

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: P399460

Luminaire Tested: **ARCH-L-PA3-140-827-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399460
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-PA3-140-827-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16454 lumens
Efficiency: N/A
Efficacy: 115.1 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

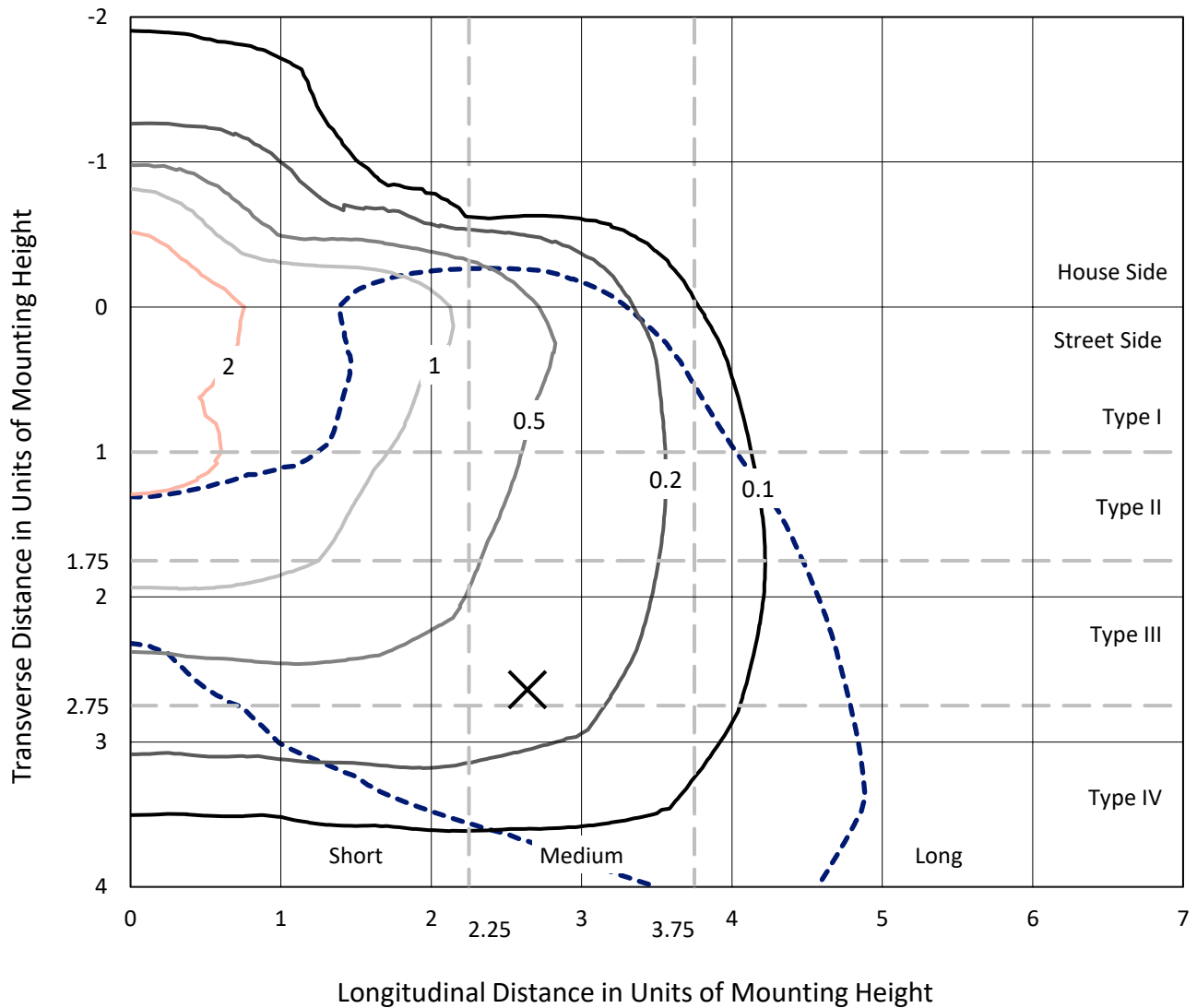
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399460
 CATALOG NUMBER: ARCH-L-PA3-140-827-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

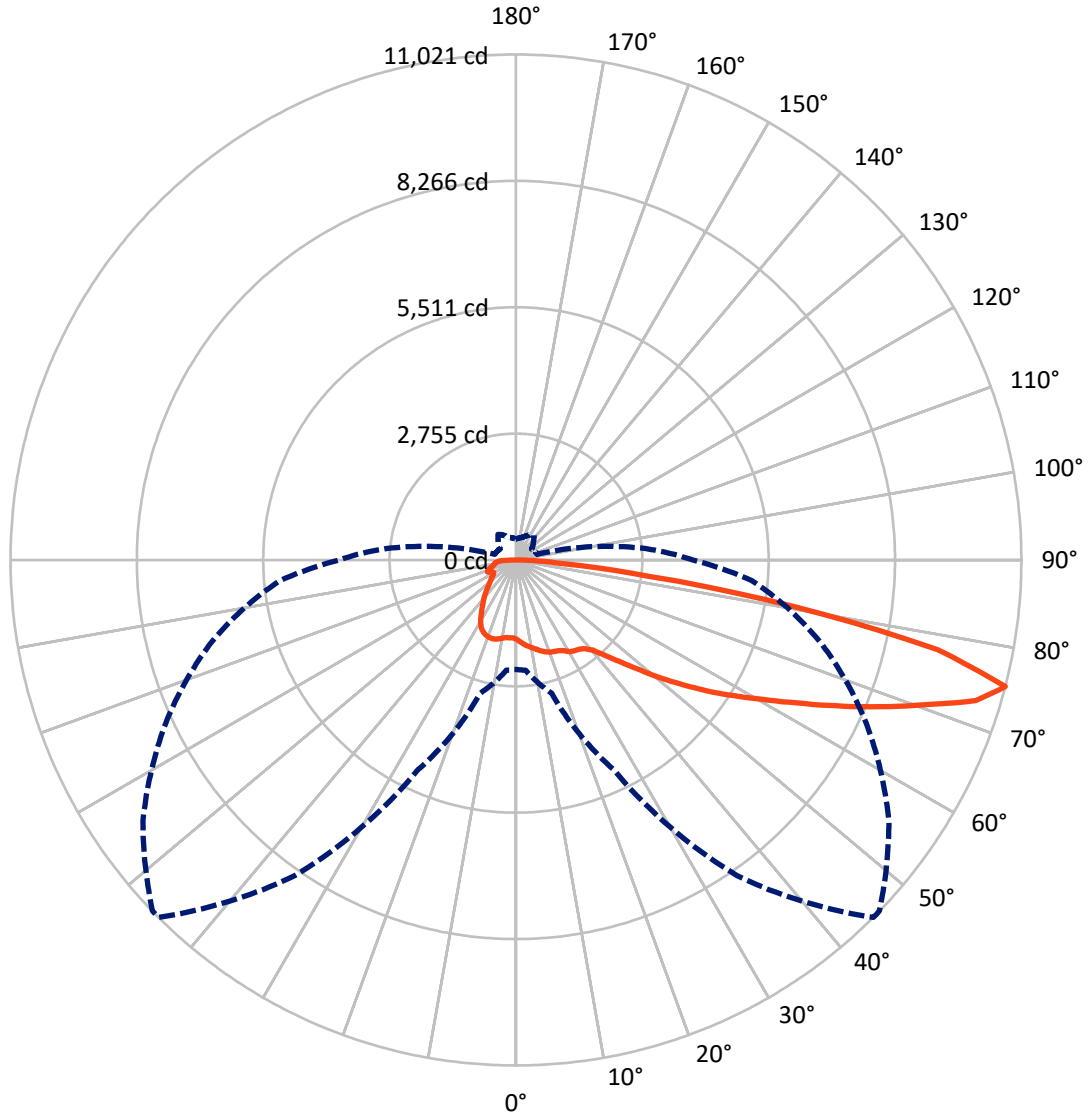
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P399460
CATALOG NUMBER: ARCH-L-PA3-140-827-U-T4W

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: ARCH-L-PA3-140-827-U-T4W

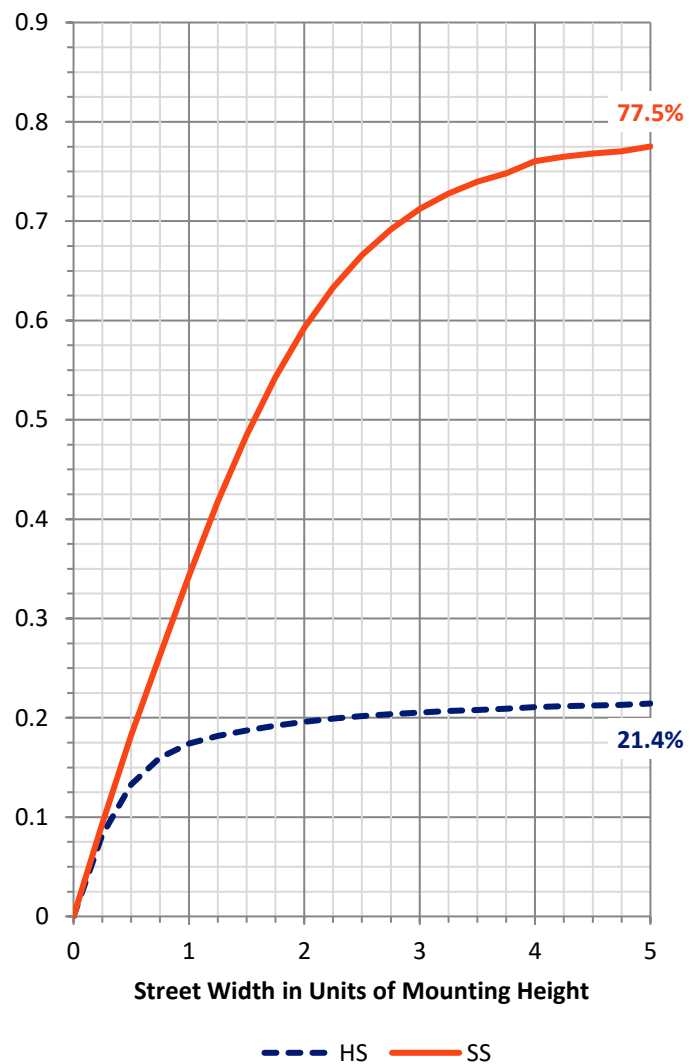
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3636.3	0.0	3636.3
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	12817.7	0.0	12817.7
	% Fixture	77.9	0.0	77.9
Total	Lumens	16454.0	0.0	16454.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	1.0
10°-20°	543.9	3.3
20°-30°	927.2	5.6
30°-40°	1299.1	7.9
40°-50°	1908.6	11.6
50°-60°	3037.6	18.5
60°-70°	4320.9	26.3
70°-80°	3617.9	22.0
80°-90°	627.9	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°	16454.0	100.0
