

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: P572836

Luminaire Tested: **ARCH-S-PA2-120-740-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572836
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-120-740-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15442 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

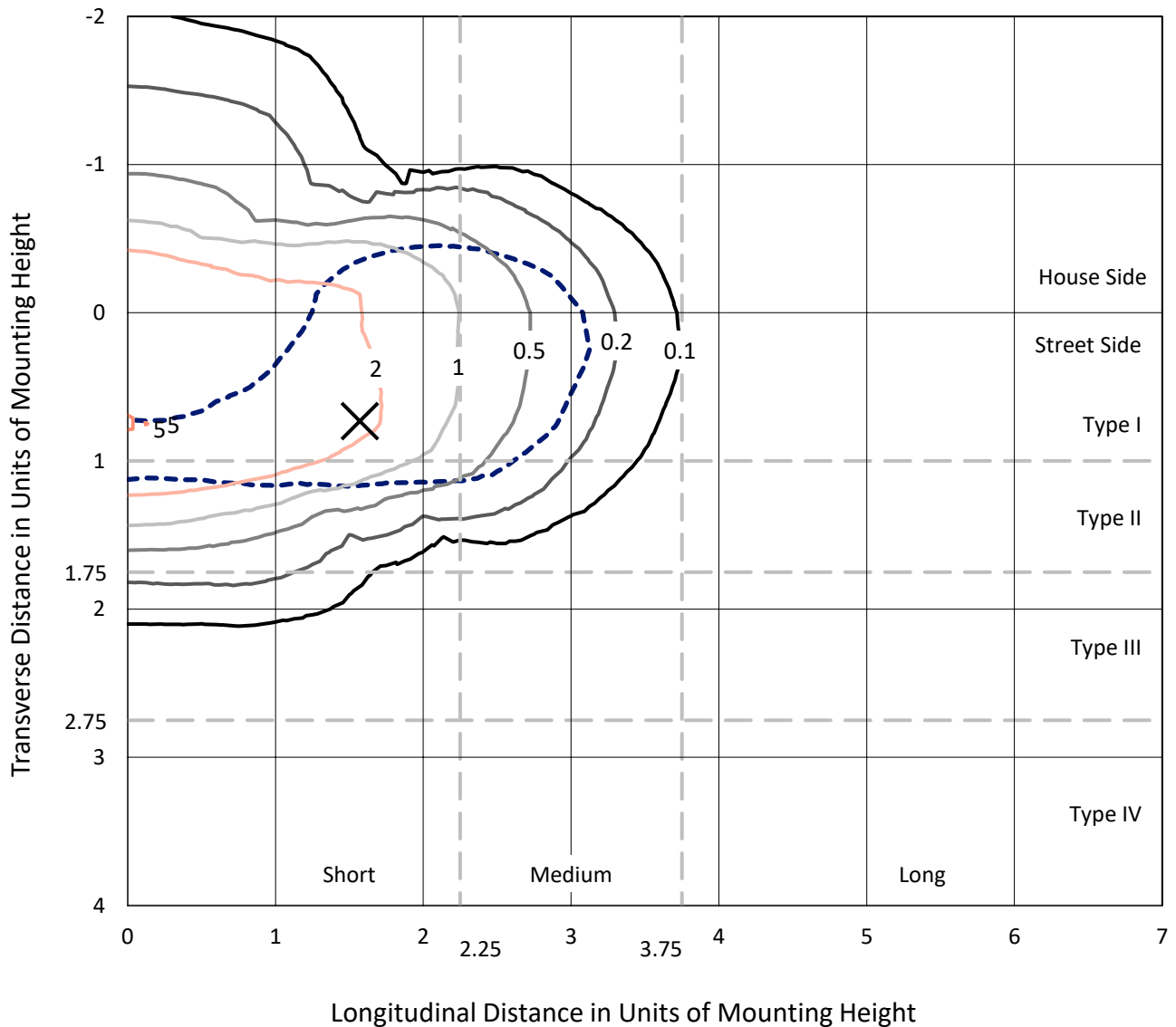
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

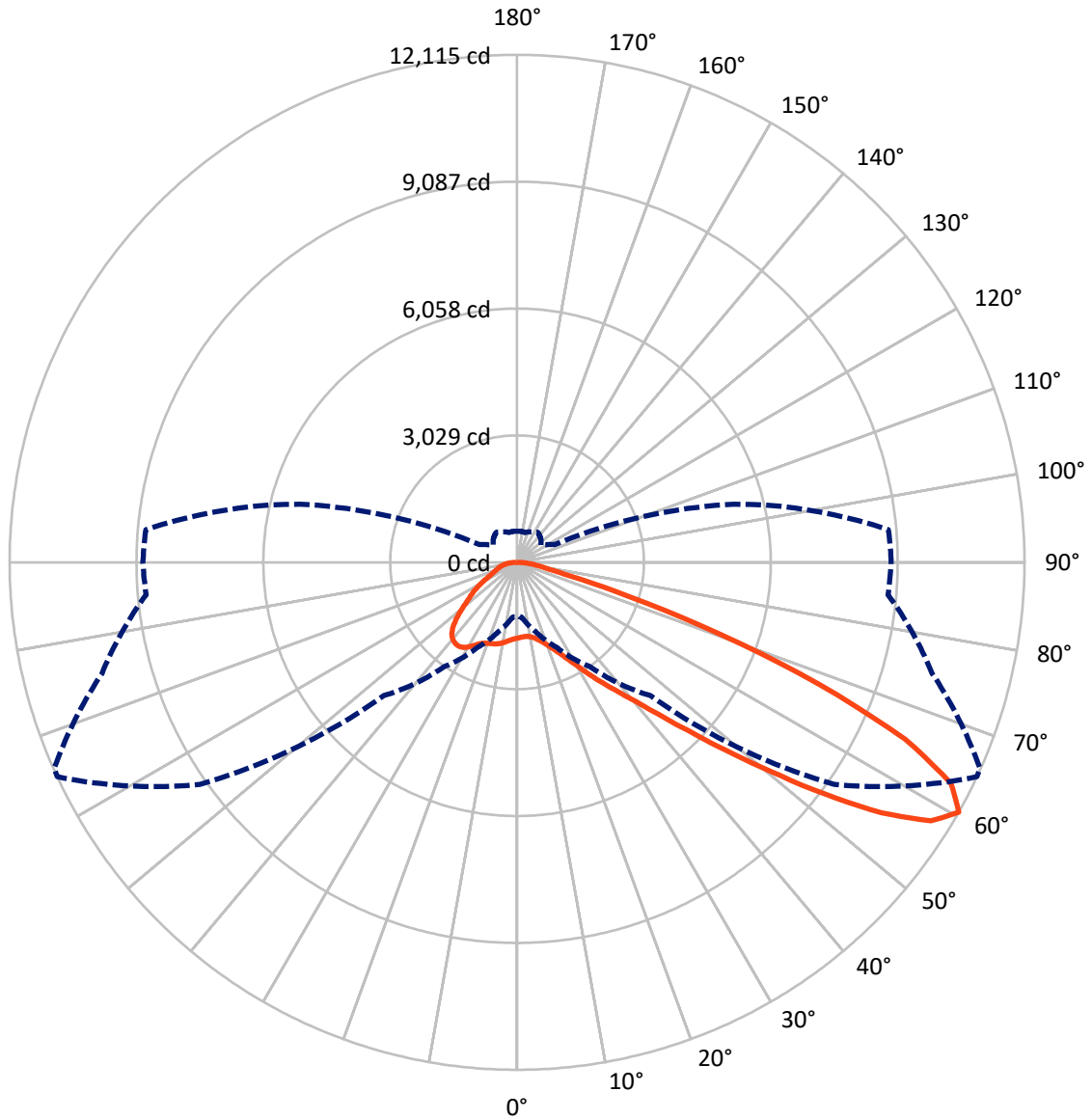
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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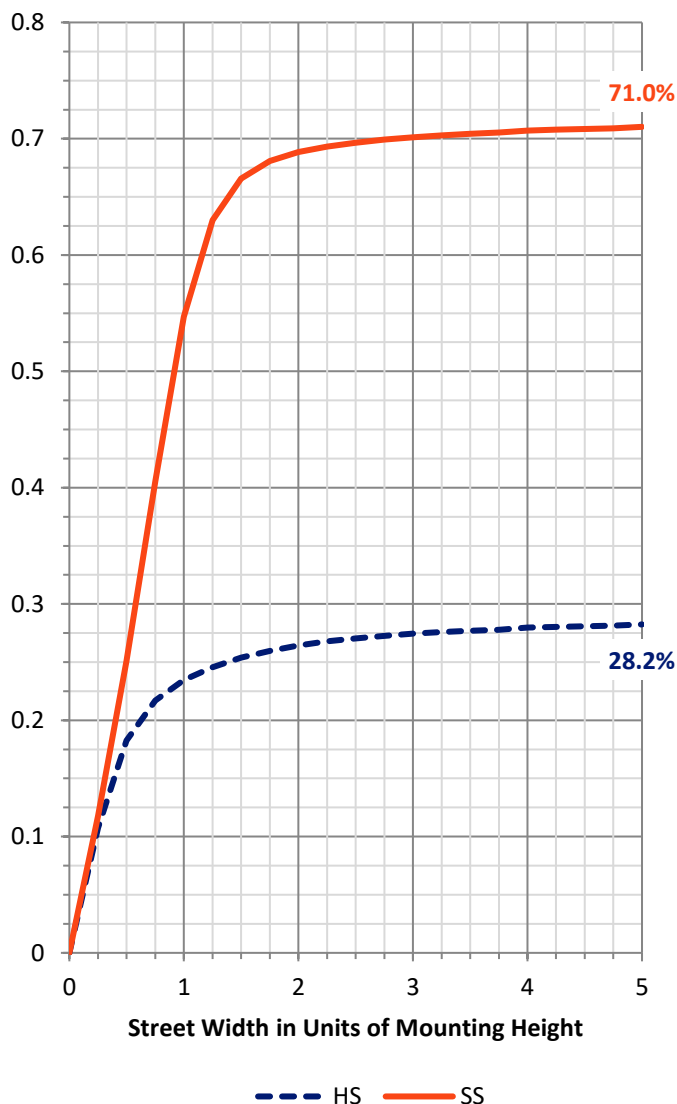
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4420.6	0.0	4420.6
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	11021.4	0.0	11021.4
	% Fixture	71.4	0.0	71.4
Total	Lumens	15442.0	0.0	15442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	1.1
10°-20°	563.4	3.6
20°-30°	1080.0	7.0
30°-40°	1875.7	12.1
40°-50°	3181.1	20.6
50°-60°	3961.1	25.7
60°-70°	3192.0	20.7
70°-80°	1208.7	7.8
80°-90°	205.0	1.3
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°	15442.0	100.0
0°-180°	15442.0	100.0

Coefficient of Utilization



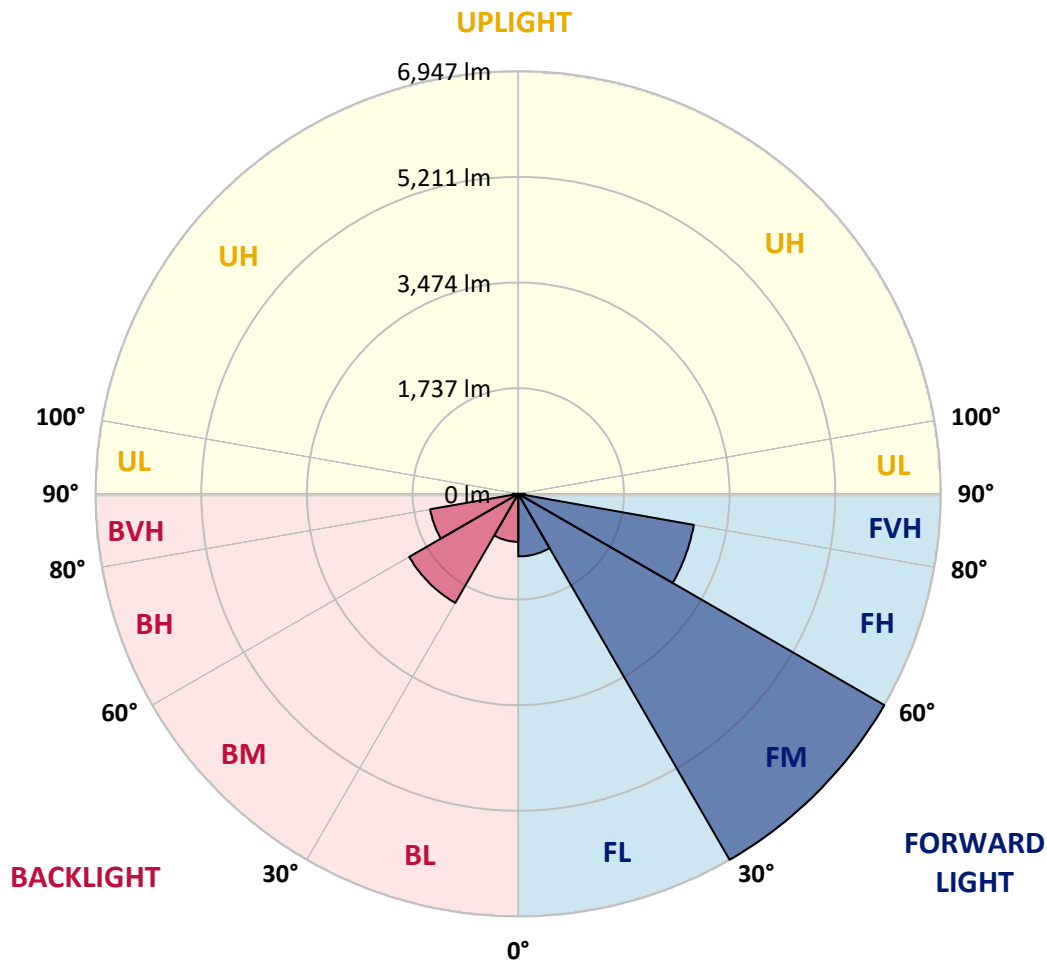
