

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: P572921

Luminaire Tested: **ARCH-S-PA2-130-740-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572921
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-PA2-130-740-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16154 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

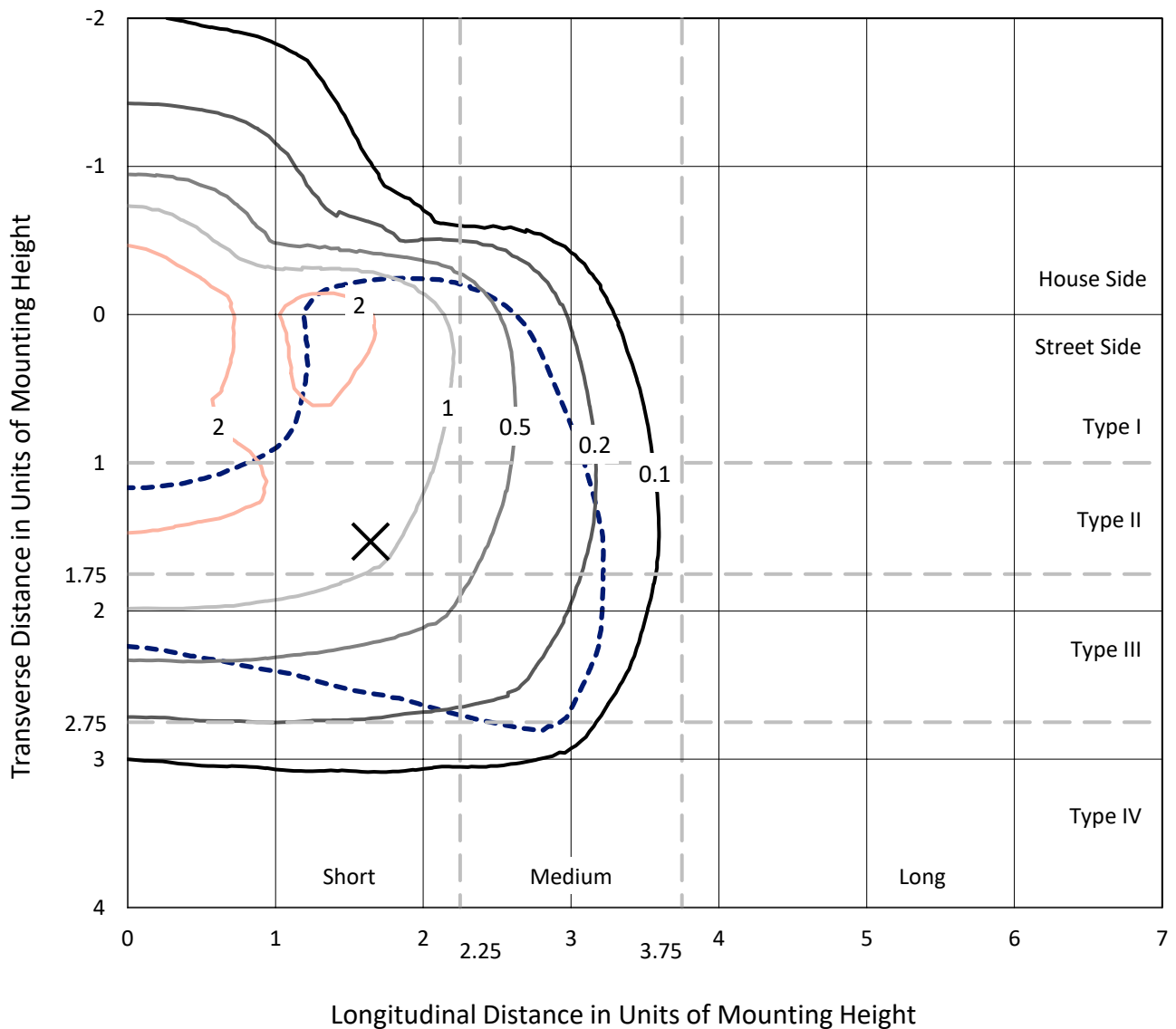
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

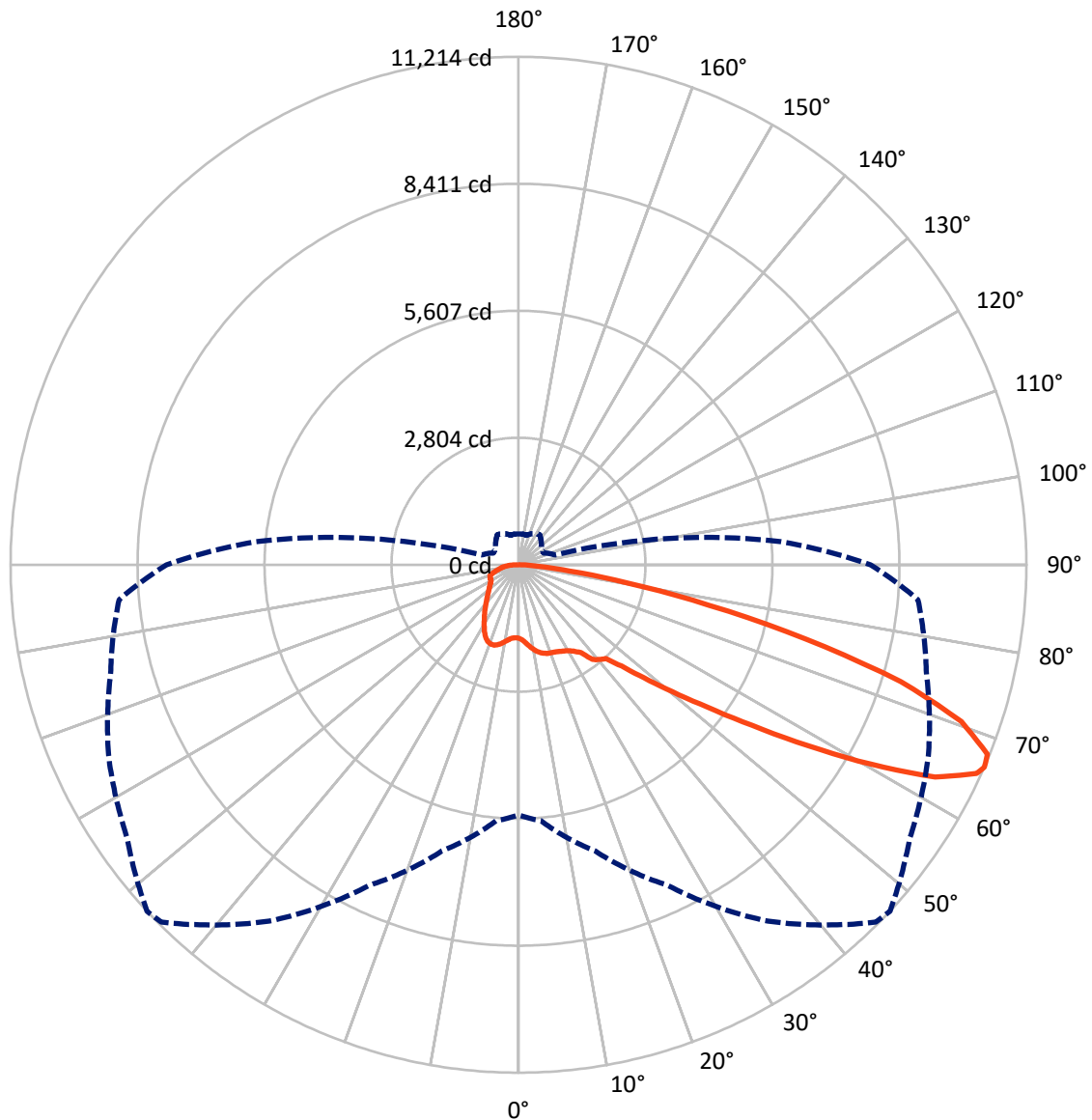
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - N/A

REPORT NUMBER: P572921
CATALOG NUMBER: ARCH-S-PA2-130-740-U-T4W

Luminous Intensity Polar Plot



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

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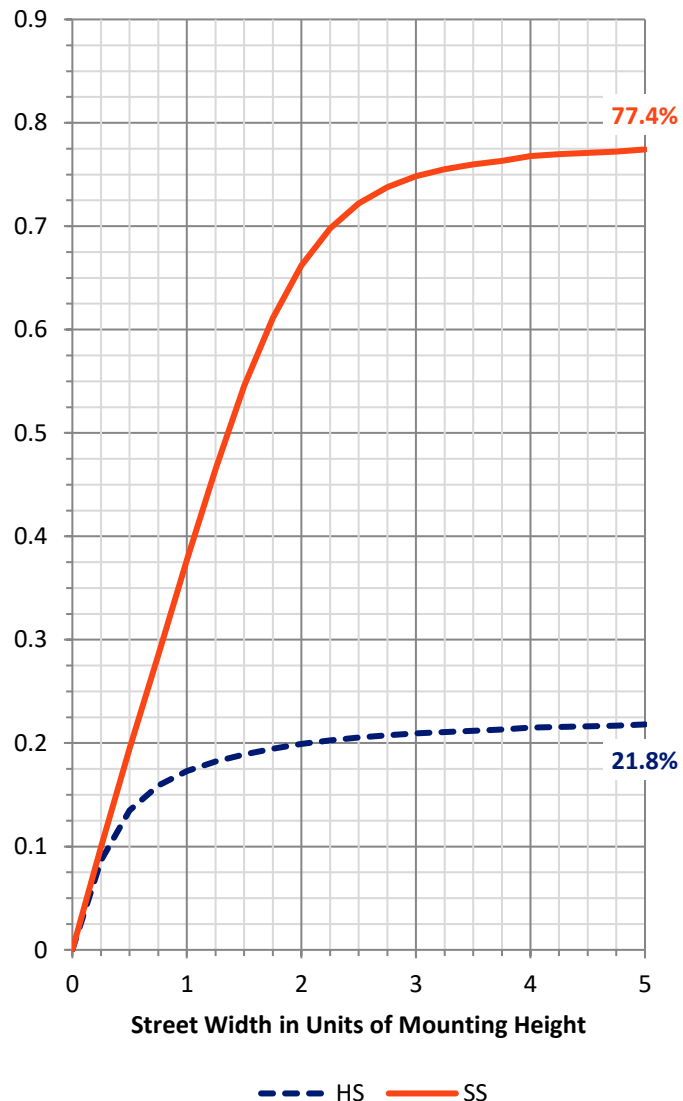
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3591.5	0.0	3591.5
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	12562.5	0.0	12562.5
	% Fixture	77.8	0.0	77.8
Total	Lumens	16154.0	0.0	16154.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.2	1.0
10°-20°	542.2	3.4
20°-30°	904.3	5.6
30°-40°	1313.2	8.1
40°-50°	2008.3	12.4
50°-60°	3796.2	23.5
60°-70°	4905.2	30.4
70°-80°	2204.9	13.6
80°-90°	314.5	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°	16154.0	100.0
