

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: P399251

Luminaire Tested: **ARCH-L-PA3-110-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-110-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14532 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

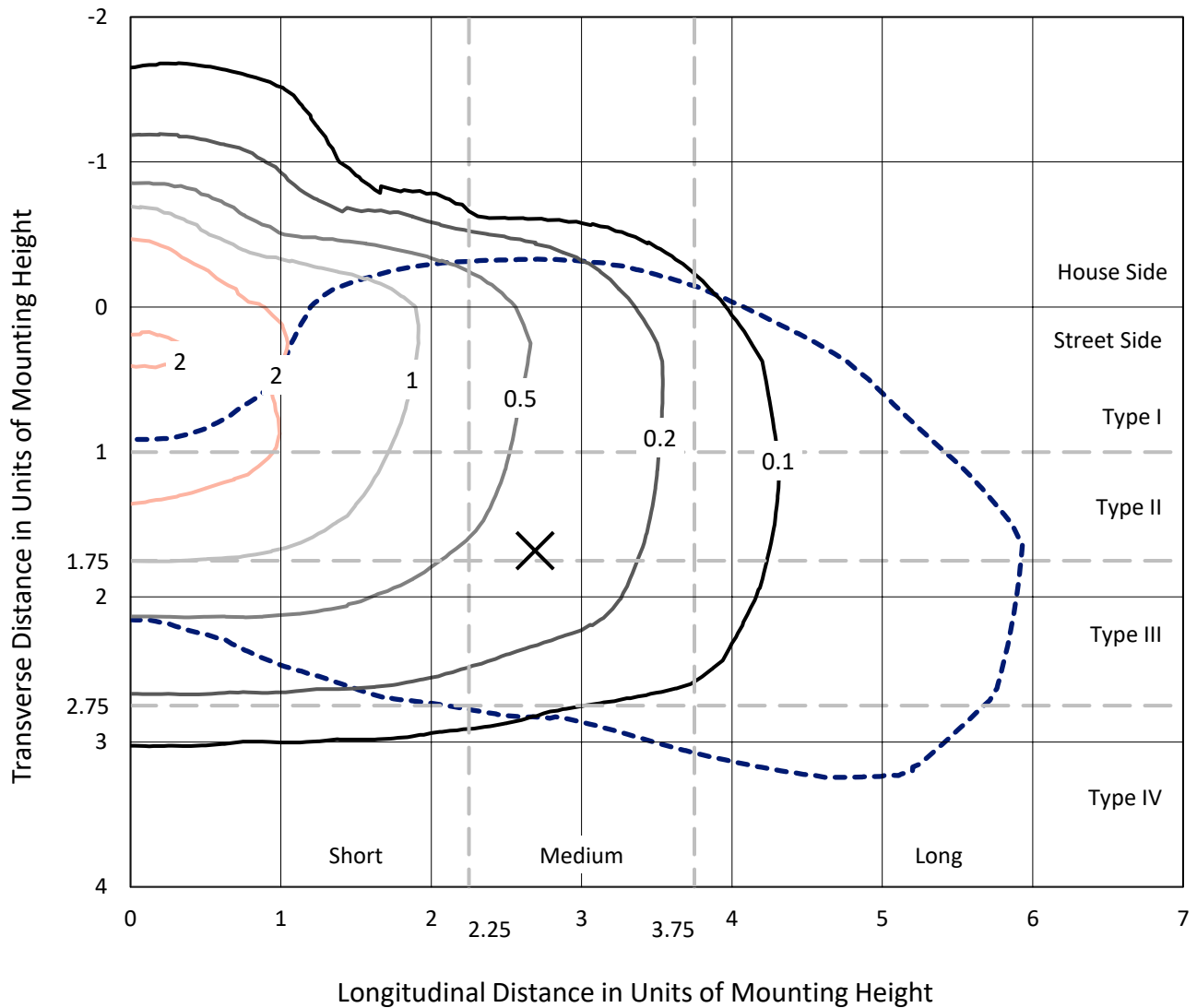
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399251
 CATALOG NUMBER: ARCH-L-PA3-110-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

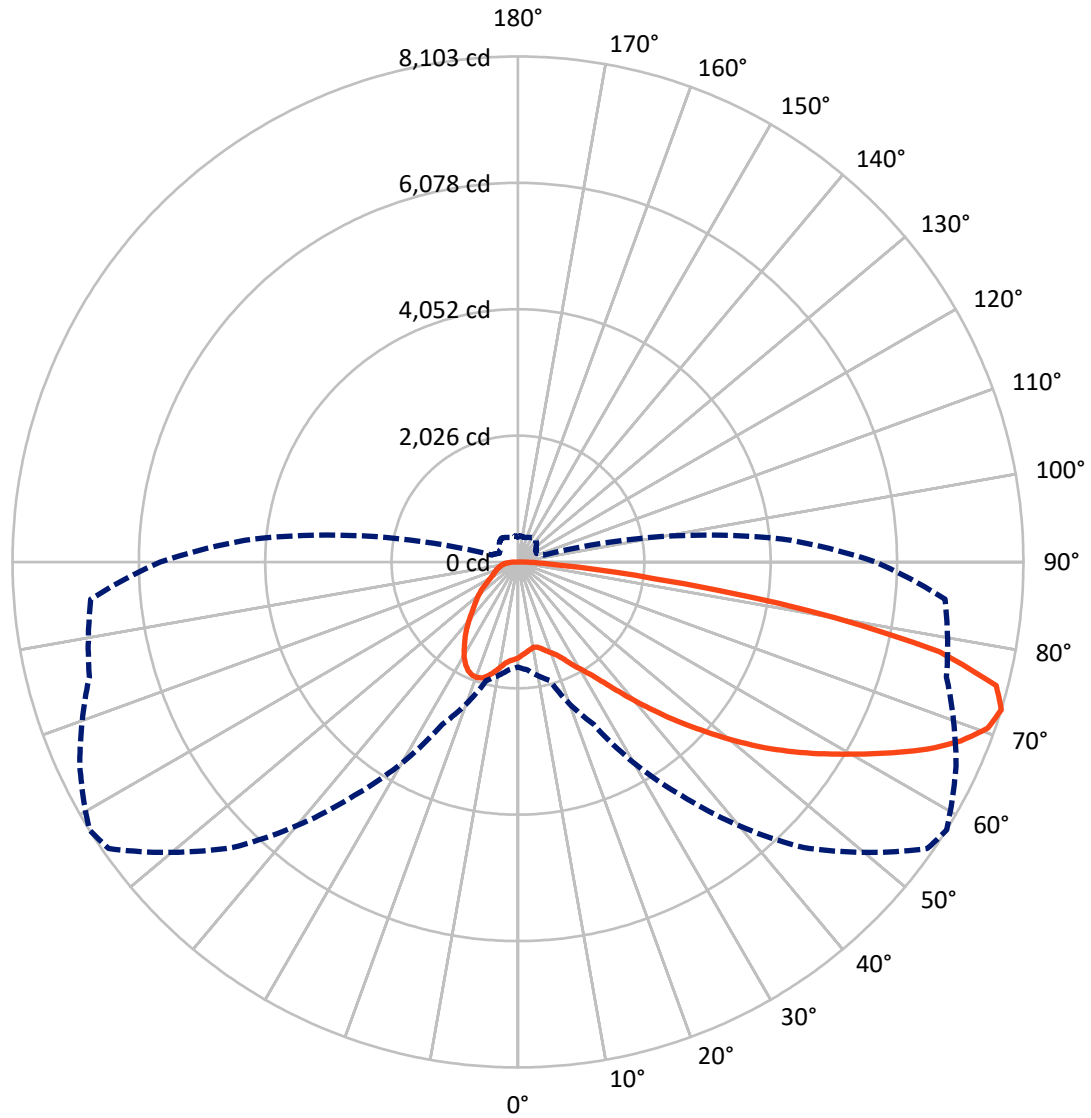
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P399251
CATALOG NUMBER: ARCH-L-PA3-110-830-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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 CATALOG NUMBER: ARCH-L-PA3-110-830-U-T3

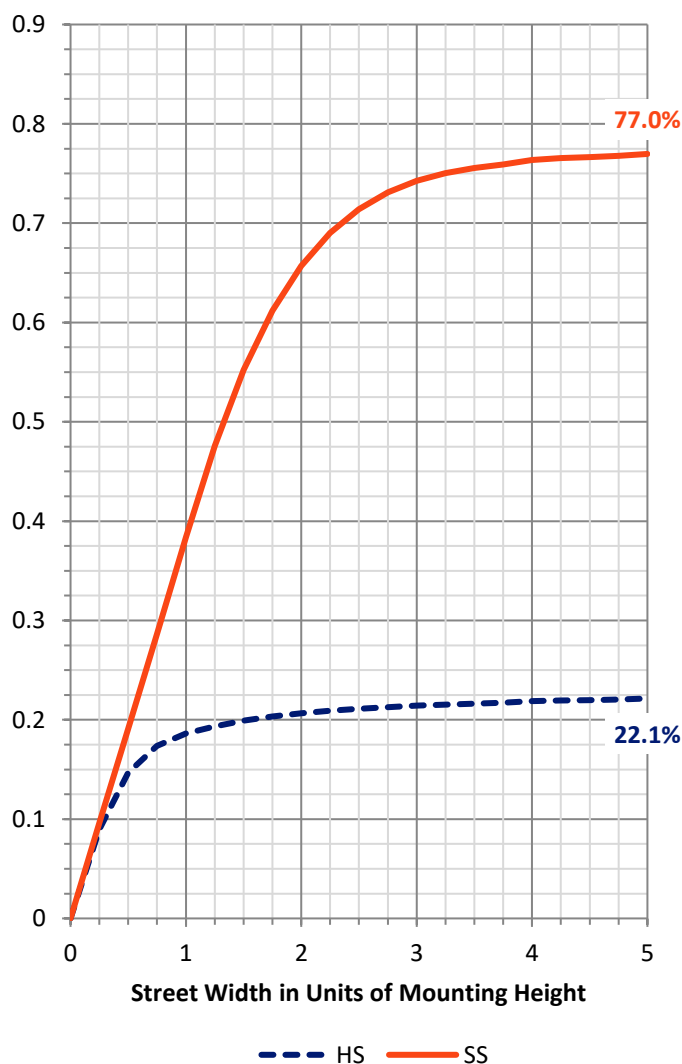
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3295.7	0.0	3295.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	11236.3	0.0	11236.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	14532.0	0.0	14532.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	1.0
10°-20°	468.9	3.2
20°-30°	840.0	5.8
30°-40°	1263.6	8.7
40°-50°	2046.2	14.1
50°-60°	3080.2	21.2
60°-70°	3625.1	24.9
70°-80°	2570.5	17.7
80°-90°	489.8	3.4
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°	14532.0	100.0
