

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: P399208

Luminaire Tested: **ARCH-L-PA3-110-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399208
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-PA3-110-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16584 lumens
Efficiency: N/A
Efficacy: 146.8 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

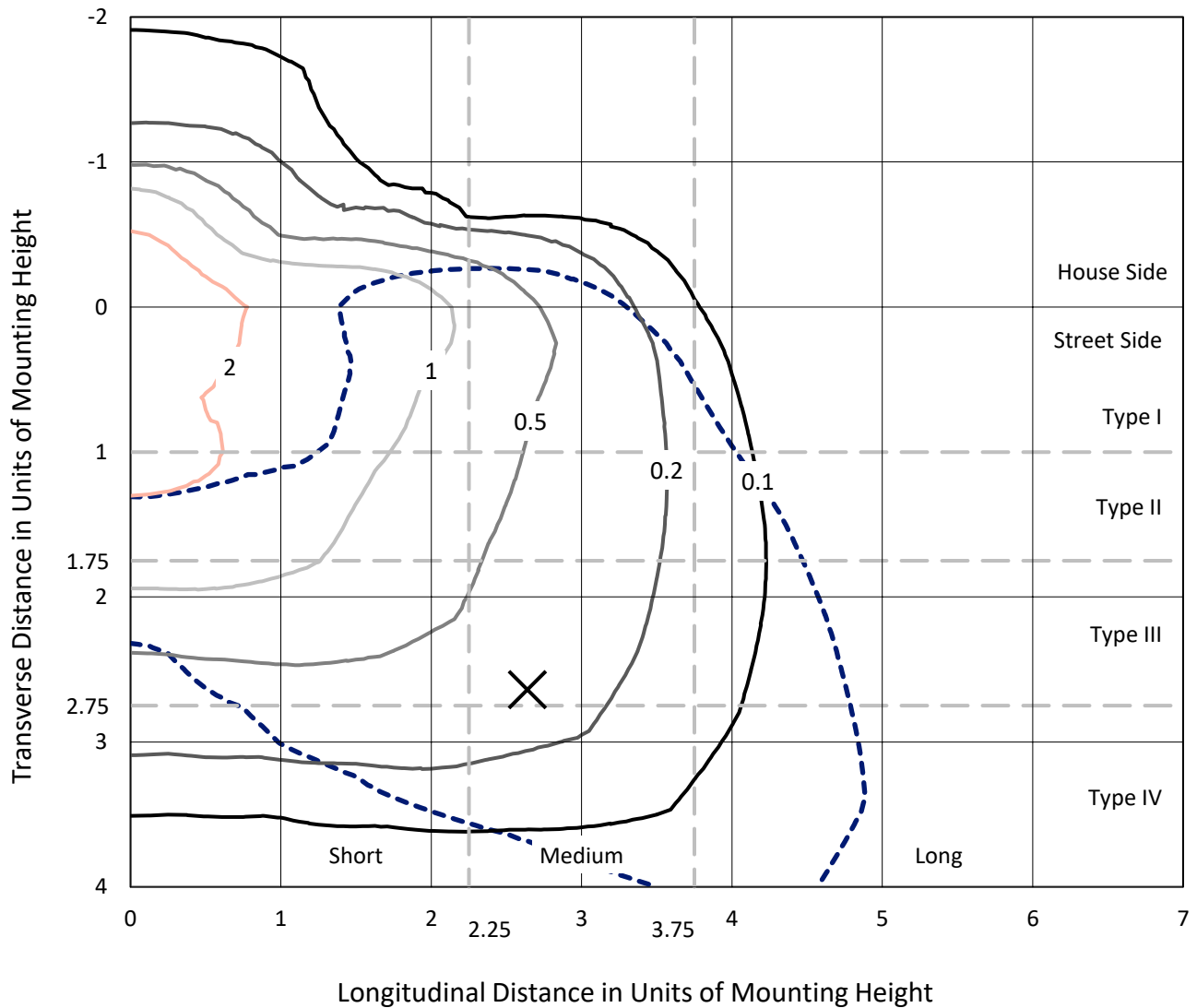
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

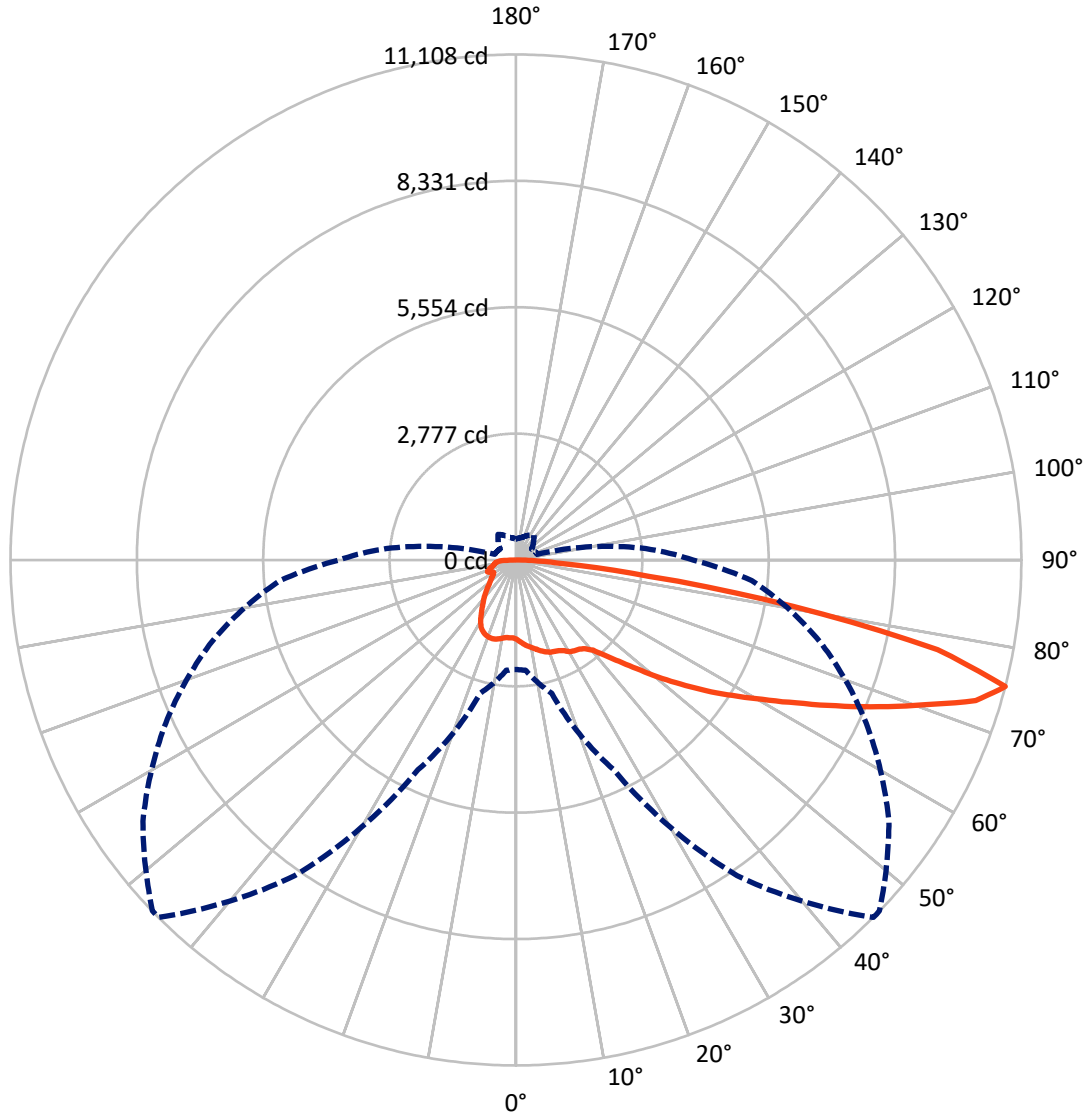
× Max cd
 - - - 1/2 Max cd



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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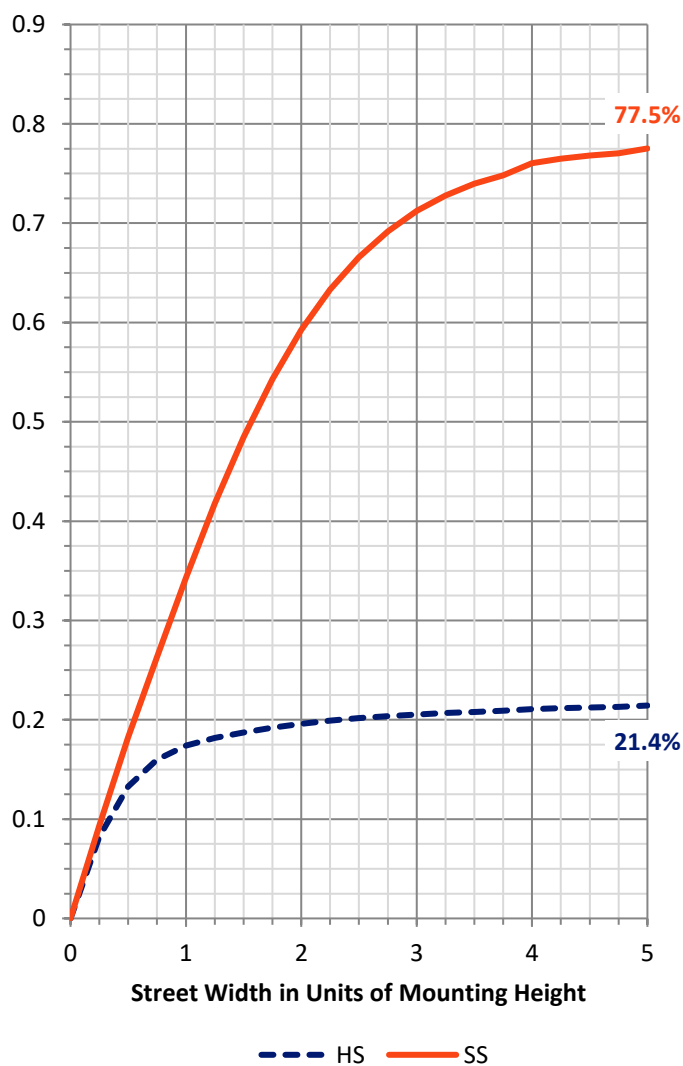
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3665.0	0.0	3665.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	12919.0	0.0	12919.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	16584.0	0.0	16584.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	1.0
10°-20°	548.2	3.3
20°-30°	934.5	5.6
30°-40°	1309.4	7.9
40°-50°	1923.7	11.6
50°-60°	3061.6	18.5
60°-70°	4355.1	26.3
70°-80°	3646.5	22.0
80°-90°	632.8	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°	16584.0	100.0
0°-180°	16584.0	100.0

Coefficient of Utilization