0°-180°	16154.0	100.0

Coefficient of Utilization



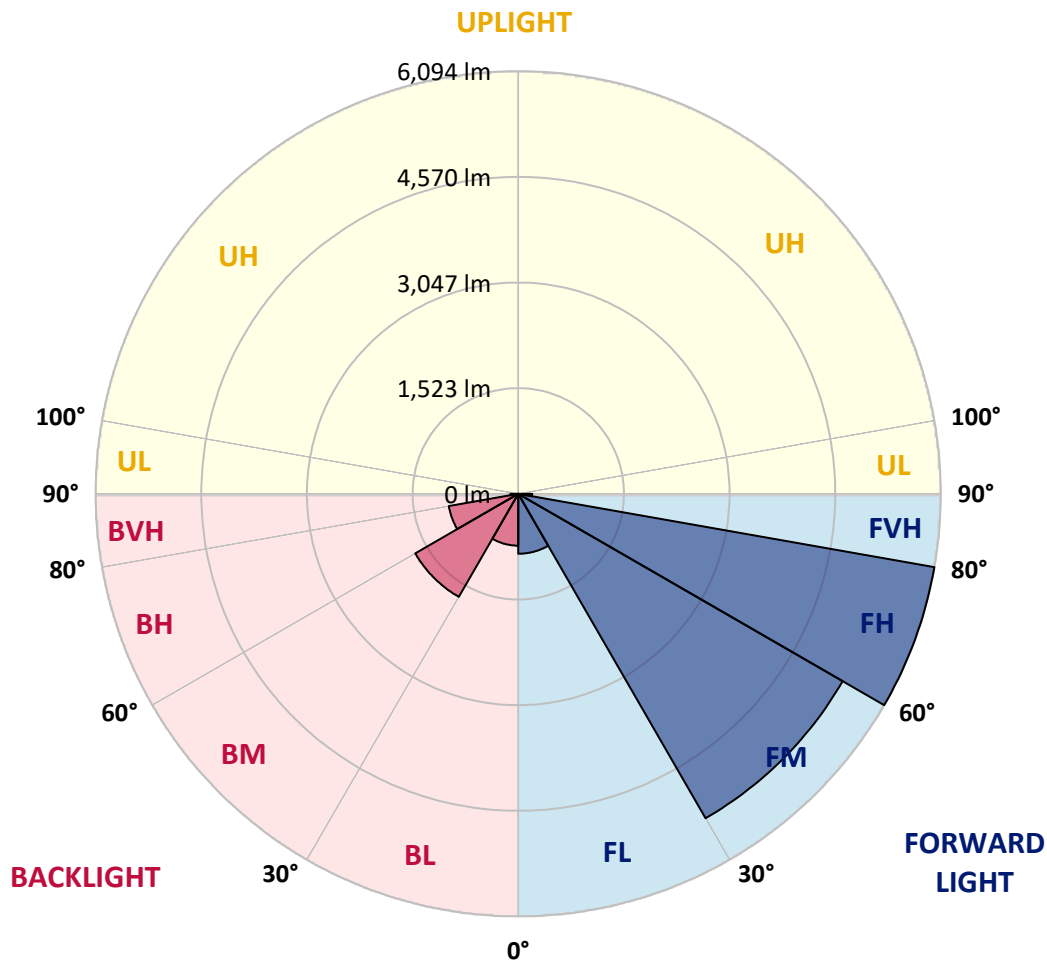
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 CATALOG NUMBER: ARCH-S-PA2-130-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	864.3	5.4			
FM	(30°-60°)	5402.2	33.4			
FH	(60°-80°)	6093.9	37.7			G3/7500
FVH	(80°-90°)	202.1	1.3			G2/225
BL	(0°-30°)	747.4	4.6	B2/1000		
BM	(30°-60°)	1715.5	10.6	B2/2500		
BH	(60°-80°)	1016.2	6.3	B3/2500		G3/2500
BVH	(80°-90°)	112.4	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0
2.5°	1716.1	1703.0	1694.2	1689.8	1681.0	1663.5	1663.5	1659.1	1641.5	1632.7	1628.4
5°	1852.2	1843.4	1821.5	1803.9	1777.6	1742.5	1738.1	1711.8	1676.6	1650.3	1632.7
7.5°	1983.9	1975.1	1953.2	1926.8	1882.9	1839.0	1825.9	1790.8	1733.7	1694.2	1663.5
10°	2098.0	2084.8	2058.5	2023.4	1975.1	1926.8	1913.6	1874.1	1817.1	1760.0	1707.4
12.5°	2172.6	2163.8	2133.1	2089.2	2036.5	1988.3	1979.5	1944.4	1887.3	1825.9	1760.0
15°	2207.7	2203.3	2168.2	2124.3	2071.7	2032.2	2027.8	1997.0	1948.8	1887.3	1812.7
17.5°	2198.9	2194.6	2163.8	2119.9	2080.4	2058.5	2058.5	2036.5	1997.0	1944.4	1865.4
20°	2155.0	2155.0	2128.7	2098.0	2076.0	2071.7	2071.7	2067.3	2040.9	1997.0	1918.0
22.5°	2111.2	2111.2	2093.6	2071.7	2067.3	2084.8	2089.2	2098.0	2089.2	2054.1	1983.9
