

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: P399154

Luminaire Tested: **ARCH-L-PA3-100-750-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-100-750-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16661 lumens
Efficiency: N/A
Efficacy: 163.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G3

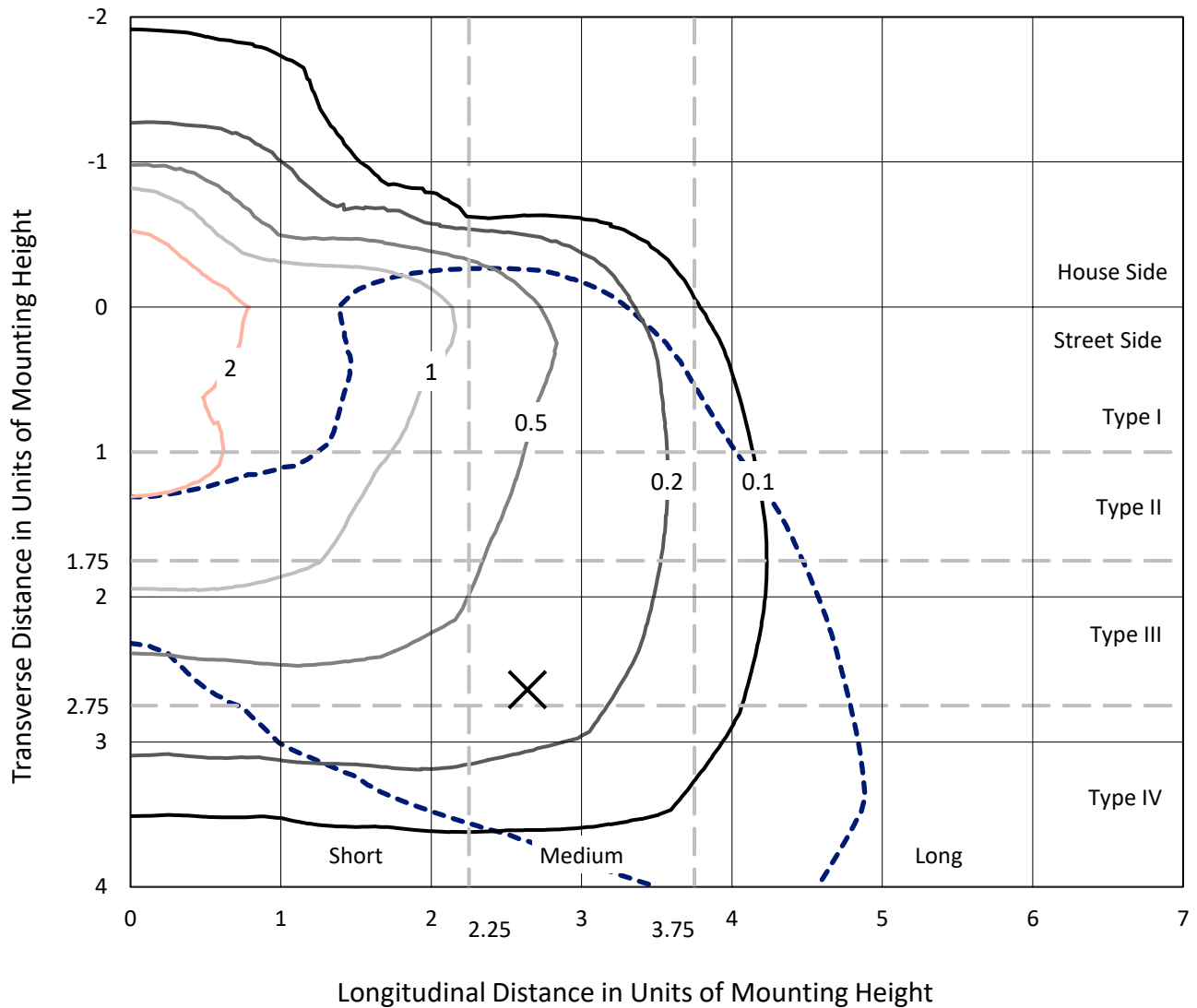
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

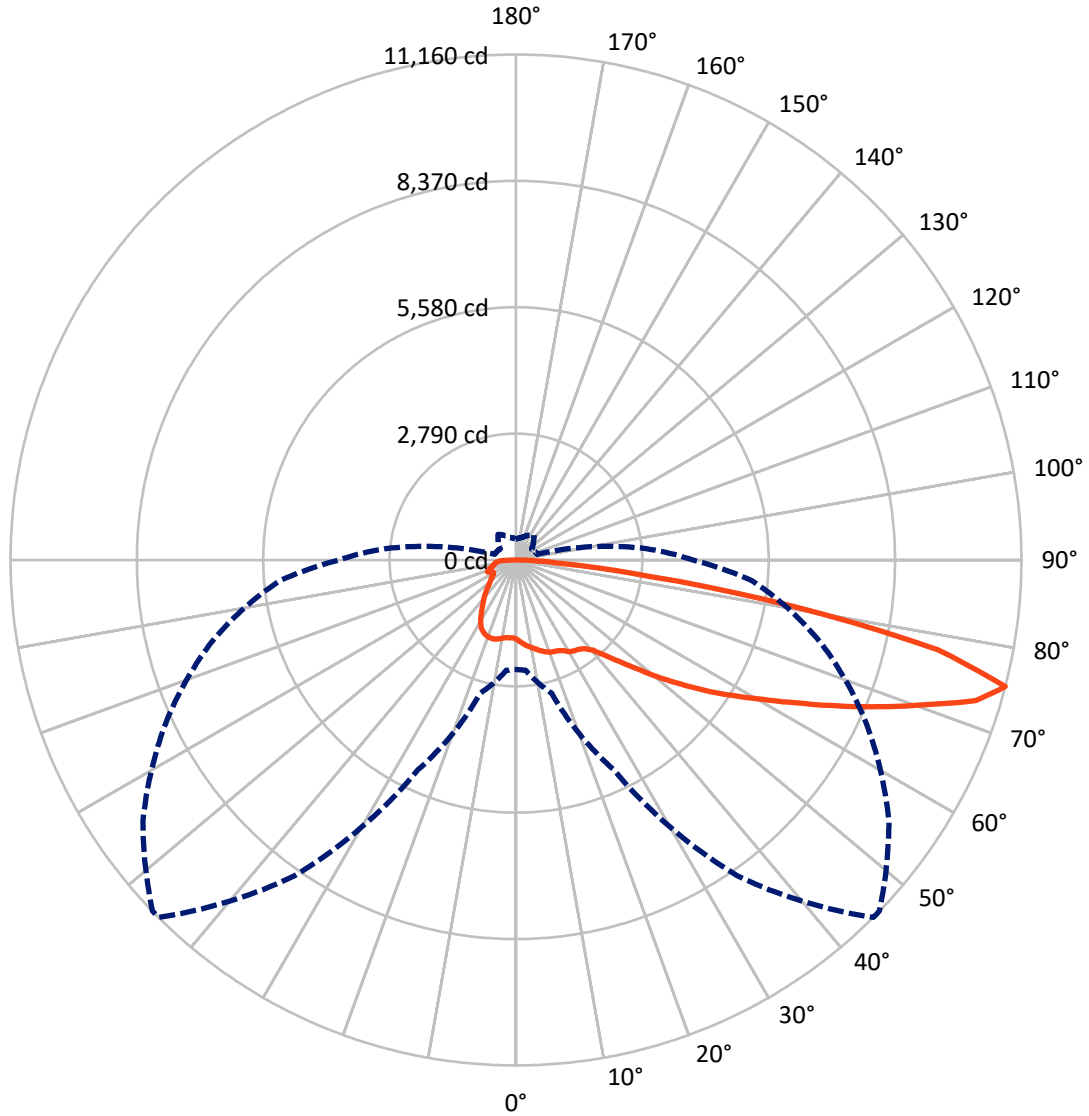
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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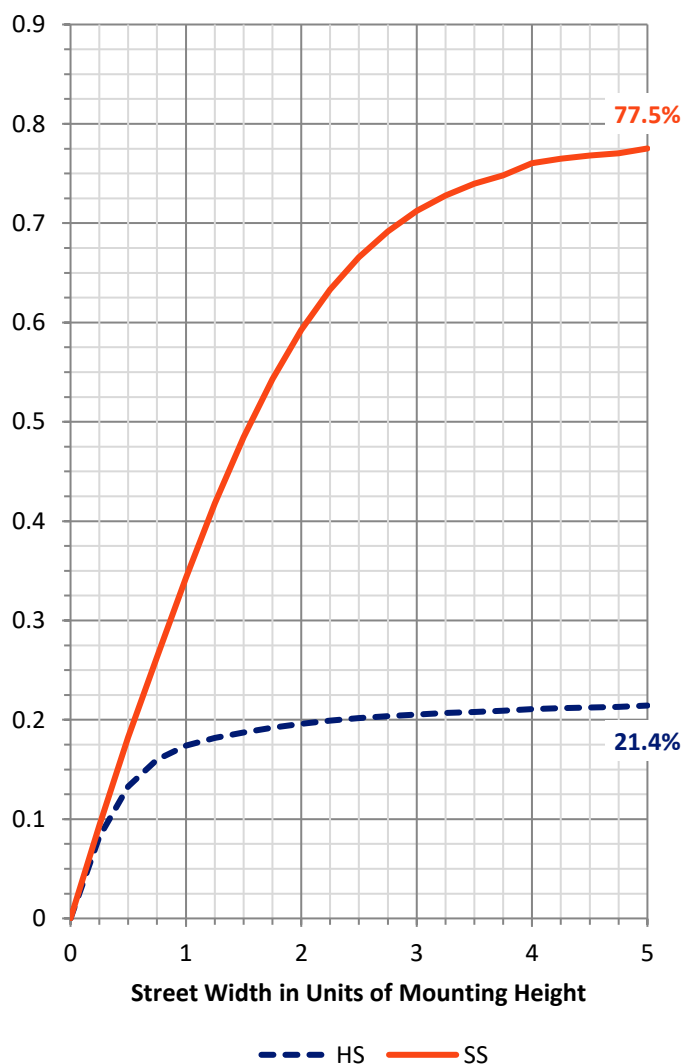
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3682.0	0.0	3682.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	12979.0	0.0	12979.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	16661.0	0.0	16661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	1.0
10°-20°	550.7	3.3
20°-30°	938.9	5.6
30°-40°	1315.5	7.9
40°-50°	1932.6	11.6
50°-60°	3075.8	18.5
60°-70°	4375.3	26.3
70°-80°	3663.4	22.0
80°-90°	635.8	3.8
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°	16661.0	100.0
0°-180°	16661.0	100.0

Coefficient of Utilization



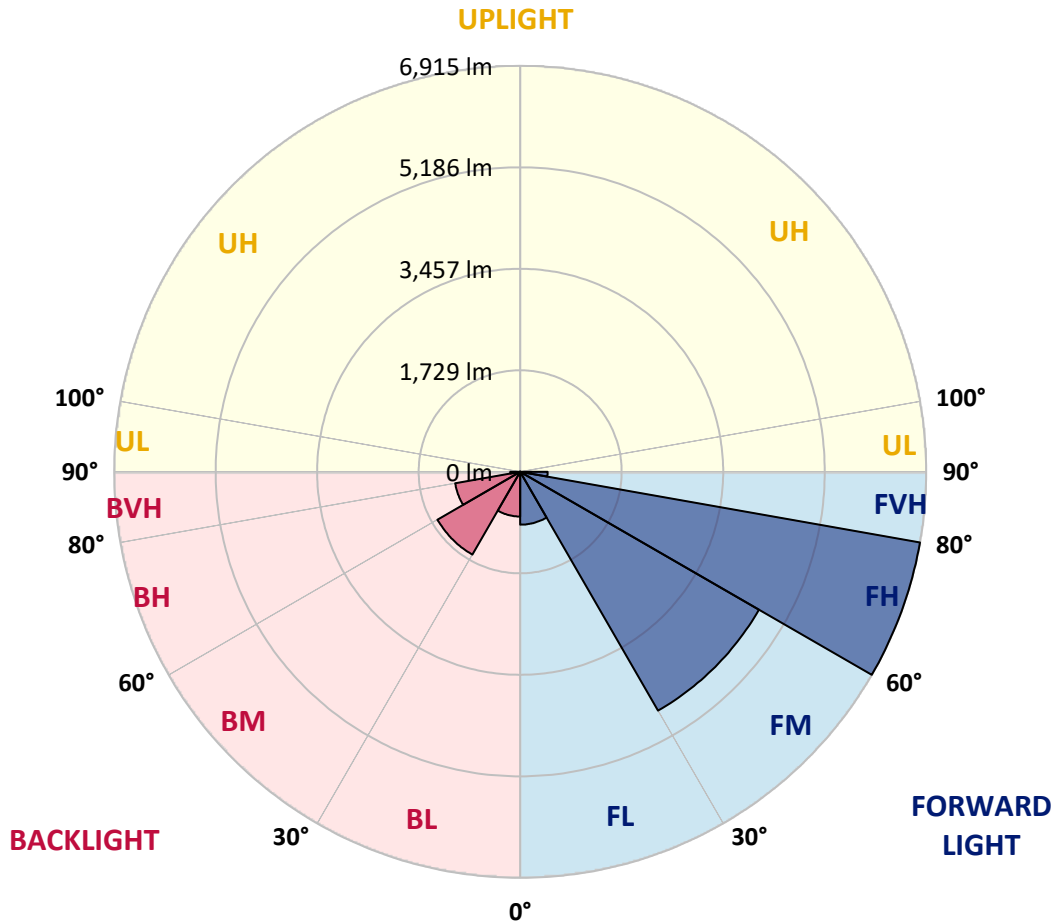
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.6	5.4			