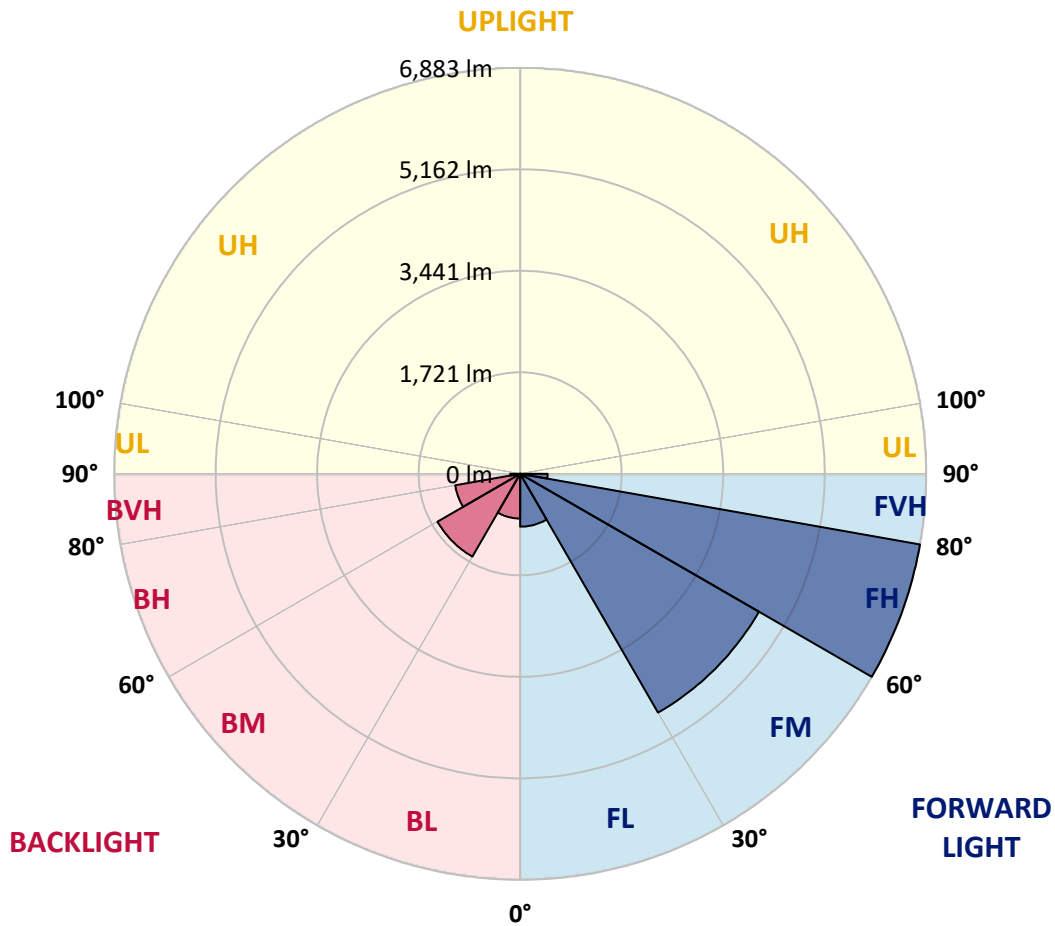
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.5	5.4			
FM (30°-60°)	4674.5	28.2			
FH (60°-80°)	6882.8	41.5			G3/7500
FVH (80°-90°)	465.3	2.8			G3/500
BL (0°-30°)	758.5	4.6	B2/1000		
BM (30°-60°)	1620.1	9.8	B2/2500		
BH (60°-80°)	1118.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	167.6	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°	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1841.4	1832.5	1828.1	1828.1	1810.4	1799.3	1797.1	1781.6	1768.3	1755.0	1743.9
5°	1947.8	1941.1	1927.8	1916.7	1892.4	1861.3	1856.9	1823.7	1790.4	1759.4	1732.8
7.5°	2045.3	2032.0	2016.5	1994.3	1954.4	1912.3	1905.7	1859.1	1812.6	1766.1	1730.6
10°	2127.2	2114.0	2091.8	2060.8	2009.8	1958.8	1952.2	1903.4	1854.7	1799.3	1748.3
12.5°	2204.8	2193.7	2160.5	2118.4	2058.6	2012.0	2005.4	1963.3	1912.3	1850.3	1783.8
15°	2271.3	2260.2	2224.7	2176.0	2107.3	2071.8	2063.0	2023.1	1972.1	1905.7	1837.0
17.5°	2304.5	2304.5	2266.8	2213.7	2149.4	2122.8	2116.2	2067.4	2020.9	1956.6	1887.9
20°	2315.6	2320.0	2293.4	2229.2	2173.8	2162.7	2156.1	2116.2	2063.0	2000.9	1936.7
22.5°	2322.2	2331.1	2308.9	2235.8	2189.3	2182.6	2178.2	2151.6	2109.5	2049.7	1985.4
25°	2344.4	2344.4	2328.9	2246.9	2209.2	2207.0	2207.0	2191.5	2162.7	2111.7	2047.5