25°	2119.9	2115.5	2093.6	2067.3	2071.7	2111.2	2119.9	2141.9	2137.5	2111.2	2049.7
27.5°	2216.5	2212.1	2155.0	2102.4	2098.0	2146.3	2155.0	2185.8	2185.8	2163.8	2124.3
30°	2457.9	2466.7	2361.3	2229.7	2163.8	2194.6	2203.3	2238.4	2256.0	2264.8	2234.1
32.5°	2826.6	2813.4	2655.4	2440.3	2295.5	2264.8	2277.9	2308.7	2370.1	2387.7	2313.1
35°	3199.7	3208.4	3054.8	2782.7	2506.2	2392.1	2383.3	2427.2	2519.3	2440.3	2308.7
37.5°	3546.4	3533.2	3353.3	3059.2	2782.7	2651.0	2655.4	2637.9	2558.8	2400.8	2339.4
40°	3923.9	3888.7	3739.5	3362.1	3010.9	2791.5	2752.0	2602.7	2536.9	2471.1	2462.3
42.5°	4296.9	4301.3	4178.4	3805.4	3283.0	2892.4	2831.0	2677.4	2721.2	2708.1	2699.3
45°	4766.6	4766.6	4643.7	4296.9	3713.2	3269.9	3186.5	3002.1	3072.4	3125.0	3230.4
47.5°	5196.7	5170.4	5135.3	4841.2	4275.0	3761.5	3726.3	3515.7	3700.0	3862.4	4077.5
50°	5653.2	5618.1	5596.1	5416.2	5012.4	4507.6	4402.3	4182.8	4586.6	4889.5	5288.9
52.5°	6364.2	6302.8	6188.6	6087.7	5929.7	5345.9	5214.3	5051.9	5574.2	5956.0	6772.4
55°	7005.0	6952.3	6842.6	6917.2	6895.3	6364.2	6250.1	6096.5	6662.7	7127.9	8062.8
57.5°	7242.0	7246.4	7395.6	7795.0	8005.7	7698.5	7536.1	7382.5	7860.9	8076.0	8918.7
60°	7351.7	7338.6	7724.8	8374.4	9059.1	9151.3	8945.0	8629.0	8808.9	8822.1	9642.9
62.5°	7114.7	7149.8	7680.9	8615.8	9691.1	10353.9	10323.2	9770.1	9603.4	9419.0	9836.0
