007.2	2035.7	2043.9	2076.5	2092.7	2100.9	2072.4
32.5°	2622.0	2609.8	2463.2	2263.7	2129.4	2100.9	2113.1	2141.6	2198.6	2214.9	2145.7
35°	2968.1	2976.3	2833.8	2581.3	2324.8	2219.0	2210.8	2251.5	2337.0	2263.7	2141.6
37.5°	3289.8	3277.5	3110.6	2837.8	2581.3	2459.2	2463.2	2447.0	2373.7	2227.1	2170.1
40°	3639.9	3607.3	3468.9	3118.8	2793.0	2589.5	2552.8	2414.4	2353.3	2292.2	2284.1
42.5°	3986.0	3990.1	3876.1	3530.0	3045.5	2683.1	2626.1	2483.6	2524.3	2512.1	2504.0
45°	4421.6	4421.6	4307.6	3986.0	3444.5	3033.3	2955.9	2784.9	2850.0	2898.9	2996.6
47.5°	4820.6	4796.2	4763.6	4490.8	3965.6	3489.3	3456.7	3261.3	3432.3	3582.9	3782.4
50°	5244.1	5211.5	5191.1	5024.2	4649.6	4181.4	4083.7	3880.1	4254.7	4535.6	4906.1
52.5°	5903.6	5846.6	5740.8	5647.1	5500.6	4959.1	4836.9	4686.3	5170.8	5525.0	6282.3
55°	6498.1	6449.2	6347.4	6416.7	6396.3	5903.6	5797.8	5655.3	6180.5	6612.1	7479.3
57.5°	6717.9	6722.0	6860.4	7231.0	7426.4	7141.4	6990.7	6848.2	7292.0	7491.5	8273.3
60°	6819.7	6807.5	7165.8	7768.4	8403.5	8489.0	8297.7	8004.5	8171.5	8183.7	8945.0
62.5°	6599.9	6632.4	7125.1	7992.3	8989.8	9604.6	9576.1	9063.1	8908.4	8737.4	9124.2
65°	5765.2	5810.0	6534.7	7593.3	9083.5	10280.5	10309.0	9710.5	9278.9	8802.5	8615.3
66°	5130.1	5264.4	6070.6	7247.2	8912.5	10349.7	10402.6	9779.7	9262.6	8647.8	8212.2
67.5°	4303.6	4295.4	5195.2	6485.9	8436.1	10288.6	10357.8	9682.0	9042.8	8191.8	7406.0
70°	2634.2	2715.7	3489.3	4841.0	6982.6	9527.3	9620.9	8993.9	8094.1	6937.8	5476.1
72.5°	1351.7	1486.1	1995.0	3147.3	5069.0	7874.2	8191.8	7552.6	6616.2	5020.1	3342.7
75°	716.6	708.4	940.5	1706.0	3236.8	5907.7	6074.7	5663.4	4572.3	2992.5	1701.9
77.5°	382.7	403.1	492.6	875.4	1779.2	3774.3	3986.0	3652.1	2605.7	1530.9	814.3
80°	260.6	272.8	333.9	492.6	964.9	2048.0	2243.4	1946.2	1363.9	724.7	382.7
82.5°	166.9	175.1	228.0	305.4	578.2	993.4	1046.4	997.5	667.7	411.2	232.1
85°	101.8	105.9	138.4	195.4	362.4	403.1	419.4	423.4	374.6	268.7	126.2
87.5°	48.9	52.9	77.4	97.7	171.0	146.6	134.4	138.4	207.6	158.8	57.0
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°	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4	1506.4
2.5°	1506.4	1502.4	1494.2	1490.2	1494.2	1494.2	1494.2	1498.3	1506.4	1506.4	1510.5
5°	1506.4	1498.3	1490.2	1490.2	1498.3	1506.4	1514.6	1530.9	1539.0	1543.1	1543.1
7.5°	1526.8	1518.7	1510.5	1510.5	1522.7	1539.0	1555.3	1575.7	1596.0	1612.3	1612.3
10°	1567.5	1555.3	1547.2	1551.2	1571.6	1591.9	1612.3	1636.7	1657.1	1677.5	1677.5