0°-180°	16454.0	100.0



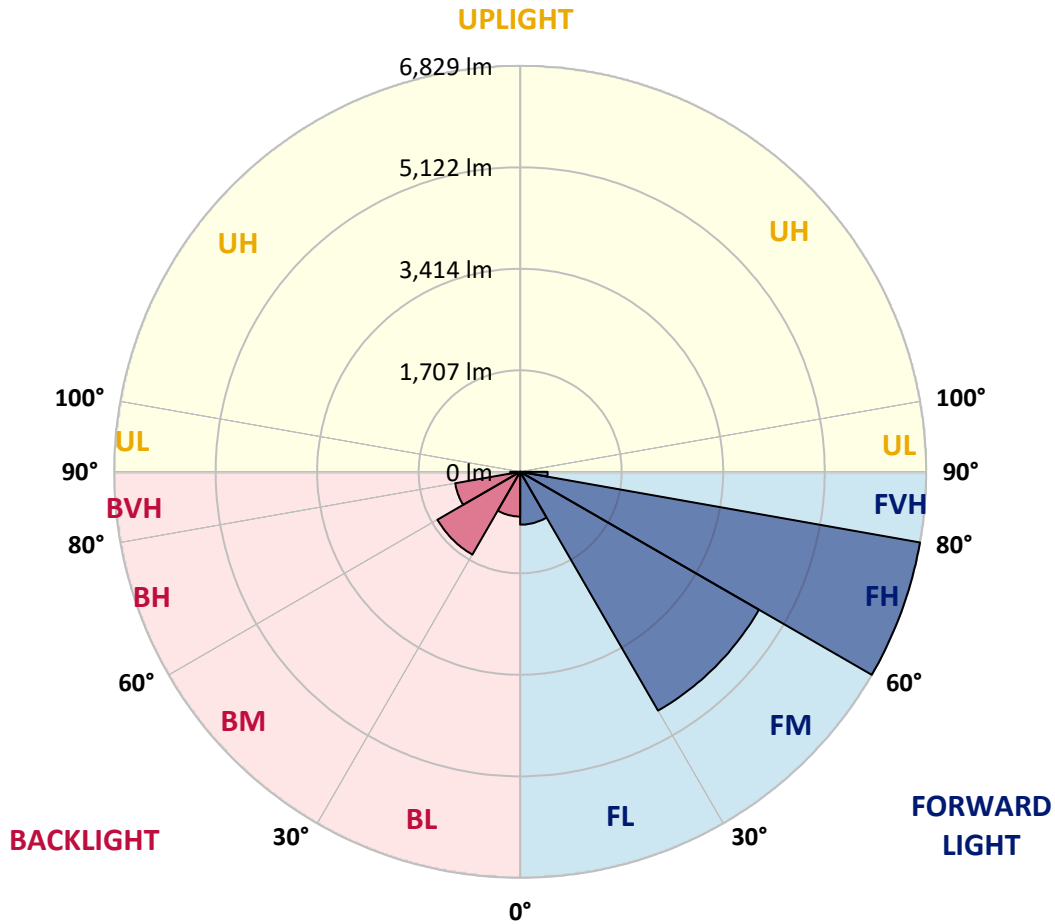
REPORT NUMBER: P399460
 CATALOG NUMBER: ARCH-L-PA3-140-827-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	889.4	5.4			
FM (30°-60°)	4637.9	28.2			
FH (60°-80°)	6828.8	41.5			G3/7500
FVH (80°-90°)	461.6	2.8			G3/500
BL (0°-30°)	752.6	4.6	B2/1000		
BM (30°-60°)	1607.4	9.8	B2/2500		
BH (60°-80°)	1110.0	6.7	B3/2500		G3/2500
BVH (80°-90°)	166.3	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





REPORT NUMBER: P399460

CATALOG NUMBER: ARCH-L-PA3-140-827-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1728.0	1728.0	1728.0	1728.0	1728.0	1728.0	1728.0	1728.0	1728.0	1728.0	1728.0
2.5°	1827.0	1818.2	1813.8	1813.8	1796.2	1785.2	1783.0	1767.6	1754.4	1741.2	1730.2
5°	1932.5	1925.9	1912.7	1901.7	1877.5	1846.7	1842.4	1809.4	1776.4	1745.6	1719.2
7.5°	2029.2	2016.0	2000.6	1978.7	1939.1	1897.3	1890.7	1844.6	1798.4	1752.2	1717.0
10°	2110.6	2097.4	2075.4	2044.6	1994.0	1943.5	1936.9	1888.5	1840.2	1785.2	1734.6
12.5°	2187.5	2176.5	2143.5	2101.8	2042.4	1996.2	1989.7	1947.9	1897.3	1835.8	1769.8
15°	2253.5	2242.5	2207.3	2158.9	2090.8	2055.6	2046.8	2007.2	1956.7	1890.7	1822.6
17.5°	2286.5	2286.5	2249.1	2196.3	2132.6	2106.2	2099.6	2051.2	2005.0	1941.3	1873.1