27.5°	2377.6	2375.4	2355.5	2271.3	2253.6	2260.2	2258.0	2255.8	2235.8	2184.9	2116.2
30°	2433.0	2433.0	2410.9	2320.0	2308.9	2337.8	2340.0	2344.4	2313.4	2233.6	2178.2
32.5°	2517.2	2508.4	2486.2	2368.8	2351.1	2377.6	2382.1	2379.9	2353.3	2277.9	2251.3
35°	2776.5	2756.6	2676.8	2477.4	2388.7	2404.2	2406.4	2417.5	2422.0	2362.1	2348.8
37.5°	3230.8	3204.2	3082.3	2734.4	2508.4	2470.7	2468.5	2497.3	2521.7	2468.5	2468.5
40°	3724.9	3702.7	3631.8	3177.6	2730.0	2605.9	2597.0	2623.6	2654.6	2617.0	2628.0
42.5°	4150.3	4168.1	4174.7	3647.3	3062.3	2858.5	2834.1	2796.4	2845.2	2812.0	2856.3
45°	4469.4	4460.6	4582.4	4128.2	3492.2	3175.4	3142.1	3040.2	3102.2	3100.0	3197.5
47.5°	4808.5	4793.0	4843.9	4580.2	3981.9	3563.1	3512.2	3361.5	3454.6	3518.8	3680.6
50°	5129.8	5134.2	5151.9	4937.0	4513.8	4035.1	3970.9	3769.2	3902.2	4037.3	4265.6
52.5°	5548.6	5517.5	5495.4	5353.6	5109.8	4527.0	4484.9	4254.5	4440.6	4600.2	4903.7
55°	5914.2	5894.2	5880.9	5874.3	5608.4	5069.9	5025.6	4786.3	5054.4	5167.4	5615.0
57.5°	6304.2	6293.1	6364.0	6477.0	6370.7	5621.7	5575.2	5344.7	5643.9	5723.6	6386.2
60°	6590.0	6596.7	6791.7	7079.7	7006.6	6220.0	6164.6	5960.7	6217.8	6288.7	7157.3
62.5°	6592.2	6658.7	7110.8	7627.1	7711.3	6909.1	6844.9	6623.3	6807.2	6807.2	7848.7
