

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: P237304

Luminaire Tested: **ARCH-L-AF72-110-D-U-T4W-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-110-D-U-T4W-7030
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: 14822.1 lumens
Efficiency: N/A
Efficacy: 131.2 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

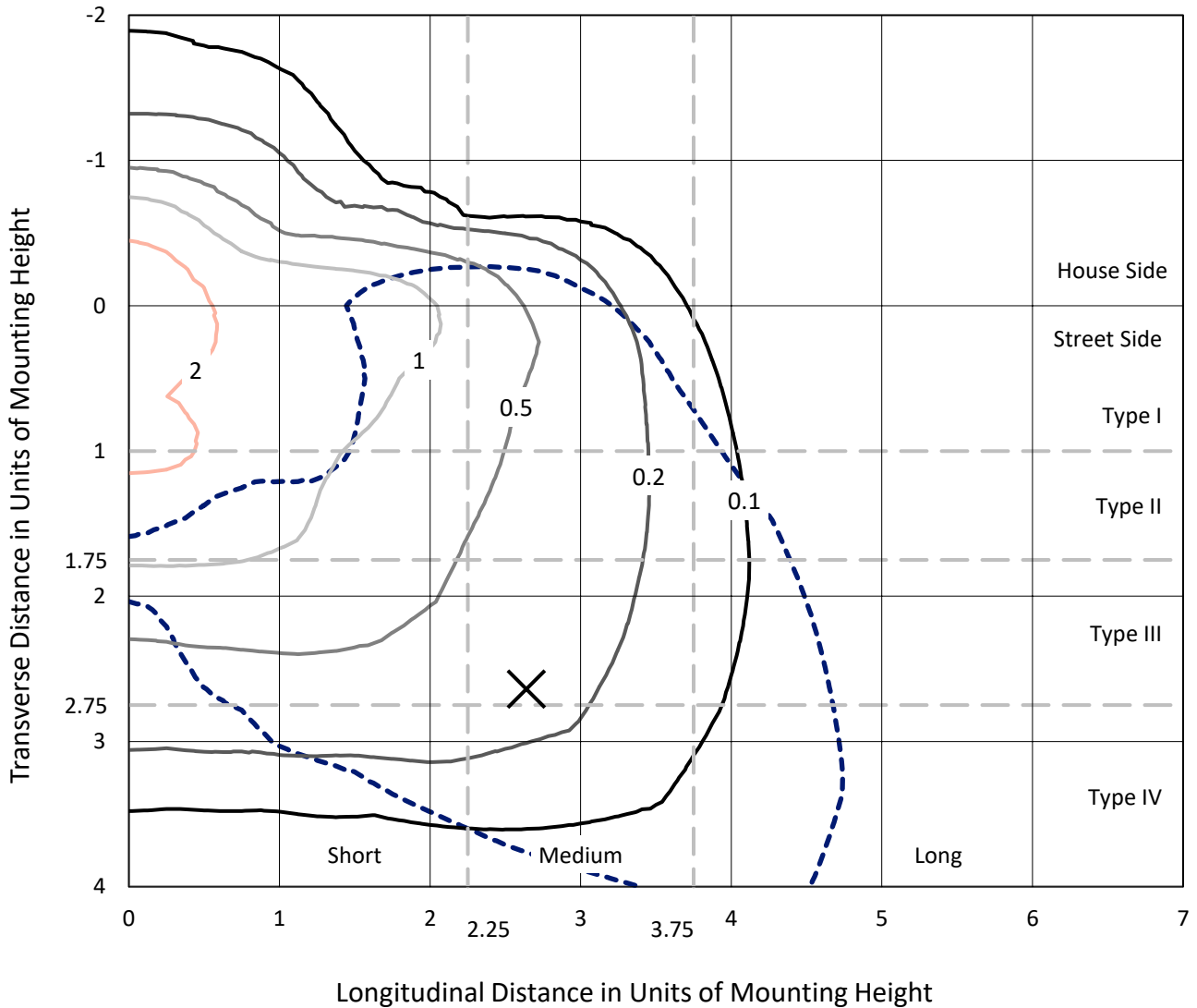
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

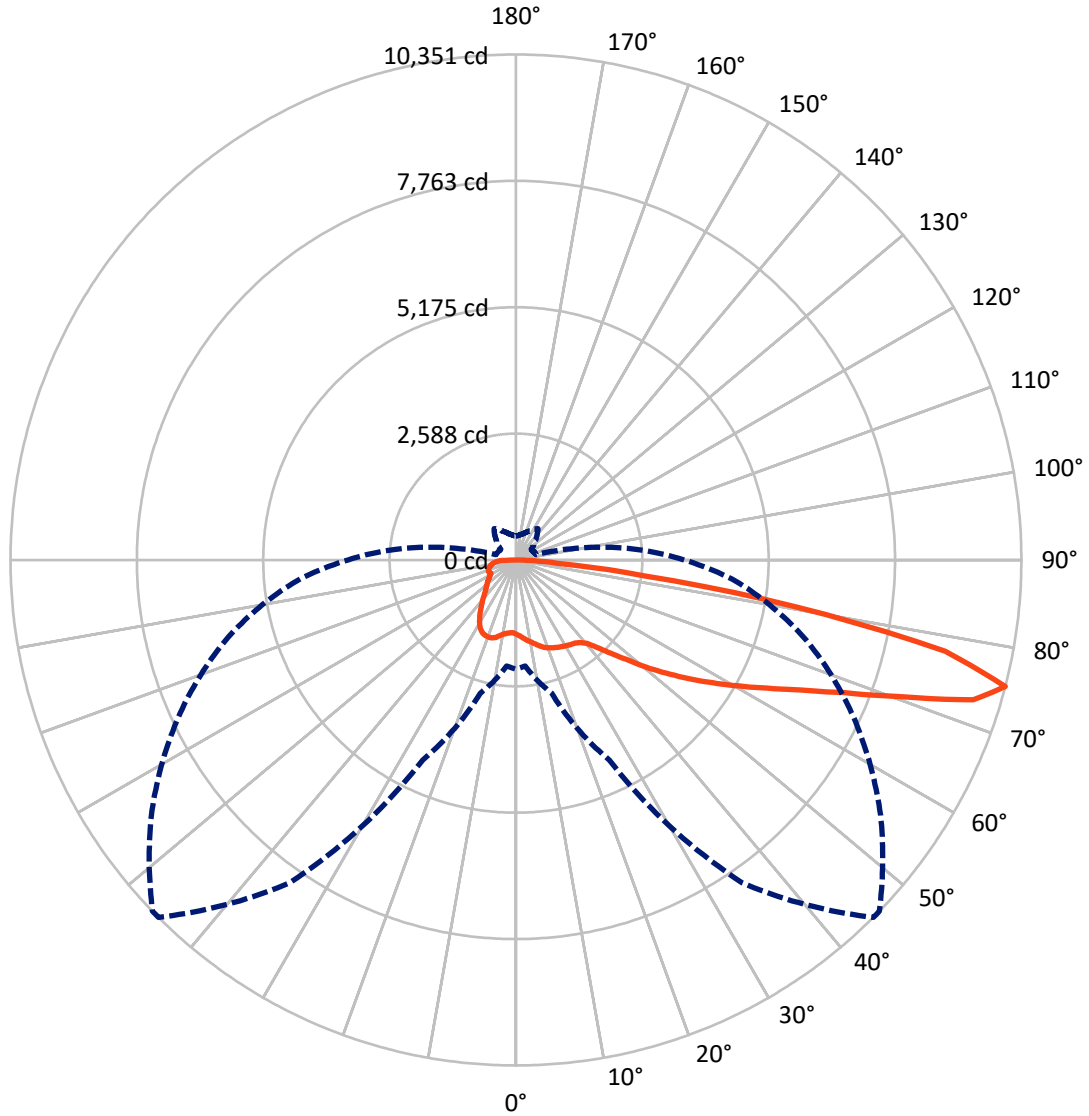
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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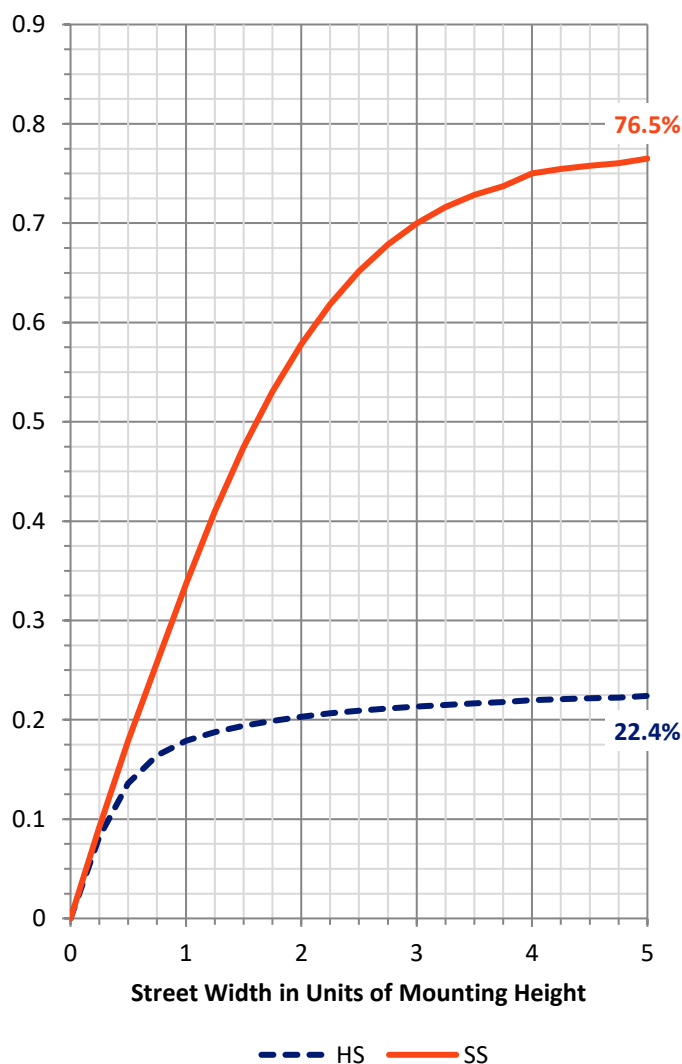
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3433.7	0.0	3433.7
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	11388.4	0.0	11388.4
	% Fixture	76.8	0.0	76.8
Total	Lumens	14822.1	0.0	14822.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.6	1.0
10°-20°	488.0	3.3
20°-30°	837.4	5.6
30°-40°	1171.1	7.9
40°-50°	1717.9	11.6
50°-60°	2676.1	18.1
60°-70°	3850.7	26.0
70°-80°	3354.3	22.6
80°-90°	576.1	3.9
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°	14822.1	100.0
0°-180°	14822.1	100.0

Coefficient of Utilization



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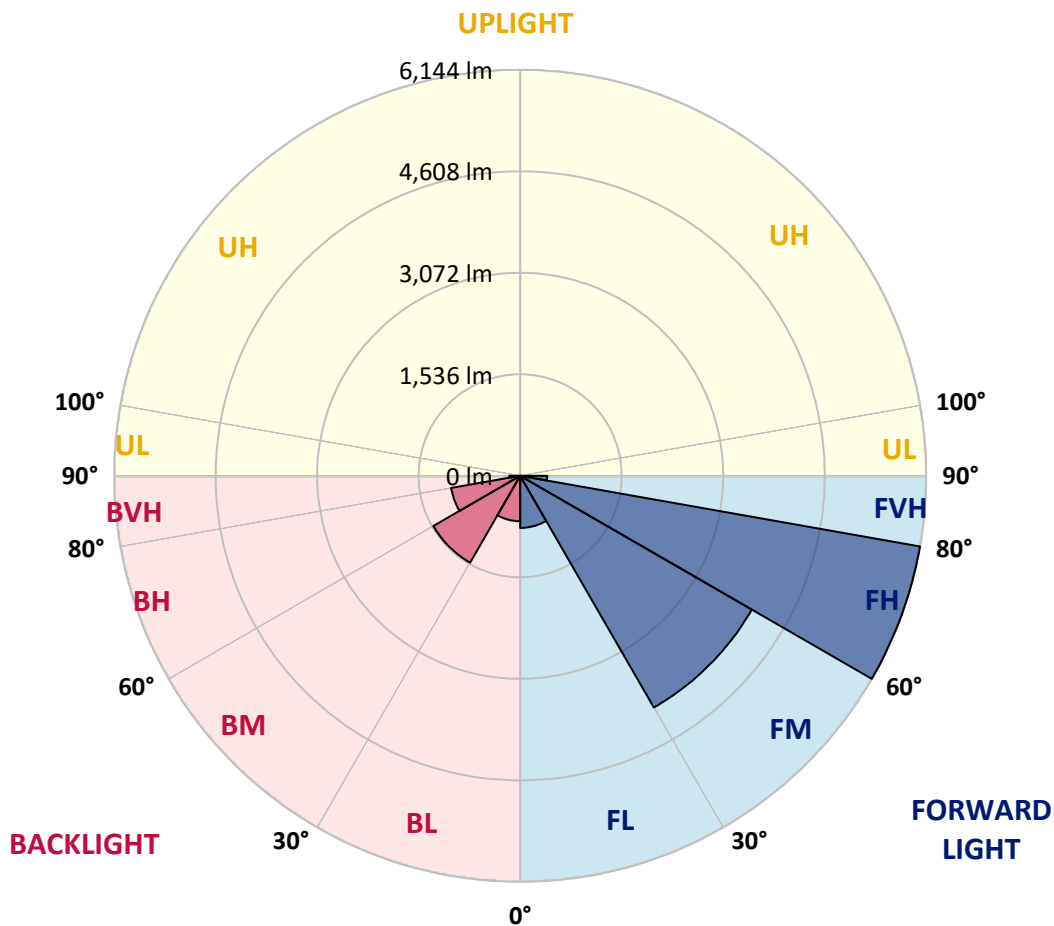