20°	2297.4	2301.8	2275.5	2211.7	2156.7	2145.7	2139.2	2099.6	2046.8	1985.3	1921.5
22.5°	2304.0	2312.8	2290.8	2218.3	2172.1	2165.5	2161.1	2134.8	2093.0	2033.6	1969.9
25°	2326.0	2326.0	2310.6	2229.3	2191.9	2189.7	2189.7	2174.3	2145.7	2095.2	2031.4
27.5°	2359.0	2356.8	2337.0	2253.5	2235.9	2242.5	2240.3	2238.1	2218.3	2167.7	2099.6
30°	2414.0	2414.0	2392.0	2301.8	2290.8	2319.4	2321.6	2326.0	2295.2	2216.1	2161.1
32.5°	2497.5	2488.7	2466.7	2350.2	2332.6	2359.0	2363.4	2361.2	2334.8	2260.1	2233.7
35°	2754.7	2734.9	2655.8	2457.9	2370.0	2385.4	2387.6	2398.6	2403.0	2343.6	2330.4
37.5°	3205.4	3179.0	3058.1	2713.0	2488.7	2451.3	2449.1	2477.7	2501.9	2449.1	2449.1
40°	3695.7	3673.7	3603.4	3152.7	2708.6	2585.4	2576.7	2603.0	2633.8	2596.4	2607.4
42.5°	4117.8	4135.4	4142.0	3618.7	3038.3	2836.1	2811.9	2774.5	2822.9	2789.9	2833.9
45°	4434.4	4425.6	4546.5	4095.8	3464.9	3150.5	3117.5	3016.4	3077.9	3075.7	3172.5
47.5°	4770.8	4755.4	4805.9	4544.3	3950.7	3535.2	3484.6	3335.1	3427.5	3491.2	3651.7
50°	5089.6	5094.0	5111.5	4898.3	4478.4	4003.5	3939.7	3739.7	3871.6	4005.7	4232.1
52.5°	5505.1	5474.3	5452.3	5311.6	5069.8	4491.6	4449.8	4221.1	4405.8	4564.1	4865.3
55°	5867.8	5848.0	5834.8	5828.3	5564.4	5030.2	4986.2	4748.8	5014.8	5126.9	5571.0
57.5°	6254.8	6243.8	6314.1	6426.2	6320.7	5577.6	5531.5	5302.8	5599.6	5678.8	6336.1