65°	5962.9	6038.3	7053.2	7762.2	8424.8	7729.0	7667.0	7319.1	7387.7	7294.7	8497.9
67.5°	5335.8	5424.5	6379.5	7773.3	8925.6	8606.5	8533.4	8014.8	7897.4	7662.5	8952.2
70°	4919.3	4981.3	5779.0	7629.3	9226.9	9523.9	9468.5	8675.2	8298.5	7970.5	8856.9
72.5°	4141.5	4119.3	4881.6	6944.6	9395.3	10565.3	10518.8	9393.1	8646.4	7824.3	7553.9
75°	2404.2	2430.8	3029.1	5087.7	8469.1	11108.2	11103.8	10006.9	8493.5	6911.3	5205.1
77.5°	693.6	713.5	994.9	2235.8	5355.8	9475.1	9778.7	9151.6	7179.5	4925.9	2698.9
80°	303.6	319.1	432.1	744.5	2306.7	6189.0	6454.9	6189.0	4329.8	2260.2	1059.2
82.5°	179.5	190.6	281.4	460.9	1105.7	2944.9	3303.9	2885.1	1868.0	959.5	438.7
85°	101.9	106.4	161.8	292.5	695.8	1030.4	1156.7	1083.6	910.7	545.1	230.5
87.5°	46.5	48.7	79.8	137.4	390.0	347.9	361.2	478.6	527.4	332.4	115.2
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°	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7	1741.7
2.5°	1739.5	1732.8	1719.5	1715.1	1708.4	1710.7	1712.9	1712.9	1715.1	1708.4	1708.4
5°	1721.7	1710.7	1697.4	1697.4	1697.4	1715.1	1730.6	1739.5	1743.9	1743.9	1739.5
7.5°	1715.1	1701.8	1686.3	1690.7	1695.1	1717.3	1746.1	1774.9	1783.8	1783.8	1779.4
10°	1728.4	1715.1	1704.0	1710.7	1721.7	1739.5	1761.6	1788.2	1810.4	1812.6	1810.4