0°-180°	14532.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399251

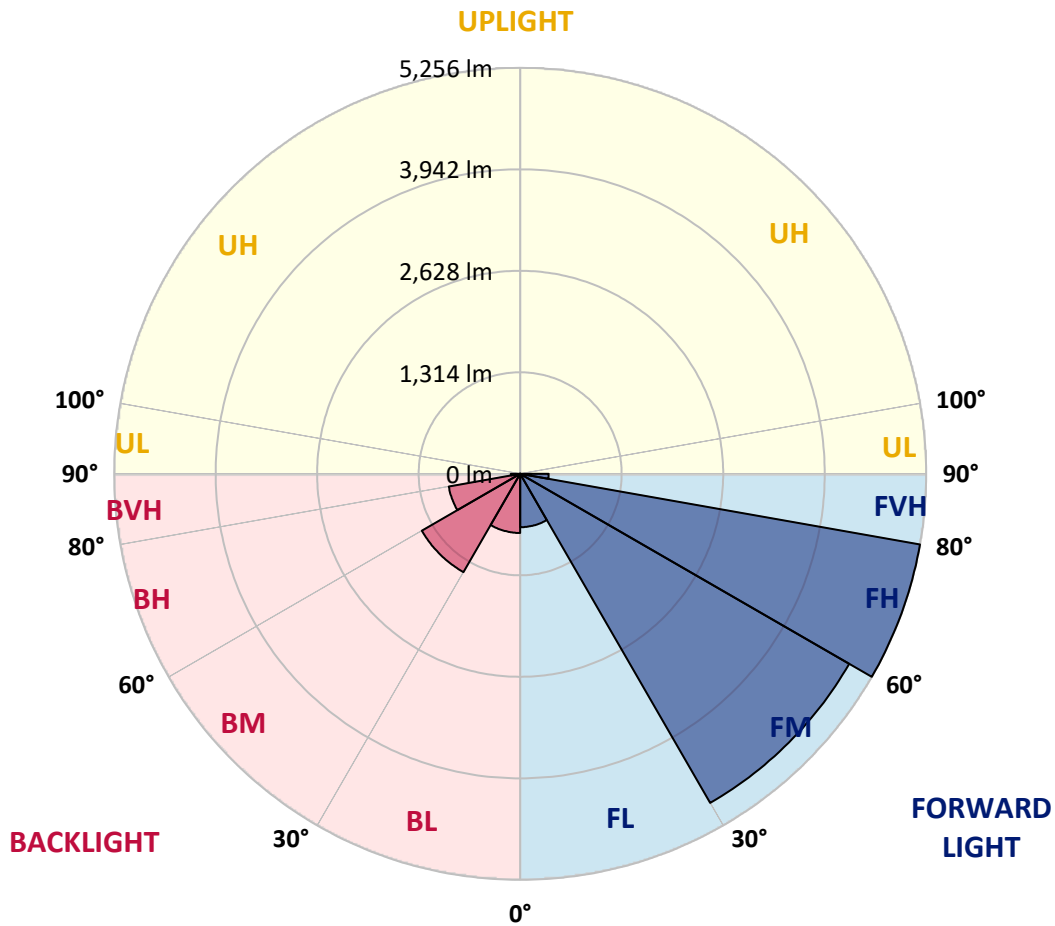
CATALOG NUMBER: ARCH-L-PA3-110-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	691.1	4.8			
FM (30°-60°)	4919.5	33.9			
FH (60°-80°)	5256.3	36.2			G3/7500
FVH (80°-90°)	369.5	2.5			G3/500
BL (0°-30°)	765.5	5.3	B2/1000		
BM (30°-60°)	1470.5	10.1	B2/2500		
BH (60°-80°)	939.3	6.5	B2/1000		G2/1000
BVH (80°-90°)	120.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





REPORT NUMBER: P399251

CATALOG NUMBER: ARCH-L-PA3-110-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8
2.5°	1475.3	1467.6	1469.5	1469.5	1477.2	1481.0	1482.9	1488.7	1492.5	1502.1	1515.6
5°	1406.2	1400.4	1402.4	1404.3	1417.7	1431.1	1442.7	1450.3	1461.8	1477.2	1496.4
7.5°	1356.3	1352.5	1354.4	1358.2	1369.8	1385.1	1404.3	1415.8	1433.1	1461.8	1494.4
10°	1319.9	1319.9	1321.8	1329.5	1341.0	1360.2	1375.5	1388.9	1423.5	1475.3	1525.1
12.5°	1291.1	1291.1	1296.9	1312.2	1331.4	1350.6	1387.0	1402.4	1448.4	1519.4	1578.9
15°	1289.2	1291.1	1293.0	1306.4	1327.5	1369.8	1423.5	1446.5	1502.1	1586.5	1655.6
17.5°	1319.9	1321.8	1314.1	1318.0	1342.9	1402.4	1473.3	1500.2	1571.2	1663.3	1734.3
20°	1413.9	1413.9	1390.9	1369.8	1387.0	1452.2	1532.8	1559.7	1638.3	1740.0	1811.0
