

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: P399199

Luminaire Tested: **ARCH-L-PA3-110-727-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399199
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-PA3-110-727-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 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: 15230 lumens
Efficiency: N/A
Efficacy: 134.8 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

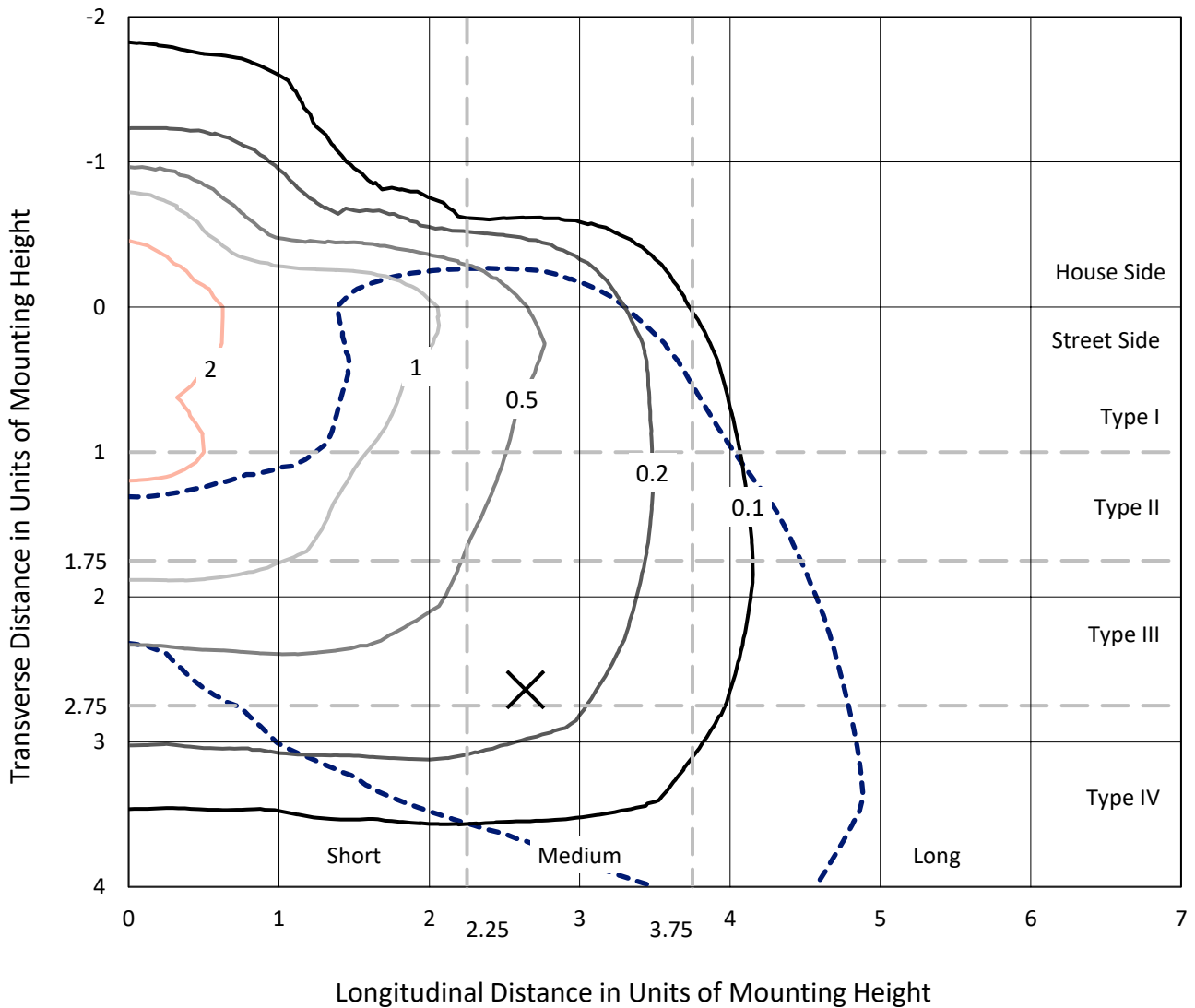
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

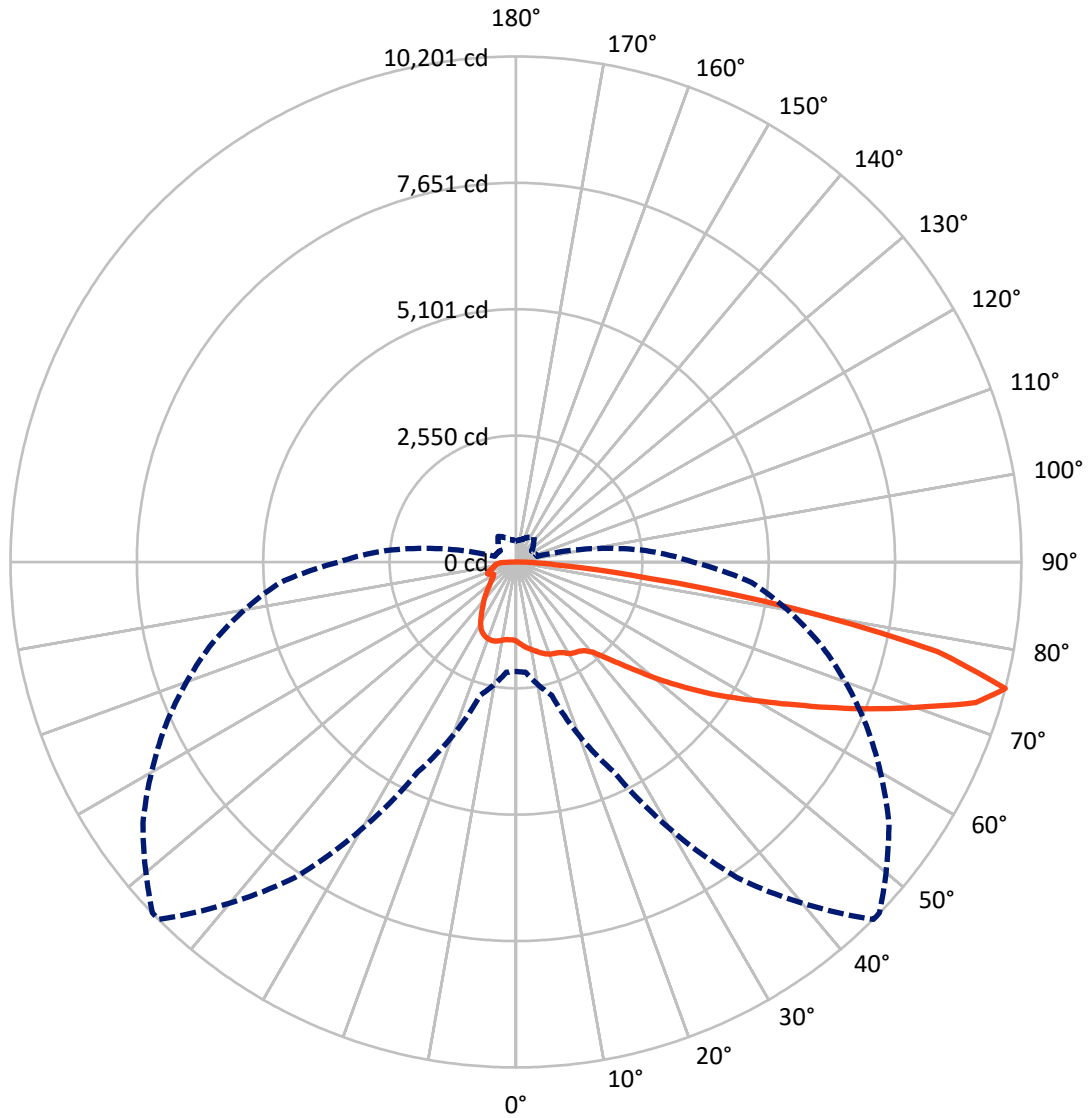
✕ Max cd
 - - - 1/2 Max cd



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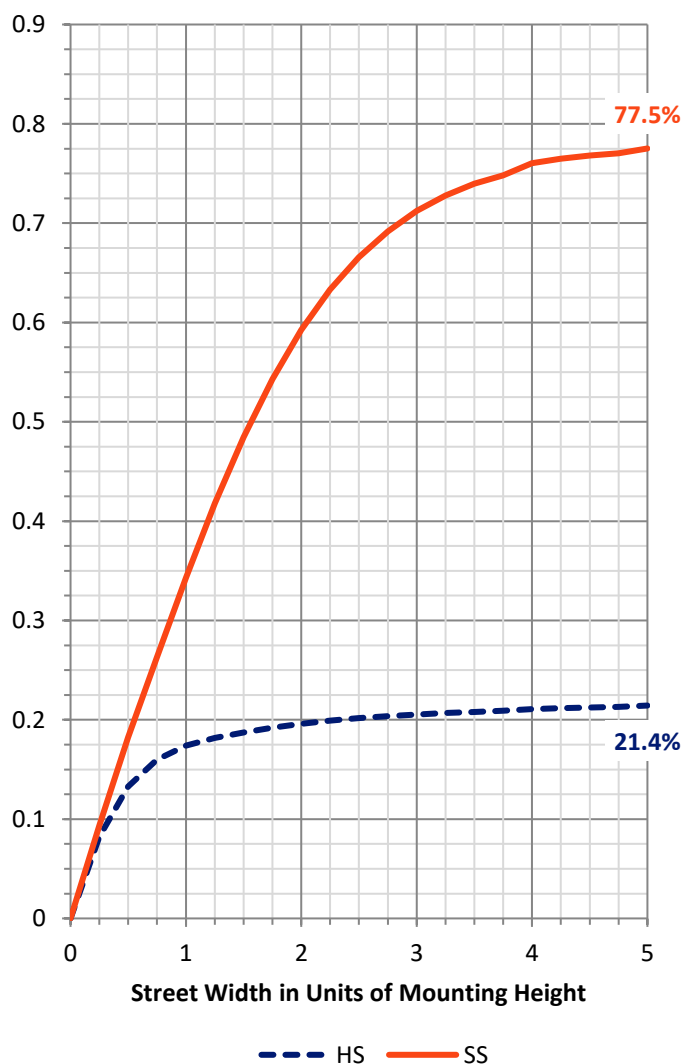
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3365.8	0.0	3365.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	11864.2	0.0	11864.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	15230.0	0.0	15230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	1.0
10°-20°	503.4	3.3
20°-30°	858.2	5.6
30°-40°	1202.5	7.9
40°-50°	1766.6	11.6
50°-60°	2811.6	18.5
60°-70°	3999.5	26.3
70°-80°	3348.8	22.0
80°-90°	581.2	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°	15230.0	100.0
0°-180°	15230.0	100.0

Coefficient of Utilization