FM (30°-60°)	4696.2	28.2			
FH (60°-80°)	6914.7	41.5			G3/7500
FVH (80°-90°)	467.4	2.8			G3/500
BL (0°-30°)	762.0	4.6	B2/1000		
BM (30°-60°)	1627.6	9.8	B2/2500		
BH (60°-80°)	1124.0	6.7	B3/2500		G3/2500
BVH (80°-90°)	168.4	1.0			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1749.8	1749.8	1749.8	1749.8	1749.8	1749.8	1749.8	1749.8	1749.8	1749.8	1749.8
2.5°	1849.9	1841.0	1836.6	1836.6	1818.8	1807.6	1805.4	1789.8	1776.5	1763.1	1752.0
5°	1956.8	1950.1	1936.8	1925.6	1901.1	1870.0	1865.5	1832.1	1798.7	1767.6	1740.9
7.5°	2054.8	2041.4	2025.8	2003.6	1963.5	1921.2	1914.5	1867.8	1821.0	1774.3	1738.6
10°	2137.1	2123.8	2101.5	2070.3	2019.1	1967.9	1961.3	1912.3	1863.3	1807.6	1756.4
12.5°	2215.0	2203.9	2170.5	2128.2	2068.1	2021.4	2014.7	1972.4	1921.2	1858.9	1792.1
15°	2281.8	2270.7	2235.1	2186.1	2117.1	2081.5	2072.6	2032.5	1981.3	1914.5	1845.5
17.5°	2315.2	2315.2	2277.4	2223.9	2159.4	2132.7	2126.0	2077.0	2030.3	1965.7	1896.7
20°	2326.3	2330.8	2304.1	2239.5	2183.9	2172.7	2166.1	2126.0	2072.6	2010.2	1945.7
22.5°	2333.0	2341.9	2319.7	2246.2	2199.5	2192.8	2188.3	2161.6	2119.3	2059.2	1994.6
25°	2355.3	2355.3	2339.7	2257.3	2219.5	2217.3	2217.3	2201.7	2172.7	2121.5	2057.0