60°	6538.4	6545.0	6738.4	7024.2	6951.7	6171.2	6116.3	5914.0	6169.0	6239.4	7101.2
62.5°	6540.6	6606.5	7055.0	7567.3	7650.8	6855.0	6791.2	6571.4	6753.8	6753.8	7787.1
65°	5916.2	5990.9	6997.9	7701.4	8358.7	7668.4	7606.8	7261.7	7329.8	7237.5	8431.3
67.5°	5294.0	5382.0	6329.5	7712.4	8855.6	8539.0	8466.5	7952.0	7835.5	7602.5	8882.0
70°	4880.7	4942.3	5733.7	7569.5	9154.6	9449.2	9394.2	8607.2	8233.4	7908.0	8787.5
72.5°	4109.0	4087.0	4843.3	6890.1	9321.7	10482.5	10436.3	9319.5	8578.6	7762.9	7494.7
75°	2385.4	2411.8	3005.4	5047.8	8402.7	11021.1	11016.7	9928.5	8426.9	6857.2	5164.3
77.5°	688.1	707.9	987.1	2218.3	5313.8	9400.8	9702.0	9079.9	7123.2	4887.3	2677.8
80°	301.2	316.6	428.7	738.7	2288.7	6140.4	6404.3	6140.4	4295.9	2242.5	1050.9
82.5°	178.1	189.1	279.2	457.3	1097.1	2921.8	3278.0	2862.5	1853.3	952.0	435.3
85°	101.1	105.5	160.5	290.2	690.3	1022.3	1147.6	1075.1	903.6	540.8	228.6
87.5°	46.2	48.4	79.1	136.3	386.9	345.2	358.4	474.9	523.2	329.8	114.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399460

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1728.0	1728.0	1728.0	1728.0	1728.0	1728.0	1728.0	1728.0	1728.0	1728.0	1728.0
2.5°	1725.8	1719.2	1706.0	1701.6	1695.1	1697.3	1699.4	1699.4	1701.6	1695.1	1695.1
5°	1708.2	1697.3	1684.1	1684.1	1684.1	1701.6	1717.0	1725.8	1730.2	1730.2	1725.8