12.5°	1759.4	1743.9	1732.8	1746.1	1759.4	1770.5	1781.6	1792.6	1821.5	1825.9	1825.9
15°	1810.4	1794.9	1781.6	1792.6	1797.1	1797.1	1797.1	1797.1	1825.9	1830.3	1830.3
17.5°	1861.3	1848.0	1834.7	1837.0	1823.7	1805.9	1799.3	1797.1	1812.6	1825.9	1828.1
20°	1910.1	1899.0	1885.7	1863.6	1830.3	1797.1	1786.0	1786.0	1794.9	1814.8	1814.8
22.5°	1963.3	1950.0	1927.8	1876.9	1821.5	1774.9	1763.8	1770.5	1781.6	1808.2	1805.9
25°	2023.1	2005.4	1967.7	1872.4	1792.6	1737.3	1739.5	1759.4	1779.4	1808.2	1808.2
27.5°	2089.6	2065.2	1989.9	1837.0	1728.4	1675.2	1695.1	1741.7	1770.5	1801.5	1805.9
30°	2162.7	2140.5	2007.6	1774.9	1624.2	1575.5	1624.2	1699.6	1743.9	1772.7	1779.4
32.5°	2251.3	2233.6	2023.1	1695.1	1489.1	1447.0	1517.9	1610.9	1681.9	1715.1	1721.7
35°	2362.1	2344.4	2043.0	1604.3	1362.8	1318.4	1382.7	1478.0	1571.1	1613.2	1626.5
37.5°	2506.2	2479.6	2060.8	1506.8	1256.4	1205.4	1236.5	1322.9	1407.1	1464.7	1480.2
40°	2690.1	2648.0	2076.3	1396.0	1163.3	1105.7	1116.8	1158.9	1207.7	1258.6	1278.6
42.5°	2949.3	2865.1	2078.5	1278.6	1068.1	1014.9	1010.4	1023.7	1023.7	1023.7	1030.4
45°	3310.5	3151.0	2082.9	1167.8	970.6	915.2	901.9	897.4	864.2	799.9	795.5
47.5°	3767.0	3525.5	2102.9	1074.7	868.6	819.9	802.1	784.4	722.4	655.9	642.6