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	788.2	5.3			
FM (30°-60°)	4047.6	27.3			
FH (60°-80°)	6143.9	41.5			G3/7500
FVH (80°-90°)	408.7	2.8			G3/500
BL (0°-30°)	687.7	4.6	B2/1000		
BM (30°-60°)	1517.5	10.2	B2/2500		
BH (60°-80°)	1061.1	7.2	B3/2500		G3/2500
BVH (80°-90°)	167.4	1.1			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°	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5
2.5°	1594.4	1582.9	1582.9	1574.2	1574.2	1559.9	1554.1	1551.2	1536.7	1528.1	1519.5
5°	1686.8	1672.3	1669.4	1649.3	1640.5	1608.9	1606.0	1585.8	1559.9	1533.9	1513.7
7.5°	1770.3	1761.7	1747.3	1727.1	1701.1	1660.7	1657.9	1626.1	1582.9	1548.3	1519.5
10°	1830.8	1825.0	1805.0	1779.0	1750.2	1709.8	1706.8	1672.3	1620.5	1580.0	1539.7
12.5°	1903.0	1894.3	1868.4	1833.7	1802.0	1764.5	1761.7	1732.9	1675.2	1623.3	1571.3
15°	1972.1	1960.6	1928.9	1894.3	1859.7	1828.0	1828.0	1796.2	1735.7	1675.2	1614.7
17.5°	2006.8	2001.0	1969.3	1931.8	1903.0	1880.0	1877.0	1848.1	1787.6	1724.2	1657.9
20°	2018.2	2021.2	1992.4	1951.9	1931.8	1920.2	1917.4	1897.2	1830.8	1770.3	1706.8
22.5°	2015.4	2024.0	2001.0	1957.7	1951.9	1951.9	1951.9	1928.9	1877.0	1816.4	1753.1
25°	2027.0	2038.4	2021.2	1969.3	1969.3	1980.8	1980.8	1969.3	1923.2	1871.3	1807.8