27.5°	2388.7	2386.5	2366.4	2281.8	2264.0	2270.7	2268.5	2266.2	2246.2	2195.0	2126.0
30°	2444.3	2444.3	2422.1	2330.8	2319.7	2348.6	2350.8	2355.3	2324.1	2244.0	2188.3
32.5°	2528.9	2520.0	2497.8	2379.8	2362.0	2388.7	2393.1	2390.9	2364.2	2288.5	2261.8
35°	2789.4	2769.4	2689.2	2488.9	2399.8	2415.4	2417.6	2428.8	2433.2	2373.1	2359.7
37.5°	3245.8	3219.0	3096.6	2747.1	2520.0	2482.2	2480.0	2508.9	2533.4	2480.0	2480.0
40°	3742.2	3719.9	3648.7	3192.3	2742.6	2618.0	2609.1	2635.8	2667.0	2629.1	2640.2
42.5°	4169.6	4187.4	4194.1	3664.3	3076.6	2871.8	2847.3	2809.4	2858.4	2825.0	2869.5
45°	4490.2	4481.3	4603.7	4147.4	3508.4	3190.1	3156.7	3054.3	3116.6	3114.4	3212.4
47.5°	4830.8	4815.2	4866.4	4601.5	4000.4	3579.7	3528.5	3377.1	3470.6	3535.2	3697.7
50°	5153.6	5158.0	5175.8	4959.9	4534.7	4053.9	3989.3	3786.7	3920.3	4056.1	4285.4
52.5°	5574.3	5543.2	5520.9	5378.4	5133.5	4548.1	4505.8	4274.2	4461.2	4621.5	4926.5
55°	5941.6	5921.6	5908.3	5901.6	5634.4	5093.5	5049.0	4808.5	5077.9	5191.4	5641.1
57.5°	6333.5	6322.3	6393.6	6507.1	6400.2	5647.8	5601.0	5369.5	5670.1	5750.2	6415.8
60°	6620.6	6627.3	6823.2	7112.6	7039.1	6248.9	6193.2	5988.4	6246.6	6317.9	7190.5
62.5°	6622.9	6689.6	7143.8	7662.5	7747.1	6941.2	6876.6	6654.0	6838.8	6838.8	7885.1
