

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: P399136

Luminaire Tested: **ARCH-L-PA3-100-730-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399136  
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-PA3-100-730-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 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: 15172 lumens  
Efficiency: N/A  
Efficacy: 148.7 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

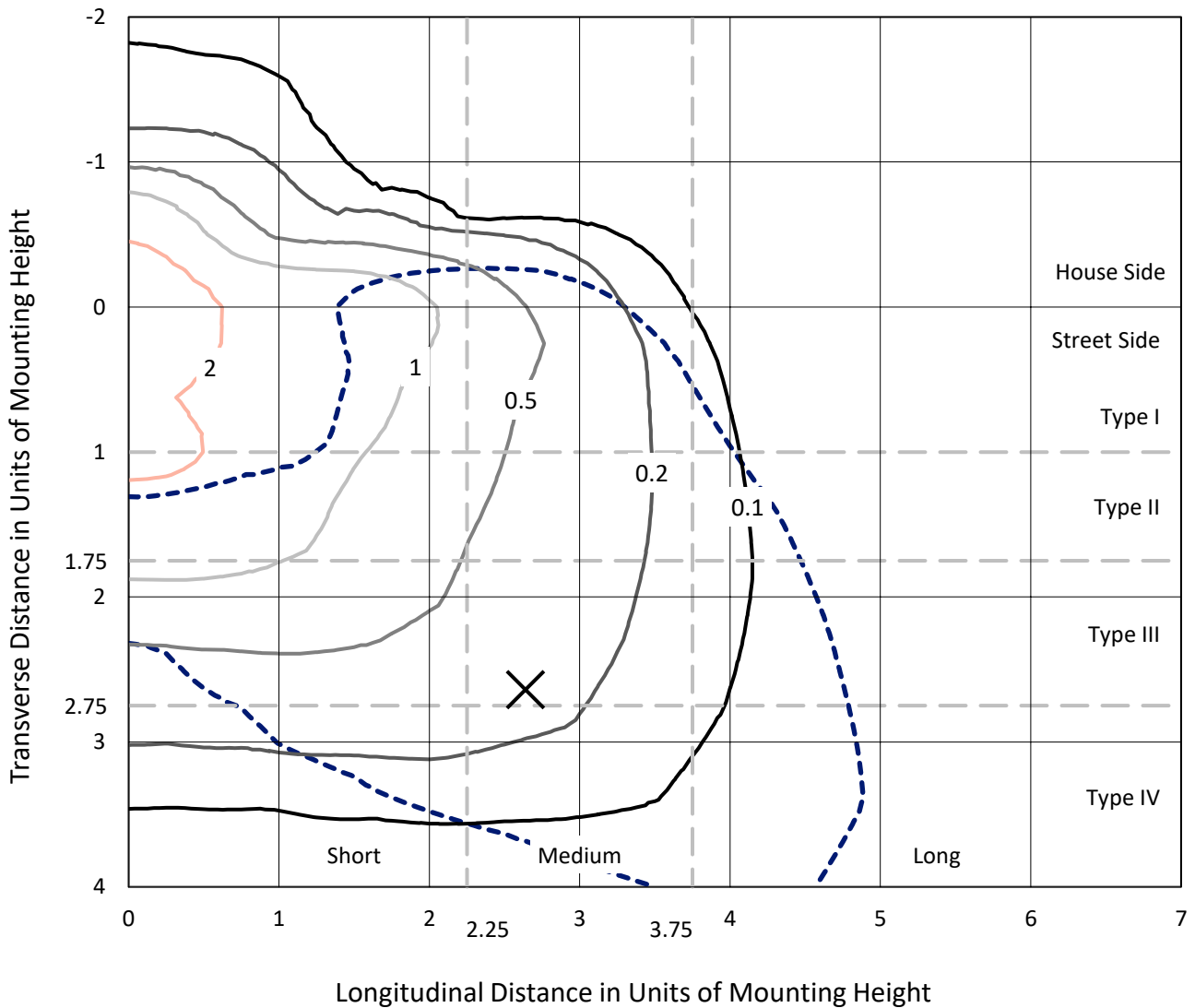
Input Watts (W): 102  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

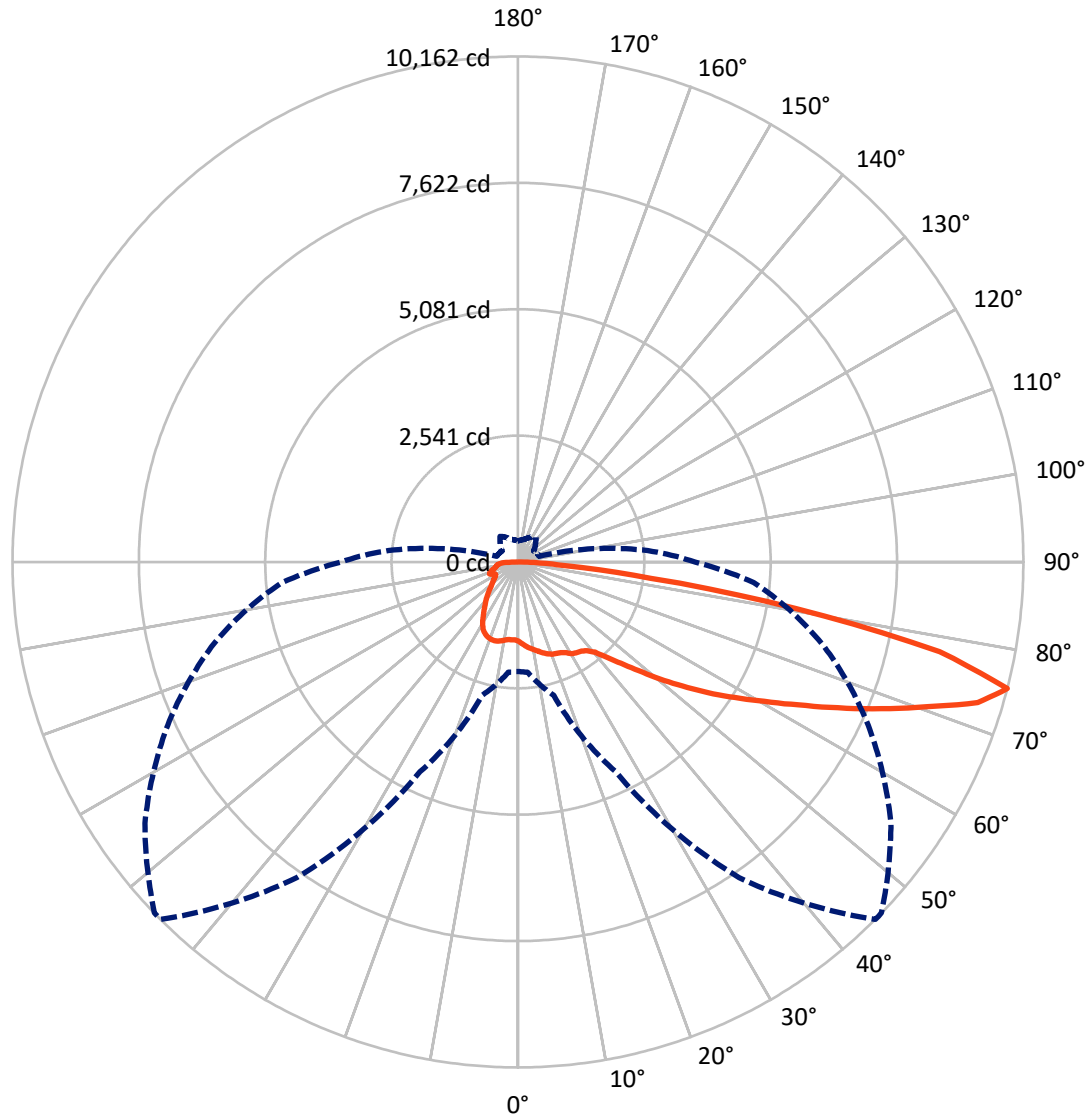
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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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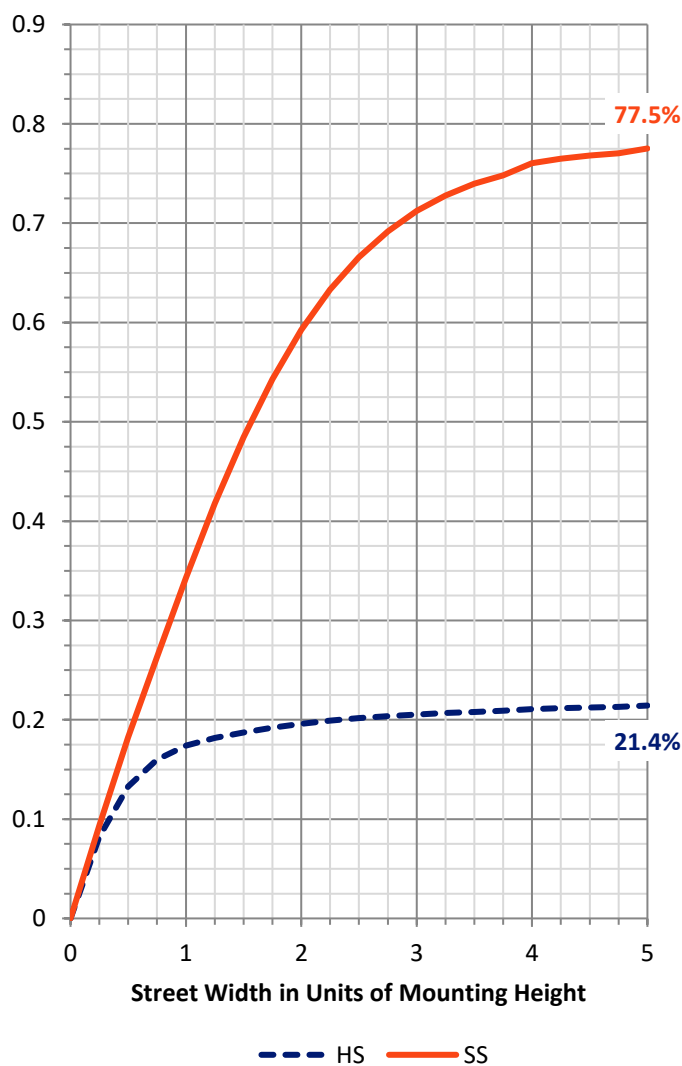
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3352.9	0.0	3352.9
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	11819.1	0.0	11819.1
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	15172.0	0.0	15172.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.6	1.0
10°-20°	501.5	3.3
20°-30°	855.0	5.6
30°-40°	1197.9	7.9
40°-50°	1759.9	11.6
50°-60°	2800.9	18.5
60°-70°	3984.3	26.3
70°-80°	3336.0	22.0