27.5°	2067.3	2075.9	2061.5	1989.5	1992.4	2009.6	2006.8	2009.6	1980.8	1931.8	1868.4
30°	2116.4	2127.9	2110.6	2021.2	2018.2	2035.6	2035.6	2050.0	2029.8	1977.9	1926.0
32.5°	2249.0	2246.1	2191.3	2055.7	2047.1	2064.5	2064.5	2078.8	2067.3	2027.0	1977.9
35°	2644.0	2600.7	2479.6	2168.2	2081.7	2090.3	2090.3	2116.4	2122.1	2090.3	2047.1
37.5°	3047.6	3033.1	2940.9	2468.0	2208.5	2145.2	2142.2	2179.7	2205.7	2179.7	2150.9
40°	3454.1	3442.6	3422.4	2868.8	2473.8	2243.2	2234.6	2266.2	2312.4	2295.1	2277.7
42.5°	3831.8	3826.0	3846.3	3263.9	2811.1	2453.6	2427.7	2390.3	2456.5	2450.8	2450.8
45°	4128.8	4143.2	4154.8	3632.9	3177.4	2724.7	2692.9	2566.1	2655.4	2678.6	2695.9
47.5°	4296.1	4307.5	4348.0	3993.3	3543.5	3038.9	3015.9	2808.3	2926.5	2995.7	3044.7
50°	4535.4	4503.6	4538.3	4345.0	3984.6	3448.3	3385.0	3134.1	3284.0	3405.2	3520.5
52.5°	4766.0	4714.1	4743.0	4751.5	4486.3	3849.1	3782.9	3517.6	3705.0	3895.3	4100.0
55°	4973.6	4970.8	4999.6	5146.6	4970.8	4278.7	4203.8	3941.4	4212.5	4417.2	4763.1
57.5°	5140.8	5169.7	5296.6	5605.0	5530.0	4745.9	4662.2	4434.4	4754.5	4959.2	5533.0
60°	5336.9	5383.1	5593.5	5994.3	6040.4	5236.0	5149.5	4985.2	5311.0	5518.5	6423.9
62.5°	5403.2	5469.5	5902.0	6403.6	6573.8	5772.2	5694.5	5584.9	5896.2	6083.7	7311.9
