

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: P237343

Luminaire Tested: **ARCH-L-AF72-100-D-U-T4W-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-100-D-U-T4W-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 14021 lumens
Efficiency: N/A
Efficacy: 137.5 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

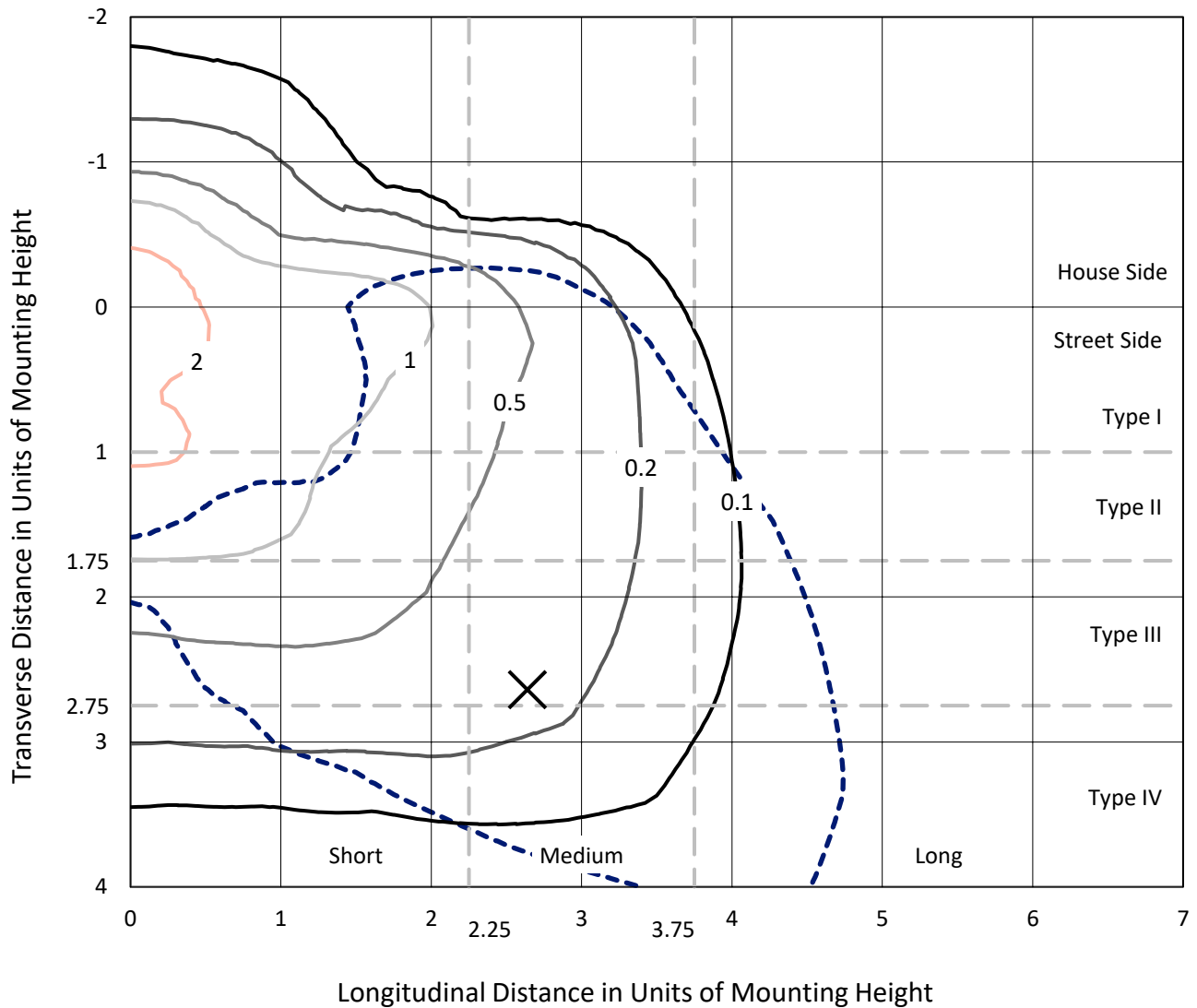
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

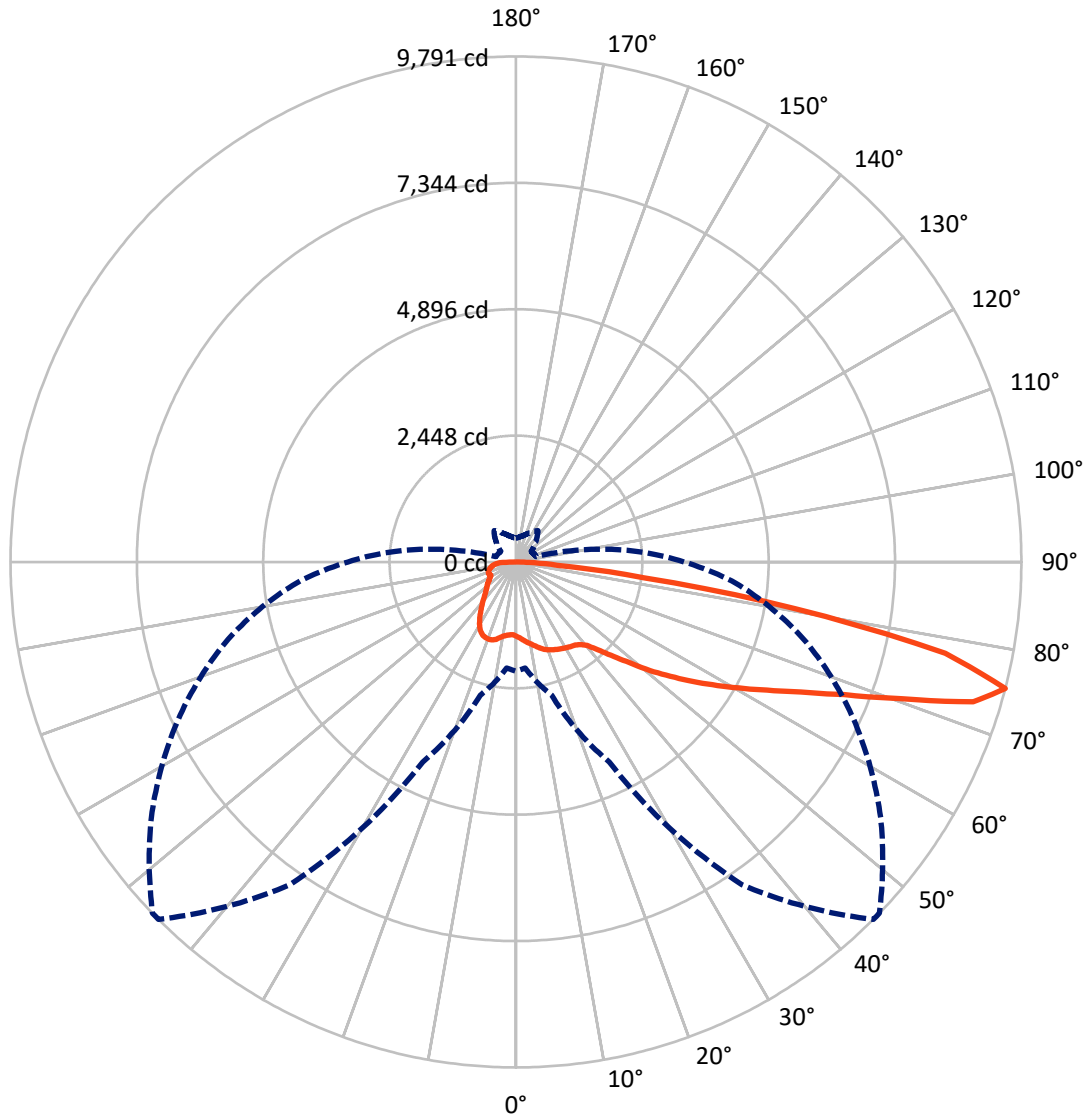
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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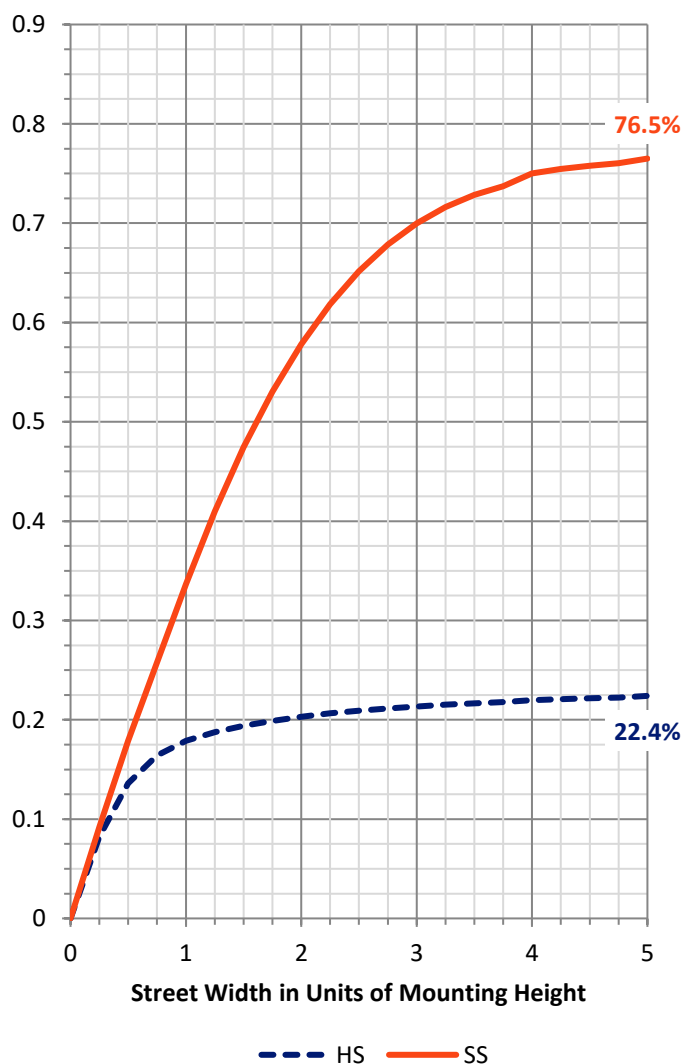
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3248.1	0.0	3248.1
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	10772.9	0.0	10772.9
	% Fixture	76.8	0.0	76.8