80°-90°	579.0	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°	15172.0	100.0
0°-180°	15172.0	100.0

**Coefficient of Utilization**

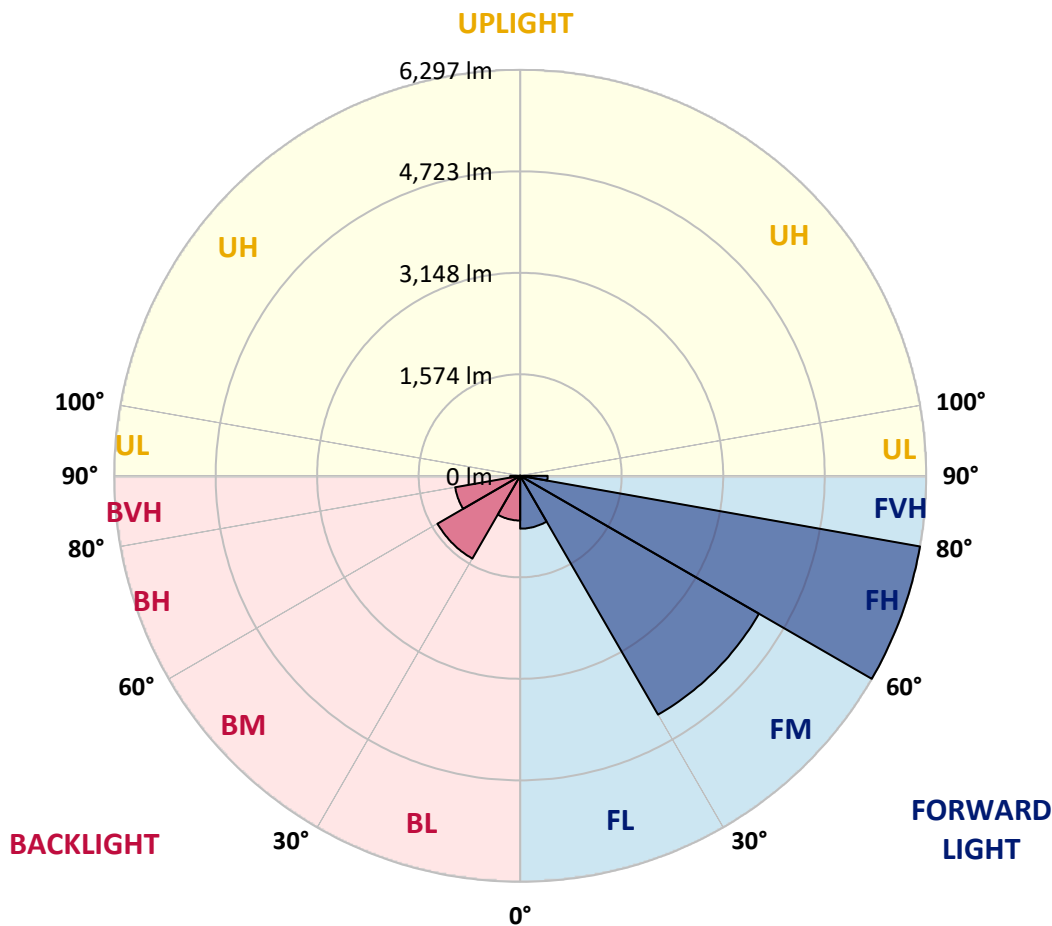


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	820.1	5.4			
FM (30°-60°)	4276.5	28.2			
FH (60°-80°)	6296.8	41.5			G3/7500
FVH (80°-90°)	425.6	2.8			G3/500
BL (0°-30°)	693.9	4.6	B2/1000		
BM (30°-60°)	1482.2	9.8	B2/2500		
BH (60°-80°)	1023.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	153.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4
2.5°	1684.6	1676.5	1672.5	1672.5	1656.2	1646.1	1644.1	1629.9	1617.7	1605.6	1595.4
5°	1781.9	1775.8	1763.7	1753.5	1731.2	1702.9	1698.8	1668.4	1638.0	1609.6	1585.3
7.5°	1871.1	1859.0	1844.8	1824.5	1788.0	1749.5	1743.4	1700.8	1658.3	1615.7	1583.3
10°	1946.1	1934.0	1913.7	1885.3	1838.7	1792.1	1786.0	1741.4	1696.8	1646.1	1599.5
12.5°	2017.1	2006.9	1976.5	1938.0	1883.3	1840.7	1834.6	1796.1	1749.5	1692.7	1631.9
15°	2077.9	2067.8	2035.3	1990.7	1927.9	1895.4	1887.3	1850.8	1804.2	1743.4	1680.6
17.5°	2108.3	2108.3	2073.8	2025.2	1966.4	1942.1	1936.0	1891.4	1848.8	1790.0	1727.2
20°	2118.4	2122.5	2098.2	2039.4	1988.7	1978.6	1972.5	1936.0	1887.3	1830.6	1771.8
22.5°	2124.5	2132.6	2112.4	2045.5	2002.9	1996.8	1992.8	1968.4	1929.9	1875.2	1816.4