65°	4962.1	5089.0	6072.2	6614.2	7147.6	6418.1	6351.8	6256.6	6478.6	6602.6	7914.5
67.5°	4840.9	4898.6	5740.6	6916.9	7686.7	7248.5	7182.1	7017.8	7023.6	6971.8	8110.7
70°	4670.9	4734.3	5400.3	7144.7	8459.5	8384.5	8303.8	7819.3	7522.4	7208.2	7724.2
72.5°	3978.9	3958.7	4653.6	6530.5	8831.4	9791.6	9696.4	8681.5	7891.5	7003.4	6519.1
75°	2234.6	2176.9	2822.7	4518.1	8064.4	10350.9	10348.1	9116.8	7632.0	6100.9	4437.3
77.5°	648.8	631.4	931.3	1894.3	5429.2	8992.9	9102.5	8223.1	6369.2	4382.5	2436.4
80°	305.6	311.4	400.8	625.6	2318.2	5804.0	6118.3	5414.8	3805.9	2021.2	1006.3
82.5°	193.2	196.0	273.9	403.6	980.3	2635.4	2894.9	2436.4	1508.0	873.6	444.0
85°	121.1	121.1	181.7	265.3	585.3	842.0	914.0	830.4	645.8	475.8	242.2
87.5°	66.3	66.3	109.6	152.9	320.0	271.1	279.7	331.6	403.6	291.1	121.1
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°	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5	1519.5
2.5°	1516.6	1510.8	1502.2	1499.2	1496.5	1493.6	1496.5	1502.2	1496.5	1496.5	1499.2
5°	1508.0	1502.2	1490.7	1490.7	1493.6	1496.5	1510.8	1519.5	1522.3	1522.3	1522.3
7.5°	1508.0	1499.2	1490.7	1493.6	1499.2	1510.8	1533.9	1548.3	1559.9	1562.7	1562.7
10°	1522.3	1510.8	1505.0	1510.8	1528.1	1536.7	1559.9	1582.9	1597.4	1603.1	1603.1