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1029.5	6.7			
FM (30°-60°)	6947.4	45.0			
FH (60°-80°)	2930.8	19.0			G2/5000
FVH (80°-90°)	113.7	0.7			G2/225
BL (0°-30°)	788.9	5.1	B2/1000		
BM (30°-60°)	2070.5	13.4	B2/2500		
BH (60°-80°)	1469.8	9.5	B3/2500		G3/2500
BVH (80°-90°)	91.3	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8
2.5°	1769.5	1769.5	1769.5	1773.7	1777.9	1782.2	1790.6	1790.6	1790.6	1794.9	1803.3
5°	1735.6	1731.4	1735.6	1739.8	1748.3	1756.8	1773.7	1782.2	1782.2	1799.1	1816.0
7.5°	1739.8	1731.4	1731.4	1735.6	1744.1	1752.5	1769.5	1782.2	1786.4	1807.6	1837.2
10°	1782.2	1769.5	1769.5	1773.7	1773.7	1782.2	1794.9	1811.8	1816.0	1837.2	1866.8
12.5°	1871.1	1858.4	1854.1	1841.4	1828.7	1837.2	1849.9	1854.1	1858.4	1871.1	1900.7
15°	2057.3	2036.2	2002.3	1976.9	1943.0	1921.9	1917.6	1921.9	1921.9	1926.1	1943.0
17.5°	2324.0	2298.6	2247.8	2192.8	2112.4	2044.6	2023.5	2006.5	2006.5	1993.8	1993.8
20°	2650.0	2611.9	2552.6	2472.2	2353.7	2230.9	2158.9	2120.8	2108.1	2087.0	2057.3
22.5°	3026.7	3001.3	2925.1	2802.4	2624.6	2459.5	2341.0	2256.3	2256.3	2205.5	2142.0
25°	3471.2	3424.7	3335.8	3191.8	2950.5	2713.5	2552.6	2429.9	2417.2	2336.7	2235.1