Total	Lumens	14021.0	0.0	14021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	1.0
10°-20°	461.6	3.3
20°-30°	792.1	5.6
30°-40°	1107.8	7.9
40°-50°	1625.1	11.6
50°-60°	2531.4	18.1
60°-70°	3642.5	26.0
70°-80°	3173.1	22.6
80°-90°	544.9	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°	14021.0	100.0
0°-180°	14021.0	100.0

Coefficient of Utilization



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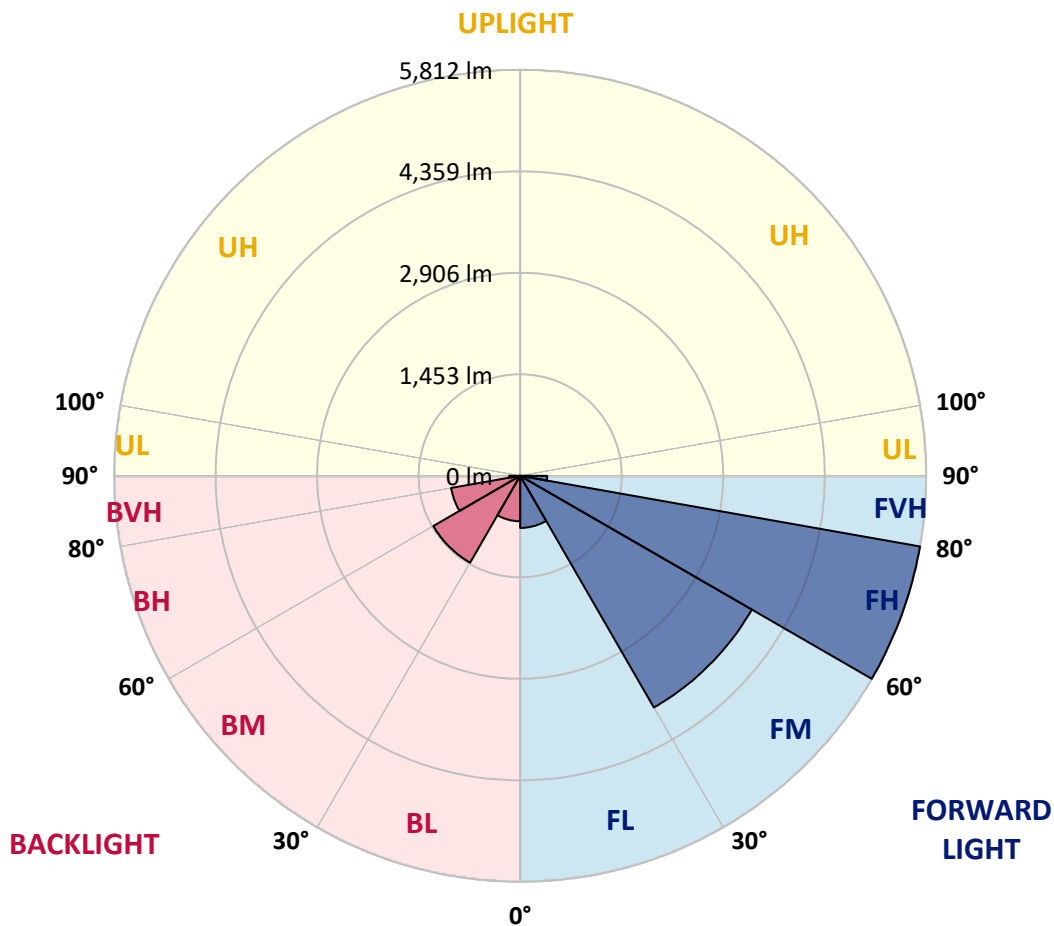
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	745.6	5.3			
FM (30°-60°)	3828.9	27.3			
FH (60°-80°)	5811.8	41.5			G3/7500
FVH (80°-90°)	386.6	2.8			G3/500
BL (0°-30°)	650.5	4.6	B2/1000		
BM (30°-60°)	1435.5	10.2	B2/2500		
BH (60°-80°)	1003.8	7.2	B3/2500		G3/2500
BVH (80°-90°)	158.3	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°	1437.4	1437.4	1437.4	1437.4	1437.4	1437.4	1437.4	1437.4	1437.4	1437.4	1437.4