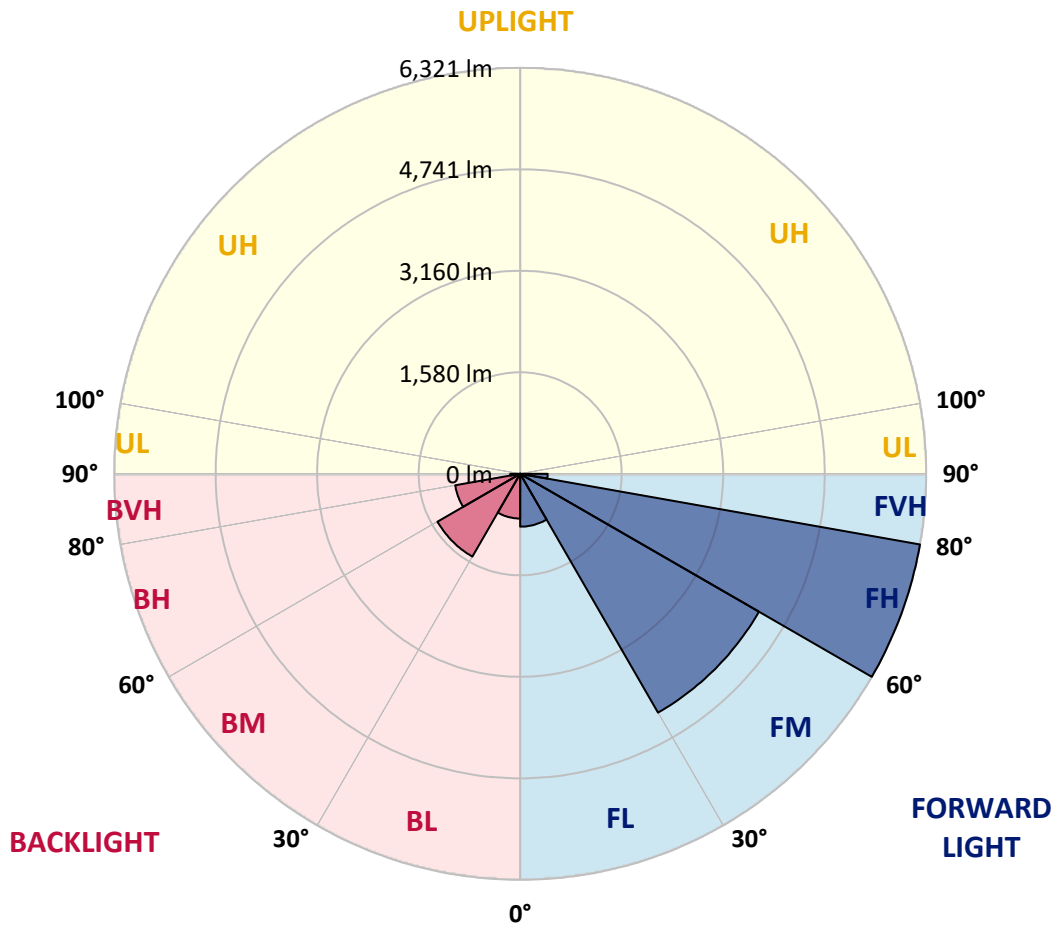
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	823.3	5.4			
FM (30°-60°)	4292.9	28.2			
FH (60°-80°)	6320.8	41.5			G3/7500
FVH (80°-90°)	427.3	2.8			G3/500
BL (0°-30°)	696.6	4.6	B2/1000		
BM (30°-60°)	1487.8	9.8	B2/2500		
BH (60°-80°)	1027.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	153.9	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°	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5
2.5°	1691.1	1682.9	1678.8	1678.8	1662.6	1652.4	1650.4	1636.1	1623.9	1611.7	1601.5
5°	1788.7	1782.6	1770.4	1760.2	1737.9	1709.4	1705.3	1674.8	1644.3	1615.8	1591.3
7.5°	1878.3	1866.1	1851.8	1831.5	1794.8	1756.2	1750.1	1707.3	1664.6	1621.9	1589.3
10°	1953.6	1941.4	1921.0	1892.5	1845.7	1798.9	1792.8	1748.0	1703.3	1652.4	1605.6
12.5°	2024.8	2014.6	1984.1	1945.4	1890.5	1847.7	1841.6	1803.0	1756.2	1699.2	1638.1
15°	2085.8	2075.7	2043.1	1998.3	1935.3	1902.7	1894.6	1857.9	1811.1	1750.1	1687.0
17.5°	2116.4	2116.4	2081.8	2032.9	1973.9	1949.5	1943.4	1898.6	1855.9	1796.9	1733.8
20°	2126.5	2130.6	2106.2	2047.2	1996.3	1986.1	1980.0	1943.4	1894.6	1837.6	1778.6
22.5°	2132.6	2140.8	2120.4	2053.3	2010.5	2004.4	2000.4	1976.0	1937.3	1882.3	1823.3