12.5°	1612.3	1600.1	1587.9	1596.0	1624.5	1649.0	1669.3	1681.5	1701.9	1718.2	1718.2
15°	1657.1	1636.7	1632.7	1649.0	1677.5	1693.7	1701.9	1701.9	1710.0	1726.3	1726.3
17.5°	1706.0	1685.6	1681.5	1697.8	1722.2	1722.2	1706.0	1693.7	1689.7	1701.9	1706.0
20°	1754.8	1734.5	1734.5	1746.7	1742.6	1714.1	1685.6	1665.2	1649.0	1661.2	1665.2
22.5°	1815.9	1795.5	1787.4	1771.1	1734.5	1677.5	1632.7	1608.2	1596.0	1604.2	1612.3
25°	1877.0	1860.7	1840.3	1783.3	1697.8	1608.2	1551.2	1530.9	1534.9	1551.2	1559.4
27.5°	1954.3	1946.2	1897.3	1775.2	1632.7	1510.5	1453.5	1449.4	1465.7	1490.2	1502.4
30°	2048.0	2035.7	1950.2	1750.7	1543.1	1396.5	1355.8	1363.9	1388.4	1408.7	1420.9
32.5°	2113.1	2105.0	1974.7	1693.7	1433.2	1294.7	1262.2	1262.2	1274.4	1302.9	1315.1
35°	2133.5	2166.0	1991.0	1608.2	1302.9	1205.2	1172.6	1152.2	1152.2	1176.7	1184.8
37.5°	2202.7	2276.0	1999.1	1494.2	1197.0	1123.7	1083.0	1046.4	1034.2	1030.1	1030.1
40°	2361.5	2447.0	1995.0	1347.7	1095.2	1042.3	993.4	952.7	920.2	875.4	879.4
42.5°	2638.3	2703.5	1982.8	1192.9	1005.7	969.0	920.2	871.3	818.4	769.5	765.4
45°	3171.7	3074.0	1950.2	1058.6	924.2	903.9	859.1	802.1	736.9	692.2	692.2
47.5°	4014.5	3745.8	1929.9	932.4	850.9	846.9	806.2	745.1	679.9	647.4	643.3
50°	5170.8	4674.1	1962.5	842.8	785.8	798.0	765.4	708.4	655.5	627.0	622.9
52.5°	6498.1	5671.6	1999.1	785.8	736.9	761.4	745.1	692.2	639.2	614.8	610.7
55°	7524.1	6481.8	1946.2	732.9	688.1	724.7	724.7	675.9	631.1	606.7	606.7
57.5°	8244.8	6807.5	1763.0	684.0	647.4	692.2	704.4	667.7	627.0	618.9	618.9
60°	8554.2	6791.2	1441.3	639.2	618.9	659.6	692.2	659.6	635.2	655.5	659.6
62.5°	8387.3	6437.0	1119.7	606.7	598.5	651.4	704.4	692.2	663.7	679.9	688.1
65°	7634.0	5814.1	842.8	578.2	574.1	655.5	736.9	712.5	643.3	647.4	651.4
66°	7210.6	5394.7	773.6	570.0	565.9	659.6	753.2	704.4	627.0	635.2	631.1
67.5°	6306.7	4735.1	679.9	553.7	549.7	659.6	773.6	688.1	606.7	618.9	606.7
70°	4625.2	3350.8	582.2	533.4	525.2	647.4	769.5	655.5	561.9	553.7	533.4
72.5°	2683.1	2027.6	517.1	508.9	488.6	570.0	720.7	602.6	513.0	488.6	468.2
75°	1319.2	1030.1	460.1	480.4	427.5	500.8	651.4	557.8	472.3	439.7	427.5
77.5°	606.7	521.1	415.3	439.7	378.6	431.6	594.4	508.9	419.4	370.5	358.3
80°	329.8	325.7	350.1	366.4	317.6	378.6	525.2	443.8	354.2	301.3	285.0
82.5°	203.6	207.6	256.5	280.9	248.4	329.8	464.1	370.5	268.7	211.7	215.8
85°	105.9	118.1	171.0	187.3	162.9	244.3	350.1	248.4	150.6	109.9	109.9
87.5°	36.6	48.9	85.5	101.8	89.6	146.6	219.9	118.1	32.6	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)