65°	6215.0	6263.3	7044.5	8185.7	9792.1	11082.5	11113.2	10468.0	10002.8	9489.2	9287.3
66°	5530.3	5675.1	6544.2	7812.6	9607.7	11157.1	11214.2	10542.6	9985.2	9322.5	8852.8
67.5°	4639.3	4630.5	5600.5	6991.8	9094.2	11091.3	11165.9	10437.3	9748.2	8830.9	7983.8
70°	2839.7	2927.5	3761.5	5218.6	7527.3	10270.5	10371.5	9695.5	8725.5	7479.0	5903.3
72.5°	1457.2	1602.0	2150.7	3392.8	5464.4	8488.5	8830.9	8141.8	7132.3	5411.8	3603.5
75°	772.5	763.7	1013.9	1839.0	3489.3	6368.6	6548.5	6105.2	4929.0	3226.0	1834.6
77.5°	412.6	434.5	531.1	943.7	1918.0	4068.7	4296.9	3937.0	2809.0	1650.3	877.8
80°	280.9	294.1	359.9	531.1	1040.2	2207.7	2418.4	2098.0	1470.3	781.3	412.6
82.5°	180.0	188.7	245.8	329.2	623.3	1070.9	1128.0	1075.3	719.8	443.3	250.2
85°	109.7	114.1	149.2	210.7	390.6	434.5	452.1	456.5	403.8	289.7	136.1
87.5°	52.7	57.1	83.4	105.3	184.3	158.0	144.8	149.2	223.8	171.2	61.4
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°	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0	1624.0
2.5°	1624.0	1619.6	1610.8	1606.4	1610.8	1610.8	1610.8	1615.2	1624.0	1624.0	1628.4
5°	1624.0	1615.2	1606.4	1606.4	1615.2	1624.0	1632.7	1650.3	1659.1	1663.5	1663.5
7.5°	1645.9	1637.1	1628.4	1628.4	1641.5	1659.1	1676.6	1698.6	1720.5	1738.1	1738.1