12.5°	1548.3	1536.7	1536.7	1548.3	1571.3	1582.9	1603.1	1620.5	1637.7	1646.3	1646.3
15°	1591.6	1577.1	1580.0	1600.2	1626.1	1637.7	1652.1	1657.9	1672.3	1683.8	1683.8
17.5°	1631.9	1617.5	1623.3	1646.3	1663.7	1669.4	1678.0	1675.2	1681.0	1689.5	1692.4
20°	1678.0	1663.7	1666.5	1681.0	1683.8	1678.0	1678.0	1669.4	1666.5	1681.0	1686.8
22.5°	1724.2	1709.8	1706.8	1698.2	1683.8	1669.4	1660.7	1652.1	1646.3	1660.7	1666.5
25°	1779.0	1758.7	1744.4	1706.8	1669.4	1643.5	1631.9	1626.1	1623.3	1637.7	1643.5
27.5°	1839.5	1819.3	1776.1	1695.3	1634.8	1591.6	1582.9	1582.9	1588.6	1597.4	1603.1
30°	1897.2	1877.0	1799.2	1669.4	1574.2	1510.8	1502.2	1510.8	1525.3	1533.9	1542.5
32.5°	1954.8	1934.7	1813.6	1629.0	1484.9	1404.2	1398.4	1412.8	1435.8	1441.6	1447.3
35°	2032.7	2012.5	1830.8	1571.3	1372.4	1286.0	1280.2	1288.8	1309.0	1317.6	1326.3
37.5°	2142.2	2130.8	1856.9	1508.0	1268.6	1173.5	1156.2	1150.4	1162.0	1159.0	1170.6
40°	2286.5	2295.1	1903.0	1424.3	1167.8	1069.6	1032.2	1014.9	1003.3	980.3	991.8
42.5°	2496.9	2502.7	1954.8	1329.1	1081.2	971.7	922.7	890.9	867.8	830.4	836.2
45°	2805.4	2756.4	2015.4	1228.3	1003.3	893.8	836.2	798.6	767.0	735.2	738.1
47.5°	3214.9	3064.9	2081.7	1144.6	925.5	830.4	778.5	735.2	697.7	671.8	674.6