22.5°	1605.7	1615.3	1561.6	1515.6	1488.7	1525.1	1598.0	1626.8	1715.1	1824.4	1895.4
25°	1837.8	1847.4	1774.5	1709.3	1659.4	1653.7	1701.6	1732.3	1805.2	1918.4	1977.9
27.5°	2062.3	2045.0	1977.9	1916.5	1853.2	1801.4	1837.8	1864.7	1949.1	2035.4	2071.9
30°	2238.8	2225.4	2160.1	2116.0	2056.5	1989.4	1968.3	1997.1	2066.1	2146.7	2165.9
32.5°	2434.5	2424.9	2359.7	2302.1	2252.2	2188.9	2142.9	2156.3	2194.7	2252.2	2263.7
35°	2683.9	2705.0	2635.9	2518.9	2463.3	2401.9	2369.2	2373.1	2401.9	2438.3	2419.1
37.5°	2946.7	2971.6	2975.5	2791.3	2716.5	2660.8	2626.3	2639.7	2674.3	2699.2	2639.7
40°	3434.0	3409.0	3309.3	3173.1	3058.0	3004.2	2956.3	2954.4	2979.3	3023.4	2916.0
42.5°	4080.5	4057.5	3856.0	3679.5	3497.3	3435.9	3341.9	3301.6	3313.1	3368.7	3219.1
45°	4700.1	4690.5	4529.4	4324.1	4105.4	3986.5	3771.6	3673.8	3664.2	3708.3	3529.9
47.5°	5250.7	5208.5	5091.5	4932.3	4909.2	4598.5	4203.3	4070.9	4024.8	4049.8	3850.3
50°	5839.7	5695.8	5534.6	5436.8	5603.7	5314.0	4638.7	4500.6	4387.4	4404.7	4197.5
52.5°	6152.4	5910.7	5805.1	5833.9	6058.4	5947.1	5112.6	4943.8	4761.5	4786.5	4542.8
55°	5883.8	5881.9	5927.9	6106.3	6419.0	6290.5	5563.4	5373.5	5174.0	5179.7	4939.9
57.5°	5515.5	5590.3	5828.2	6221.4	6866.0	6651.2	6006.6	5805.1	5622.9	5594.1	5390.8