27.5°	3903.0	3873.4	3763.3	3572.8	3285.0	3009.8	2785.4	2641.5	2620.4	2493.4	2336.7
30°	4427.9	4394.1	4229.0	3962.3	3653.3	3340.0	3077.5	2891.3	2870.1	2696.6	2476.4
32.5°	5079.8	4965.5	4762.4	4457.6	4059.6	3708.3	3407.7	3208.8	3183.4	2984.4	2721.9
35°	5871.5	5774.1	5422.7	5101.0	4626.9	4165.5	3805.6	3543.2	3509.3	3272.3	2942.1
37.5°	6430.2	6383.7	6142.4	5888.4	5346.5	4724.3	4284.0	3919.9	3886.1	3572.8	3145.3
40°	6781.6	6735.0	6667.3	6595.3	6294.8	5592.1	4859.7	4364.4	4309.4	4013.1	3551.7
42.5°	6963.6	6925.5	6938.2	7082.1	7166.8	7056.7	5681.0	4957.1	4919.0	4559.2	4046.9
45°	6857.8	6832.4	6955.2	7336.1	7751.0	8563.8	6735.0	5736.0	5634.4	5206.8	4648.1
47.5°	6349.8	6273.6	6561.5	7209.1	8098.1	9283.4	8005.0	6696.9	6586.9	5973.0	5257.6
50°	5304.2	5283.0	5676.7	6498.0	7962.7	9567.0	9363.8	7831.4	7751.0	6798.5	5935.0
52.5°	4330.6	4322.1	4626.9	5380.4	7099.1	9368.1	10350.2	9181.8	8940.5	7628.2	6671.5
55°	3361.2	3356.9	3627.9	4190.9	5664.0	8432.5	10815.8	10557.6	10379.8	8534.1	7429.3
57.5°	2298.6	2269.0	2620.4	3047.9	4254.4	6680.0	10511.0	11645.5	11535.5	9495.1	8233.6
60°	1278.4	1320.8	1710.2	2239.4	3043.7	4499.9	9241.1	12115.4	12098.5	10261.3	8889.7
62.5°	905.9	922.8	1087.9	1591.7	2002.3	2578.0	7128.7	11628.6	11764.1	10684.6	9262.2