2.5°	1508.3	1497.4	1497.4	1489.2	1489.2	1475.5	1470.1	1467.4	1453.7	1445.5	1437.4
5°	1595.5	1581.9	1579.2	1560.1	1551.9	1521.9	1519.2	1500.1	1475.5	1451.0	1431.9
7.5°	1674.6	1666.5	1652.8	1633.7	1609.2	1571.0	1568.3	1538.3	1497.4	1464.6	1437.4
10°	1731.9	1726.5	1707.4	1682.8	1655.5	1617.4	1614.6	1581.9	1532.8	1494.6	1456.4
12.5°	1800.1	1791.9	1767.4	1734.6	1704.6	1669.2	1666.5	1639.2	1584.6	1535.5	1486.4
15°	1865.6	1854.6	1824.6	1791.9	1759.2	1729.2	1729.2	1699.2	1641.9	1584.6	1527.4
17.5°	1898.3	1892.8	1862.8	1827.4	1800.1	1778.3	1775.6	1748.3	1691.0	1631.0	1568.3
20°	1909.2	1911.9	1884.6	1846.5	1827.4	1816.5	1813.7	1794.6	1731.9	1674.6	1614.6
22.5°	1906.5	1914.7	1892.8	1851.9	1846.5	1846.5	1846.5	1824.6	1775.6	1718.3	1658.3
25°	1917.4	1928.3	1911.9	1862.8	1862.8	1873.7	1873.7	1862.8	1819.2	1770.1	1710.1