60°	5179.7	5262.2	5607.5	6202.2	7021.4	6981.1	6428.6	6252.1	6104.4	6020.0	5864.6
62.5°	4669.4	4730.8	5220.0	6079.5	6891.0	7219.0	6856.4	6735.6	6624.3	6449.7	6374.9
65°	4069.0	4090.1	4606.1	5674.7	6727.9	7311.1	7282.3	7228.6	7121.2	6864.1	6879.5
67.5°	3418.6	3460.8	3913.6	5028.2	6371.1	7268.9	7612.3	7656.4	7529.8	7144.2	7201.7
70°	2726.1	2777.9	3121.3	4134.2	5764.9	7086.6	7917.3	7988.3	7744.7	7236.3	7261.2
72.5°	1686.3	1736.2	1966.4	2871.9	4569.7	6474.7	8011.3	8103.4	7750.4	7113.5	6873.7
75°	583.2	589.0	769.3	1377.4	2712.6	4888.1	7704.4	7921.2	7506.8	6666.5	5981.6
77.5°	266.7	276.3	341.5	567.9	1202.8	2637.8	6361.5	6904.4	6766.3	5968.2	4604.2
80°	184.2	188.0	236.0	339.6	694.5	928.5	4015.3	4723.1	4964.9	4621.5	2950.5
82.5°	138.1	142.0	182.2	230.2	500.7	450.8	1529.0	2194.7	2728.0	2678.1	1233.5
85°	132.4	130.5	142.0	153.5	333.8	268.6	495.0	679.1	1064.7	911.2	310.8
87.5°	57.6	63.3	145.8	86.3	174.6	124.7	214.9	251.3	324.2	282.0	111.3
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: P399251

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8	1532.8
2.5°	1521.3	1525.1	1536.7	1553.9	1563.5	1582.7	1596.1	1603.8	1609.6	1611.5	1611.5
5°	1507.9	1515.6	1540.5	1569.3	1596.1	1636.4	1672.9	1694.0	1709.3	1715.1	1717.0
7.5°	1511.7	1530.9	1567.3	1609.6	1644.1	1695.9	1740.0	1782.2	1816.7	1830.2	1830.2