65°	753.5	762.0	842.4	1176.8	1464.7	1490.1	4444.9	10185.1	10362.9	10553.4	9342.7
67.5°	711.2	715.4	757.7	867.8	1147.2	1079.5	1985.4	7776.4	8153.1	9495.1	8817.8
70°	647.7	651.9	715.4	766.2	927.1	850.9	1020.2	5164.5	5672.5	7505.5	7602.8
72.5°	554.5	567.2	618.0	719.6	753.5	706.9	787.4	2760.0	3263.8	5020.6	5871.5
75°	478.4	486.8	524.9	609.6	706.9	563.0	668.8	1257.3	1473.2	2946.3	3716.8
77.5°	385.2	389.5	444.5	499.5	592.6	457.2	520.7	753.5	791.6	1439.3	1680.6
80°	292.1	292.1	330.2	397.9	440.3	440.3	381.0	524.9	546.1	685.8	664.6
82.5°	224.4	220.1	249.8	279.4	317.5	368.3	287.9	347.1	355.6	414.9	355.6
85°	148.2	148.2	165.1	190.5	211.7	203.2	224.4	203.2	211.7	258.2	194.7
87.5°	63.5	63.5	88.9	84.7	93.1	97.4	110.1	97.4	97.4	118.5	88.9
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°	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8	1811.8
2.5°	1807.6	1811.8	1820.3	1824.5	1837.2	1841.4	1841.4	1849.9	1849.9	1858.4	1858.4
5°	1820.3	1833.0	1845.7	1858.4	1871.1	1875.3	1883.8	1888.0	1888.0	1896.5	1892.2
7.5°	1845.7	1858.4	1883.8	1896.5	1913.4	1921.9	1917.6	1921.9	1917.6	1921.9	1921.9
10°	1879.5	1896.5	1926.1	1943.0	1955.7	1960.0	1947.3	1934.6	1917.6	1917.6	1917.6