50°	4352.0	3959.8	2142.8	986.1	782.2	749.0	726.8	684.7	616.0	565.0	551.8
52.5°	5025.6	4476.1	2180.4	893.0	717.9	695.8	669.2	618.2	545.1	514.1	509.7
55°	5799.0	5052.2	2255.8	811.0	662.5	647.0	622.7	573.9	518.5	496.4	494.1
57.5°	6590.0	5697.0	2362.1	737.9	609.4	600.5	600.5	558.4	522.9	514.1	514.1
60°	7352.3	6251.0	2280.1	669.2	560.6	565.0	607.2	596.1	569.5	580.6	587.2
62.5°	7943.9	6576.7	1850.3	613.8	525.2	565.0	673.6	673.6	642.6	638.2	638.2
65°	8196.5	6572.3	1300.7	571.7	511.9	620.4	751.2	715.7	633.7	602.7	596.1
67.5°	8132.3	6284.2	897.4	542.9	507.4	678.1	786.6	686.9	593.9	567.3	547.3
70°	7567.2	5674.9	691.4	516.3	500.8	653.7	775.6	653.7	562.8	538.5	520.7
72.5°	6104.8	4551.4	573.9	489.7	474.2	604.9	737.9	622.7	538.5	511.9	494.1
75°	3893.3	2862.9	485.3	454.3	423.2	542.9	686.9	591.6	511.9	476.4	463.1
77.5°	1872.4	1234.2	423.2	412.2	381.1	503.0	636.0	551.8	476.4	447.6	438.7
80°	757.8	565.0	367.8	370.1	350.1	478.6	600.5	514.1	441.0	409.9	394.4
82.5°	394.4	328.0	310.2	319.1	319.1	456.5	573.9	483.1	409.9	396.6	345.7
85°	212.7	203.9	239.3	257.0	277.0	412.2	534.0	449.8	374.5	321.3	310.2
87.5°	104.1	133.0	135.2	155.1	192.8	330.2	449.8	376.7	312.4	259.3	254.8
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)