25°	2153.0	2153.0	2138.7	2063.5	2028.9	2026.8	2026.8	2012.6	1986.1	1939.3	1880.3
27.5°	2183.5	2181.5	2163.2	2085.8	2069.6	2075.7	2073.6	2071.6	2053.3	2006.5	1943.4
30°	2234.4	2234.4	2214.0	2130.6	2120.4	2146.9	2148.9	2153.0	2124.5	2051.2	2000.4
32.5°	2311.7	2303.6	2283.2	2175.4	2159.1	2183.5	2187.6	2185.6	2161.1	2091.9	2067.5
35°	2549.8	2531.5	2458.2	2275.1	2193.7	2207.9	2210.0	2220.1	2224.2	2169.3	2157.1
37.5°	2967.0	2942.6	2830.6	2511.1	2303.6	2269.0	2267.0	2293.4	2315.8	2267.0	2267.0
40°	3420.8	3400.4	3335.3	2918.1	2507.1	2393.1	2385.0	2409.4	2437.9	2403.3	2413.5
42.5°	3811.5	3827.8	3833.9	3349.6	2812.3	2625.1	2602.7	2568.1	2612.9	2582.4	2623.1
45°	4104.5	4096.4	4208.3	3791.1	3207.1	2916.1	2885.6	2792.0	2849.0	2846.9	2936.5
47.5°	4415.9	4401.6	4448.4	4206.3	3656.8	3272.2	3225.4	3087.0	3172.5	3231.5	3380.1
50°	4710.9	4715.0	4731.3	4533.9	4145.2	3705.7	3646.7	3461.5	3583.6	3707.7	3917.3
52.5°	5095.6	5067.1	5046.7	4916.5	4692.6	4157.4	4118.8	3907.1	4078.1	4224.6	4503.4
55°	5431.3	5413.0	5400.8	5394.7	5150.5	4656.0	4615.3	4395.5	4641.8	4745.5	5156.6
57.5°	5789.5	5779.3	5844.4	5948.2	5850.5	5162.7	5120.0	4908.3	5183.1	5256.3	5864.8
60°	6052.0	6058.1	6237.2	6501.7	6434.6	5712.1	5661.3	5474.1	5710.1	5775.2	6572.9