12.5°	1917.6	1930.3	1968.4	1981.1	1989.6	1976.9	1943.0	1917.6	1904.9	1909.2	1904.9
15°	1955.7	1968.4	1998.1	2010.8	2010.8	1972.7	1943.0	1934.6	1930.3	1934.6	1934.6
17.5°	1993.8	2006.5	2031.9	2031.9	2019.2	1989.6	1960.0	1930.3	1909.2	1896.5	1896.5
20°	2044.6	2044.6	2053.1	2053.1	2048.9	2002.3	1930.3	1858.4	1816.0	1790.6	1786.4
22.5°	2112.4	2095.4	2078.5	2078.5	2095.4	1972.7	1833.0	1722.9	1655.2	1646.7	1629.8
25°	2184.3	2146.2	2103.9	2133.5	2103.9	1896.5	1697.5	1549.4	1468.9	1439.3	1447.8
27.5°	2260.5	2201.3	2137.8	2222.4	2061.6	1748.3	1507.0	1341.9	1265.7	1244.6	1244.6
30°	2366.4	2277.5	2184.3	2315.6	1981.1	1579.0	1282.7	1164.1	1121.8	1104.9	1100.6
32.5°	2569.6	2434.1	2298.6	2400.2	1892.2	1358.9	1130.3	1058.3	1007.5	990.6	1003.3
35°	2751.6	2561.1	2472.2	2438.3	1752.5	1181.1	1037.1	973.6	931.3	910.1	910.1
37.5°	2916.7	2734.6	2666.9	2438.3	1570.5	1071.0	977.9	927.1	872.0	855.1	855.1
40°	3276.5	3035.2	2916.7	2404.5	1346.2	1016.0	948.2	889.0	842.4	825.5	821.2
42.5°	3771.8	3445.8	3174.9	2328.3	1155.7	990.6	931.3	863.6	825.5	812.8	808.5
45°	4296.7	4008.8	3420.4	2192.8	1032.9	965.2	927.1	855.1	808.5	795.8	791.6
47.5°	4931.7	4635.4	3704.1	1985.4	948.2	948.2	922.8	842.4	800.1	787.4	787.4