50°	3719.4	3448.3	2148.0	1066.8	847.7	781.3	735.2	689.1	651.6	625.6	622.8
52.5°	4385.4	3909.8	2191.3	980.3	769.8	738.1	697.7	654.5	608.3	576.7	573.7
55°	5077.4	4446.0	2228.8	876.5	694.9	689.1	668.8	619.9	565.1	524.8	519.0
57.5°	5838.6	5019.7	2257.7	775.6	637.2	648.8	643.0	585.3	524.8	487.3	484.3
60°	6530.5	5613.7	2165.3	686.2	585.3	608.3	614.1	565.1	533.4	542.0	544.9
62.5°	7228.4	6072.2	1813.6	619.9	550.6	582.5	631.4	628.6	614.1	628.6	631.4
65°	7479.2	6167.2	1286.0	565.1	516.1	594.0	686.2	680.4	614.1	588.2	582.5
67.5°	7337.9	5884.7	865.0	521.8	490.1	608.3	743.8	680.4	591.1	556.4	544.9
70°	6666.1	5189.9	634.4	478.7	467.1	605.6	775.6	677.5	579.5	542.0	527.6
72.5°	5316.8	4004.9	510.4	438.2	432.4	591.1	792.9	671.8	568.0	527.6	510.4
75°	3442.6	2491.1	429.6	397.9	380.6	568.0	784.3	654.5	553.6	501.7	490.1
77.5°	1597.4	1072.6	366.1	351.7	331.6	533.4	758.3	619.9	521.8	472.9	458.5
80°	743.8	507.4	308.5	305.6	296.9	504.6	723.8	579.5	484.3	444.0	420.9
82.5°	397.9	305.6	250.9	250.9	259.5	470.0	680.4	530.6	435.4	415.1	354.6
85°	210.5	175.9	181.7	196.0	222.1	415.1	622.8	478.7	380.6	317.2	308.5
87.5°	106.6	112.4	112.4	132.6	170.1	337.4	513.2	395.0	323.0	259.5	253.7
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)