65°	5990.6	6066.3	7085.9	7798.3	8463.9	7764.9	7702.5	7353.0	7422.1	7328.6	8537.4
67.5°	5360.6	5449.7	6409.1	7809.4	8967.0	8646.4	8573.0	8052.1	7934.1	7698.1	8993.7
70°	4942.1	5004.4	5805.9	7664.7	9269.8	9568.1	9512.4	8715.5	8337.0	8007.5	8898.0
72.5°	4160.7	4138.4	4904.3	6976.8	9439.0	10614.4	10567.6	9436.7	8686.5	7860.6	7589.0
75°	2415.4	2442.1	3043.2	5111.3	8508.4	11159.8	11155.3	10053.4	8532.9	6943.4	5229.3
77.5°	696.8	716.8	999.6	2246.2	5380.7	9519.1	9824.1	9194.1	7212.8	4948.8	2711.5
80°	305.0	320.6	434.1	748.0	2317.4	6217.7	6484.8	6217.7	4349.9	2270.7	1064.1
82.5°	180.3	191.5	282.7	463.0	1110.9	2958.6	3319.2	2898.5	1876.7	963.9	440.8
85°	102.4	106.9	162.5	293.9	699.0	1035.2	1162.1	1088.6	915.0	547.6	231.5
87.5°	46.7	49.0	80.1	138.0	391.8	349.5	362.9	480.9	529.8	333.9	115.8
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°	1749.8	1749.8	1749.8	1749.8	1749.8	1749.8	1749.8	1749.8	1749.8	1749.8	1749.8
2.5°	1747.5	1740.9	1727.5	1723.1	1716.4	1718.6	1720.8	1720.8	1723.1	1716.4	1716.4
5°	1729.7	1718.6	1705.2	1705.2	1705.2	1723.1	1738.6	1747.5	1752.0	1752.0	1747.5
7.5°	1723.1	1709.7	1694.1	1698.6	1703.0	1725.3	1754.2	1783.2	1792.1	1792.1	1787.6
10°	1736.4	1723.1	1711.9	1718.6	1729.7	1747.5	1769.8	1796.5	1818.8	1821.0	1818.8