25°	2144.8	2144.8	2130.6	2055.6	2021.1	2019.1	2019.1	2004.9	1978.6	1931.9	1873.1
27.5°	2175.2	2173.2	2154.9	2077.9	2061.7	2067.8	2065.7	2063.7	2045.5	1998.8	1936.0
30°	2225.9	2225.9	2205.6	2122.5	2112.4	2138.7	2140.7	2144.8	2116.4	2043.4	1992.8
32.5°	2302.9	2294.8	2274.5	2167.1	2150.9	2175.2	2179.3	2177.2	2152.9	2084.0	2059.7
35°	2540.1	2521.9	2448.9	2266.4	2185.3	2199.5	2201.6	2211.7	2215.7	2161.0	2148.8
37.5°	2955.7	2931.4	2819.9	2501.6	2294.8	2260.3	2258.3	2284.7	2307.0	2258.3	2258.3
40°	3407.8	3387.5	3322.6	2907.0	2497.5	2384.0	2375.9	2400.2	2428.6	2394.1	2404.3
42.5°	3797.0	3813.2	3819.3	3336.8	2801.6	2615.1	2592.8	2558.3	2602.9	2572.5	2613.1
45°	4088.9	4080.8	4192.3	3776.7	3194.9	2905.0	2874.6	2781.3	2838.1	2836.1	2925.3
47.5°	4399.1	4384.9	4431.5	4190.3	3642.9	3259.8	3213.1	3075.3	3160.4	3219.2	3367.2
50°	4693.0	4697.1	4713.3	4516.6	4129.4	3691.6	3632.8	3448.3	3569.9	3693.6	3902.4
52.5°	5076.1	5047.8	5027.5	4897.8	4674.8	4141.6	4103.1	3892.3	4062.5	4208.5	4486.2
55°	5410.6	5392.4	5380.2	5374.2	5130.9	4638.3	4597.7	4378.8	4624.1	4727.5	5137.0
57.5°	5767.4	5757.3	5822.2	5925.6	5828.2	5143.0	5100.5	4889.6	5163.3	5236.3	5842.4
60°	6028.9	6035.0	6213.4	6477.0	6410.1	5690.4	5639.7	5453.2	5688.4	5753.2	6547.9