10°	1689.8	1676.6	1667.9	1672.2	1694.2	1716.1	1738.1	1764.4	1786.4	1808.3	1808.3
12.5°	1738.1	1724.9	1711.8	1720.5	1751.3	1777.6	1799.5	1812.7	1834.6	1852.2	1852.2
15°	1786.4	1764.4	1760.0	1777.6	1808.3	1825.9	1834.6	1834.6	1843.4	1861.0	1861.0
17.5°	1839.0	1817.1	1812.7	1830.3	1856.6	1856.6	1839.0	1825.9	1821.5	1834.6	1839.0
20°	1891.7	1869.8	1869.8	1882.9	1878.5	1847.8	1817.1	1795.1	1777.6	1790.8	1795.1
22.5°	1957.5	1935.6	1926.8	1909.3	1869.8	1808.3	1760.0	1733.7	1720.5	1729.3	1738.1
25°	2023.4	2005.8	1983.9	1922.4	1830.3	1733.7	1672.2	1650.3	1654.7	1672.2	1681.0
27.5°	2106.8	2098.0	2045.3	1913.6	1760.0	1628.4	1566.9	1562.5	1580.1	1606.4	1619.6
30°	2207.7	2194.6	2102.4	1887.3	1663.5	1505.5	1461.6	1470.3	1496.7	1518.6	1531.8
32.5°	2277.9	2269.2	2128.7	1825.9	1545.0	1395.7	1360.6	1360.6	1373.8	1404.5	1417.7
35°	2299.9	2335.0	2146.3	1733.7	1404.5	1299.2	1264.1	1242.1	1242.1	1268.5	1277.2
37.5°	2374.5	2453.5	2155.0	1610.8	1290.4	1211.4	1167.5	1128.0	1114.8	1110.4	1110.4
40°	2545.7	2637.9	2150.7	1452.8	1180.7	1123.6	1070.9	1027.1	991.9	943.7	948.0
42.5°	2844.1	2914.4	2137.5	1286.0	1084.1	1044.6	991.9	939.3	882.2	829.5	825.2
45°	3419.1	3313.8	2102.4	1141.2	996.3	974.4	926.1	864.7	794.4	746.1	746.1
47.5°	4327.7	4038.0	2080.4	1005.1	917.3	912.9	869.0	803.2	733.0	697.9	693.5