10°	1548.2	1575.0	1624.9	1680.5	1724.7	1778.4	1824.4	1860.9	1901.2	1924.2	1928.0
12.5°	1603.8	1636.4	1701.6	1763.0	1812.9	1855.1	1897.3	1924.2	1943.4	1960.6	1964.5
15°	1682.5	1722.7	1788.0	1851.3	1895.4	1922.3	1933.8	1933.8	1931.8	1933.8	1937.6
17.5°	1761.1	1799.5	1864.7	1928.0	1949.1	1933.8	1920.3	1916.5	1914.6	1910.7	1912.7
20°	1837.8	1874.3	1929.9	1977.9	1960.6	1906.9	1889.6	1887.7	1882.0	1878.1	1874.3
22.5°	1914.6	1941.4	1987.5	2004.7	1935.7	1858.9	1837.8	1826.3	1818.7	1809.1	1799.5
25°	2002.8	2010.5	2045.0	2018.2	1874.3	1770.7	1740.0	1722.7	1715.1	1705.5	1697.8
27.5°	2085.3	2085.3	2091.1	1997.1	1784.1	1653.7	1607.6	1576.9	1575.0	1573.1	1571.2
30°	2160.1	2150.5	2131.4	1933.8	1667.1	1509.8	1440.7	1410.0	1421.5	1431.1	1433.1
32.5°	2248.4	2229.2	2175.5	1847.4	1527.1	1348.6	1264.2	1250.8	1264.2	1275.7	1268.1
35°	2386.5	2352.0	2221.5	1747.7	1392.8	1200.9	1120.4	1101.2	1097.3	1095.4	1080.1
37.5°	2584.1	2524.6	2258.0	1640.2	1260.4	1070.5	1011.0	970.7	934.3	895.9	890.1
40°	2825.8	2724.2	2282.9	1517.5	1120.4	961.1	897.8	846.0	784.6	717.5	709.8
42.5°	3090.6	2939.0	2294.4	1381.3	997.6	871.0	792.3	727.1	658.0	606.2	596.6
45°	3376.4	3171.1	2284.8	1250.8	897.8	794.2	706.0	635.0	579.4	542.9	535.2