62.5°	6054.0	6115.1	6530.2	7004.4	7081.7	6345.0	6286.0	6082.5	6251.4	6251.4	7207.8
65°	5476.1	5545.3	6477.3	7128.5	7736.9	7098.0	7041.0	6721.5	6784.6	6699.1	7804.1
67.5°	4900.2	4981.6	5858.7	7138.7	8196.8	7903.8	7836.7	7360.5	7252.6	7036.9	8221.3
70°	4517.6	4574.6	5307.2	7006.4	8473.6	8746.3	8695.4	7966.9	7620.9	7319.8	8133.8
72.5°	3803.4	3783.0	4483.0	6377.6	8628.3	9702.7	9660.0	8626.2	7940.4	7185.5	6937.2
75°	2207.9	2232.4	2781.8	4672.3	7777.6	10201.3	10197.2	9189.9	7800.0	6347.1	4780.1
77.5°	636.9	655.3	913.7	2053.3	4918.5	8701.5	8980.3	8404.4	6593.3	4523.7	2478.6
80°	278.8	293.0	396.8	683.7	2118.4	5683.7	5927.9	5683.7	3976.3	2075.7	972.7
82.5°	164.8	175.0	258.4	423.3	1015.4	2704.5	3034.1	2649.5	1715.5	881.1	402.9
85°	93.6	97.7	148.6	268.6	639.0	946.3	1062.3	995.1	836.4	500.6	211.6
87.5°	42.7	44.8	73.3	126.2	358.2	319.5	331.7	439.6	484.3	305.2	105.8
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°	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5	1599.5
2.5°	1597.4	1591.3	1579.1	1575.1	1569.0	1571.0	1573.0	1573.0	1575.1	1569.0	1569.0
5°	1581.2	1571.0	1558.8	1558.8	1558.8	1575.1	1589.3	1597.4	1601.5	1601.5	1597.4
7.5°	1575.1	1562.9	1548.6	1552.7	1556.7	1577.1	1603.6	1630.0	1638.1	1638.1	1634.1
10°	1587.3	1575.1	1564.9	1571.0	1581.2	1597.4	1617.8	1642.2	1662.6	1664.6	1662.6