7.5°	1701.6	1688.5	1673.1	1677.5	1681.9	1703.8	1732.4	1761.0	1769.8	1769.8	1765.4
10°	1714.8	1701.6	1690.7	1697.3	1708.2	1725.8	1747.8	1774.2	1796.2	1798.4	1796.2
12.5°	1745.6	1730.2	1719.2	1732.4	1745.6	1756.6	1767.6	1778.6	1807.2	1811.6	1811.6
15°	1796.2	1780.8	1767.6	1778.6	1783.0	1783.0	1783.0	1783.0	1811.6	1816.0	1816.0
17.5°	1846.7	1833.6	1820.4	1822.6	1809.4	1791.8	1785.2	1783.0	1798.4	1811.6	1813.8
20°	1895.1	1884.1	1870.9	1848.9	1816.0	1783.0	1772.0	1772.0	1780.8	1800.6	1800.6
22.5°	1947.9	1934.7	1912.7	1862.1	1807.2	1761.0	1750.0	1756.6	1767.6	1794.0	1791.8
25°	2007.2	1989.7	1952.3	1857.7	1778.6	1723.6	1725.8	1745.6	1765.4	1794.0	1794.0
27.5°	2073.2	2049.0	1974.3	1822.6	1714.8	1662.1	1681.9	1728.0	1756.6	1787.4	1791.8
30°	2145.7	2123.8	1991.9	1761.0	1611.5	1563.1	1611.5	1686.3	1730.2	1758.8	1765.4
32.5°	2233.7	2216.1	2007.2	1681.9	1477.4	1435.6	1506.0	1598.3	1668.7	1701.6	1708.2
35°	2343.6	2326.0	2027.0	1591.7	1352.1	1308.1	1371.9	1466.4	1558.7	1600.5	1613.7
37.5°	2486.5	2460.1	2044.6	1495.0	1246.6	1196.0	1226.8	1312.5	1396.1	1453.2	1468.6
40°	2669.0	2627.2	2060.0	1385.1	1154.2	1097.1	1108.0	1149.8	1198.2	1248.8	1268.5
42.5°	2926.2	2842.7	2062.2	1268.5	1059.7	1006.9	1002.5	1015.7	1015.7	1015.7	1022.3
45°	3284.6	3126.3	2066.6	1158.6	962.9	908.0	894.8	890.4	857.4	793.7	789.3