47.5°	3654.6	3437.8	2258.0	1147.2	821.1	729.0	638.8	573.6	531.4	491.1	481.5
50°	4011.4	3693.0	2225.4	1066.6	736.7	663.8	596.6	527.6	479.6	460.4	456.6
52.5°	4406.6	3948.1	2187.0	965.0	654.2	612.0	569.8	508.4	493.0	456.6	450.8
55°	4834.4	4251.2	2179.3	836.4	581.3	575.5	542.9	525.6	529.5	456.6	447.0
57.5°	5285.2	4575.4	2196.6	707.9	521.8	542.9	554.4	541.0	535.2	466.2	447.0
60°	5755.3	4888.1	2144.8	589.0	475.8	516.1	567.9	533.3	491.1	462.3	448.9
62.5°	6211.8	5151.0	1920.3	504.5	441.2	508.4	560.2	504.5	456.6	456.6	450.8
65°	6543.7	5268.0	1502.1	443.2	418.2	498.8	546.7	485.4	447.0	460.4	452.7
67.5°	6582.1	5147.1	1009.1	395.2	399.0	481.5	516.1	468.1	437.4	471.9	460.4
70°	6346.1	4832.5	617.7	358.7	374.1	450.8	489.2	450.8	424.0	462.3	445.1
72.5°	5734.2	4245.5	435.5	328.0	347.2	422.1	464.3	435.5	404.8	418.2	400.9
75°	4704.0	3290.1	345.3	299.3	320.4	395.2	443.2	412.5	381.8	376.0	364.5
77.5°	3332.3	2108.3	278.2	276.3	291.6	362.6	414.4	385.6	354.9	343.4	335.7
80°	1916.5	1034.0	239.8	249.4	264.7	330.0	379.8	354.9	326.1	308.9	297.4
82.5°	732.8	360.7	211.0	216.8	234.0	295.4	345.3	324.2	295.4	310.8	260.9
85°	237.9	197.6	172.7	178.4	195.7	245.6	305.0	287.8	255.1	226.4	209.1
87.5°	105.5	107.4	92.1	101.7	122.8	163.1	222.5	211.0	186.1	155.4	149.6
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)