12.5°	1615.8	1601.5	1591.3	1603.6	1615.8	1625.9	1636.1	1646.3	1672.7	1676.8	1676.8
15°	1662.6	1648.3	1636.1	1646.3	1650.4	1650.4	1650.4	1650.4	1676.8	1680.9	1680.9
17.5°	1709.4	1697.2	1685.0	1687.0	1674.8	1658.5	1652.4	1650.4	1664.6	1676.8	1678.8
20°	1754.1	1744.0	1731.8	1711.4	1680.9	1650.4	1640.2	1640.2	1648.3	1666.6	1666.6
22.5°	1803.0	1790.8	1770.4	1723.6	1672.7	1630.0	1619.8	1625.9	1636.1	1660.5	1658.5
25°	1857.9	1841.6	1807.0	1719.5	1646.3	1595.4	1597.4	1615.8	1634.1	1660.5	1660.5
27.5°	1919.0	1896.6	1827.4	1687.0	1587.3	1538.4	1556.7	1599.5	1625.9	1654.4	1658.5
30°	1986.1	1965.8	1843.7	1630.0	1491.6	1446.9	1491.6	1560.8	1601.5	1628.0	1634.1
32.5°	2067.5	2051.2	1857.9	1556.7	1367.5	1328.8	1394.0	1479.4	1544.5	1575.1	1581.2
35°	2169.3	2153.0	1876.2	1473.3	1251.5	1210.8	1269.8	1357.3	1442.8	1481.5	1493.7
37.5°	2301.5	2277.1	1892.5	1383.8	1153.8	1107.0	1135.5	1214.9	1292.2	1345.1	1359.4
40°	2470.4	2431.8	1906.8	1282.0	1068.4	1015.4	1025.6	1064.3	1109.1	1155.9	1174.2
42.5°	2708.5	2631.2	1908.8	1174.2	980.9	932.0	927.9	940.2	940.2	940.2	946.3
45°	3040.2	2893.7	1912.9	1072.4	891.3	840.4	828.2	824.2	793.6	734.6	730.6
47.5°	3459.4	3237.6	1931.2	987.0	797.7	752.9	736.7	720.4	663.4	602.3	590.1