12.5°	1767.6	1752.0	1740.9	1754.2	1767.6	1778.7	1789.8	1801.0	1829.9	1834.4	1834.4
15°	1818.8	1803.2	1789.8	1801.0	1805.4	1805.4	1805.4	1805.4	1834.4	1838.8	1838.8
17.5°	1870.0	1856.6	1843.3	1845.5	1832.1	1814.3	1807.6	1805.4	1821.0	1834.4	1836.6
20°	1919.0	1907.8	1894.5	1872.2	1838.8	1805.4	1794.3	1794.3	1803.2	1823.2	1823.2
22.5°	1972.4	1959.0	1936.8	1885.6	1829.9	1783.2	1772.0	1778.7	1789.8	1816.6	1814.3
25°	2032.5	2014.7	1976.8	1881.1	1801.0	1745.3	1747.5	1767.6	1787.6	1816.6	1816.6
27.5°	2099.3	2074.8	1999.1	1845.5	1736.4	1683.0	1703.0	1749.8	1778.7	1809.9	1814.3
30°	2172.7	2150.5	2016.9	1783.2	1631.8	1582.8	1631.8	1707.5	1752.0	1780.9	1787.6
32.5°	2261.8	2244.0	2032.5	1703.0	1496.0	1453.7	1524.9	1618.4	1689.7	1723.1	1729.7
35°	2373.1	2355.3	2052.5	1611.7	1369.1	1324.6	1389.1	1484.9	1578.4	1620.7	1634.0
37.5°	2517.8	2491.1	2070.3	1513.8	1262.2	1211.0	1242.2	1329.0	1413.6	1471.5	1487.1
40°	2702.6	2660.3	2085.9	1402.5	1168.7	1110.9	1122.0	1164.3	1213.3	1264.5	1284.5
42.5°	2963.0	2878.4	2088.1	1284.5	1073.0	1019.6	1015.1	1028.5	1028.5	1028.5	1035.2
45°	3325.9	3165.6	2092.6	1173.2	975.1	919.4	906.1	901.6	868.2	803.6	799.2
47.5°	3784.5	3541.8	2112.6	1079.7	872.7	823.7	805.9	788.1	725.7	658.9	645.6