62.5°	6031.0	6091.8	6505.3	6977.7	7054.7	6320.9	6262.1	6059.3	6227.6	6227.6	7180.4
65°	5455.2	5524.2	6452.6	7101.3	7707.5	7070.9	7014.2	6695.9	6758.7	6673.6	7774.4
67.5°	4881.5	4962.6	5836.4	7111.5	8165.6	7873.7	7806.8	7332.4	7225.0	7010.1	8190.0
70°	4500.4	4557.2	5287.0	6979.7	8441.3	8713.0	8662.3	7936.6	7591.9	7291.9	8102.8
72.5°	3788.9	3768.6	4466.0	6353.3	8595.4	9665.8	9623.2	8593.4	7910.2	7158.1	6910.8
75°	2199.5	2223.9	2771.2	4654.5	7748.0	10162.4	10158.4	9154.9	7770.3	6322.9	4761.9
77.5°	634.5	652.8	910.2	2045.5	4899.8	8668.4	8946.1	8372.4	6568.2	4506.5	2469.1
80°	277.7	291.9	395.3	681.1	2110.3	5662.0	5905.3	5662.0	3961.2	2067.8	969.0
82.5°	164.2	174.3	257.5	421.7	1011.6	2694.2	3022.6	2639.4	1708.9	877.8	401.4
85°	93.3	97.3	148.0	267.6	636.5	942.7	1058.2	991.3	833.2	498.7	210.8
87.5°	42.6	44.6	73.0	125.7	356.8	318.3	330.4	437.9	482.5	304.1	105.4
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°	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4	1593.4
2.5°	1591.4	1585.3	1573.1	1569.1	1563.0	1565.0	1567.0	1567.0	1569.1	1563.0	1563.0
5°	1575.1	1565.0	1552.8	1552.8	1552.8	1569.1	1583.3	1591.4	1595.4	1595.4	1591.4
7.5°	1569.1	1556.9	1542.7	1546.8	1550.8	1571.1	1597.4	1623.8	1631.9	1631.9	1627.9