50°	3996.7	3636.5	1967.8	905.6	718.3	687.8	667.5	628.8	565.7	518.9	506.7
52.5°	4615.3	4110.6	2002.4	820.1	659.3	639.0	614.6	567.8	500.6	472.1	468.0
55°	5325.5	4639.7	2071.6	744.8	608.5	594.2	571.8	527.1	476.2	455.8	453.8
57.5°	6052.0	5231.9	2169.3	677.6	559.6	551.5	551.5	512.8	480.3	472.1	472.1
60°	6752.0	5740.6	2094.0	614.6	514.8	518.9	557.6	547.4	523.0	533.2	539.3
62.5°	7295.4	6039.8	1699.2	563.7	482.3	518.9	618.6	618.6	590.1	586.1	586.1
65°	7527.3	6035.7	1194.5	525.0	470.1	569.8	689.9	657.3	582.0	553.5	547.4
67.5°	7468.3	5771.2	824.2	498.6	466.0	622.7	722.4	630.8	545.4	521.0	502.6
70°	6949.4	5211.5	634.9	474.1	459.9	600.3	712.2	600.3	516.9	494.5	478.2
72.5°	5606.3	4179.8	527.1	449.7	435.5	555.5	677.6	571.8	494.5	470.1	453.8
75°	3575.4	2629.2	445.7	417.2	388.7	498.6	630.8	543.3	470.1	437.5	425.3
77.5°	1719.5	1133.5	388.7	378.5	350.0	461.9	584.0	506.7	437.5	411.1	402.9
80°	696.0	518.9	337.8	339.8	321.5	439.6	551.5	472.1	405.0	376.5	362.2
82.5°	362.2	301.2	284.9	293.0	293.0	419.2	527.1	443.6	376.5	364.3	317.5
85°	195.4	187.2	219.8	236.1	254.4	378.5	490.4	413.1	343.9	295.1	284.9
87.5°	95.6	122.1	124.1	142.4	177.0	303.2	413.1	345.9	286.9	238.1	234.0
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)