50°	4372.2	3978.2	2152.7	990.6	785.8	752.4	730.2	687.9	618.9	567.7	554.3
52.5°	5049.0	4496.9	2190.6	897.1	721.3	699.0	672.3	621.1	547.6	516.5	512.0
55°	5825.9	5075.7	2266.2	814.8	665.6	650.0	625.6	576.6	520.9	498.7	496.4
57.5°	6620.6	5723.5	2373.1	741.3	612.2	603.3	603.3	561.0	525.4	516.5	516.5
60°	7386.4	6280.0	2290.7	672.3	563.2	567.7	610.0	598.8	572.1	583.3	589.9
62.5°	7980.8	6607.3	1858.9	616.6	527.6	567.7	676.8	676.8	645.6	641.1	641.1
65°	8234.6	6602.8	1306.8	574.4	514.2	623.3	754.7	719.1	636.7	605.5	598.8
67.5°	8170.0	6313.4	901.6	545.4	509.8	681.2	790.3	690.1	596.6	569.9	549.9
70°	7602.4	5701.2	694.6	518.7	503.1	656.7	779.2	656.7	565.4	541.0	523.1
72.5°	6133.1	4572.6	576.6	492.0	476.4	607.7	741.3	625.6	541.0	514.2	496.4
75°	3911.4	2876.2	487.5	456.4	425.2	545.4	690.1	594.4	514.2	478.6	465.3
77.5°	1881.1	1240.0	425.2	414.1	382.9	505.3	638.9	554.3	478.6	449.7	440.8
80°	761.4	567.7	369.5	371.8	351.7	480.9	603.3	516.5	443.0	411.8	396.3
82.5°	396.3	329.5	311.7	320.6	320.6	458.6	576.6	485.3	411.8	398.5	347.3
85°	213.7	204.8	240.4	258.2	278.3	414.1	536.5	451.9	376.2	322.8	311.7
87.5°	104.6	133.6	135.8	155.8	193.7	331.7	451.9	378.4	313.9	260.5	256.0
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)