47.5°	3737.5	3497.8	2086.4	1066.3	861.8	813.4	795.9	778.3	716.7	650.8	637.6
50°	4317.9	3928.7	2126.0	978.3	776.1	743.1	721.1	679.3	611.2	560.6	547.4
52.5°	4986.2	4441.0	2163.3	886.0	712.3	690.3	664.0	613.4	540.8	510.1	505.7
55°	5753.5	5012.6	2238.1	804.7	657.4	642.0	617.8	569.4	514.5	492.5	490.3
57.5°	6538.4	5652.4	2343.6	732.1	604.6	595.8	595.8	554.0	518.8	510.1	510.1
60°	7294.7	6202.0	2262.3	664.0	556.2	560.6	602.4	591.4	565.0	576.0	582.6
62.5°	7881.7	6525.2	1835.8	609.0	521.0	560.6	668.3	668.3	637.6	633.2	633.2
65°	8132.3	6520.8	1290.5	567.2	507.9	615.6	745.3	710.1	628.8	598.0	591.4
67.5°	8068.5	6235.0	890.4	538.6	503.5	672.7	780.5	681.5	589.2	562.8	543.0
70°	7507.9	5630.4	685.9	512.3	496.9	648.6	769.5	648.6	558.4	534.2	516.7
72.5°	6056.9	4515.7	569.4	485.9	470.5	600.2	732.1	617.8	534.2	507.9	490.3
75°	3862.8	2840.5	481.5	450.7	419.9	538.6	681.5	587.0	507.9	472.7	459.5
77.5°	1857.7	1224.6	419.9	408.9	378.1	499.1	631.0	547.4	472.7	444.1	435.3
80°	751.9	560.6	365.0	367.2	347.4	474.9	595.8	510.1	437.5	406.7	391.3
82.5°	391.3	325.4	307.8	316.6	316.6	452.9	569.4	479.3	406.7	393.5	343.0
85°	211.1	202.3	237.4	255.0	274.8	408.9	529.8	446.3	371.5	318.8	307.8
87.5°	103.3	131.9	134.1	153.9	191.3	327.6	446.3	373.7	310.0	257.2	252.8
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)