50°	5634.4	5388.9	4063.9	1748.3	884.7	935.5	914.4	842.4	795.8	783.1	778.9
52.5°	6354.0	6239.7	4440.6	1515.5	821.2	918.6	910.1	842.4	787.4	774.7	774.7
55°	7268.4	7175.3	4876.7	1341.9	770.4	884.7	910.1	833.9	774.7	766.2	766.2
57.5°	8165.8	8132.0	5215.3	1189.5	732.3	842.4	897.4	821.2	762.0	757.7	757.7
60°	8932.1	8898.2	5359.2	999.0	694.2	800.1	872.0	800.1	740.8	745.0	745.0
62.5°	9406.2	9211.5	5253.4	825.5	656.1	762.0	842.4	774.7	719.6	732.3	728.1
65°	9490.8	9037.9	4842.8	690.0	613.8	719.6	808.5	745.0	690.0	719.6	715.4
67.5°	8868.6	8115.1	4072.3	601.1	571.5	673.1	770.4	702.7	656.1	698.5	685.8
70°	7522.4	6591.1	3014.0	533.4	529.2	618.0	719.6	651.9	609.6	630.7	613.8
72.5°	5600.5	4758.1	1951.5	482.6	482.6	554.5	647.7	588.4	546.1	550.3	533.4
75°	3492.4	2925.1	1109.1	436.0	436.0	491.1	575.7	516.5	486.8	469.9	491.1
77.5°	1587.5	1286.9	584.2	389.5	393.7	419.1	495.3	440.3	406.4	381.0	393.7
80°	588.4	524.9	381.0	334.4	342.9	347.1	397.9	351.4	321.7	304.8	296.3
82.5°	304.8	283.6	258.2	266.7	279.4	266.7	309.0	262.5	228.6	215.9	182.0
85°	152.4	148.2	156.6	177.8	194.7	165.1	186.3	169.3	139.7	101.6	101.6
87.5°	59.3	63.5	59.3	80.4	88.9	76.2	84.7	59.3	42.3	21.2	16.9
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)