50°	5574.2	5038.7	2115.5	908.5	847.1	860.3	825.2	763.7	706.6	675.9	671.5
52.5°	7005.0	6114.0	2155.0	847.1	794.4	820.8	803.2	746.1	689.1	662.8	658.4
55°	8111.1	6987.5	2098.0	790.0	741.8	781.3	781.3	728.6	680.3	654.0	654.0
57.5°	8887.9	7338.6	1900.5	737.4	697.9	746.1	759.3	719.8	675.9	667.1	667.1
60°	9221.5	7321.0	1553.7	689.1	667.1	711.0	746.1	711.0	684.7	706.6	711.0
62.5°	9041.6	6939.2	1207.0	654.0	645.2	702.3	759.3	746.1	715.4	733.0	741.8
65°	8229.6	6267.6	908.5	623.3	618.9	706.6	794.4	768.1	693.5	697.9	702.3
66°	7773.1	5815.6	833.9	614.5	610.1	711.0	812.0	759.3	675.9	684.7	680.3
67.5°	6798.7	5104.5	733.0	596.9	592.5	711.0	833.9	741.8	654.0	667.1	654.0
70°	4986.0	3612.2	627.6	575.0	566.2	697.9	829.5	706.6	605.7	596.9	575.0
72.5°	2892.4	2185.8	557.4	548.6	526.7	614.5	776.9	649.6	553.0	526.7	504.7
75°	1422.1	1110.4	496.0	517.9	460.9	539.9	702.3	601.3	509.1	474.0	460.9
77.5°	654.0	561.8	447.7	474.0	408.2	465.2	640.8	548.6	452.1	399.4	386.2
80°	355.5	351.1	377.5	395.0	342.4	408.2	566.2	478.4	381.9	324.8	307.2
82.5°	219.5	223.8	276.5	302.8	267.7	355.5	500.4	399.4	289.7	228.2	232.6
85°	114.1	127.3	184.3	201.9	175.6	263.3	377.5	267.7	162.4	118.5	118.5
87.5°	39.5	52.7	92.2	109.7	96.6	158.0	237.0	127.3	35.1	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)