10°	1581.2	1569.1	1558.9	1565.0	1575.1	1591.4	1611.6	1636.0	1656.2	1658.3	1656.2
12.5°	1609.6	1595.4	1585.3	1597.4	1609.6	1619.7	1629.9	1640.0	1666.4	1670.4	1670.4
15°	1656.2	1642.0	1629.9	1640.0	1644.1	1644.1	1644.1	1644.1	1670.4	1674.5	1674.5
17.5°	1702.9	1690.7	1678.5	1680.6	1668.4	1652.2	1646.1	1644.1	1658.3	1670.4	1672.5
20°	1747.5	1737.3	1725.2	1704.9	1674.5	1644.1	1633.9	1633.9	1642.0	1660.3	1660.3
22.5°	1796.1	1784.0	1763.7	1717.1	1666.4	1623.8	1613.7	1619.7	1629.9	1654.2	1652.2
25°	1850.8	1834.6	1800.2	1713.0	1640.0	1589.3	1591.4	1609.6	1627.9	1654.2	1654.2
27.5°	1911.7	1889.4	1820.4	1680.6	1581.2	1532.6	1550.8	1593.4	1619.7	1648.1	1652.2
30°	1978.6	1958.3	1836.7	1623.8	1485.9	1441.4	1485.9	1554.9	1595.4	1621.8	1627.9
32.5°	2059.7	2043.4	1850.8	1550.8	1362.3	1323.8	1388.6	1473.8	1538.7	1569.1	1575.1
35°	2161.0	2144.8	1869.1	1467.7	1246.7	1206.2	1265.0	1352.2	1437.3	1475.8	1488.0
37.5°	2292.8	2268.5	1885.3	1378.5	1149.4	1102.8	1131.2	1210.2	1287.3	1340.0	1354.2
40°	2461.0	2422.5	1899.5	1277.1	1064.3	1011.6	1021.7	1060.2	1104.8	1151.5	1169.7
42.5°	2698.2	2621.2	1901.5	1169.7	977.1	928.5	924.4	936.6	936.6	936.6	942.7
45°	3028.7	2882.7	1905.6	1068.3	887.9	837.2	825.1	821.0	790.6	731.8	727.8
47.5°	3446.3	3225.3	1923.8	983.2	794.7	750.1	733.9	717.6	660.9	600.1	587.9
50°	3981.5	3622.6	1960.3	902.1	715.6	685.2	664.9	626.4	563.6	516.9	504.8
52.5°	4597.7	4095.0	1994.8	817.0	656.8	636.5	612.2	565.6	498.7	470.3	466.3
55°	5305.2	4622.1	2063.7	742.0	606.1	591.9	569.6	525.0	474.4	454.1	452.1
57.5°	6028.9	5212.0	2161.0	675.1	557.5	549.4	549.4	510.9	478.4	470.3	470.3
60°	6726.3	5718.8	2086.0	612.2	512.9	516.9	555.5	545.3	521.0	531.1	537.2
62.5°	7267.6	6016.8	1692.7	561.5	480.5	516.9	616.3	616.3	587.9	583.8	583.8
65°	7498.7	6012.7	1190.0	523.0	468.3	567.6	687.2	654.8	579.8	551.4	545.3
67.5°	7439.9	5749.2	821.0	496.7	464.2	620.3	719.7	628.4	543.3	519.0	500.7
70°	6922.9	5191.7	632.5	472.3	458.2	598.0	709.5	598.0	514.9	492.6	476.4
72.5°	5585.0	4163.9	525.0	448.0	433.8	553.4	675.1	569.6	492.6	468.3	452.1
75°	3561.8	2619.2	444.0	415.6	387.2	496.7	628.4	541.3	468.3	435.9	423.7
77.5°	1713.0	1129.2	387.2	377.1	348.7	460.2	581.8	504.8	435.9	409.5	401.4
80°	693.3	516.9	336.5	338.5	320.3	437.9	549.4	470.3	403.4	375.0	360.8
82.5°	360.8	300.0	283.8	291.9	291.9	417.6	525.0	441.9	375.0	362.9	316.2
85°	194.6	186.5	218.9	235.2	253.4	377.1	488.6	411.5	342.6	293.9	283.8
87.5°	95.3	121.6	123.7	141.9	176.4	302.1	411.5	344.6	285.8	237.2	233.1
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)