27.5°	1955.6	1963.7	1950.1	1881.9	1884.6	1901.0	1898.3	1901.0	1873.7	1827.4	1767.4
30°	2001.9	2012.8	1996.5	1911.9	1909.2	1925.6	1925.6	1939.2	1920.1	1871.0	1821.9
32.5°	2127.4	2124.7	2072.8	1944.7	1936.5	1952.8	1952.8	1966.5	1955.6	1917.4	1871.0
35°	2501.0	2460.1	2345.6	2051.0	1969.2	1977.4	1977.4	2001.9	2007.4	1977.4	1936.5
37.5°	2882.9	2869.2	2782.0	2334.7	2089.2	2029.2	2026.5	2061.9	2086.5	2061.9	2034.7
40°	3267.5	3256.5	3237.5	2713.8	2340.1	2121.9	2113.8	2143.8	2187.4	2171.0	2154.7
42.5°	3624.7	3619.3	3638.4	3087.4	2659.2	2321.0	2296.5	2261.0	2323.8	2318.3	2318.3
45°	3905.7	3919.3	3930.2	3436.6	3005.6	2577.4	2547.4	2427.4	2512.0	2533.8	2550.1
47.5°	4063.9	4074.8	4113.0	3777.5	3352.0	2874.7	2852.9	2656.5	2768.3	2833.8	2880.2
50°	4290.2	4260.2	4293.0	4110.2	3769.3	3262.0	3202.0	2964.7	3106.5	3221.1	3330.2
52.5°	4508.4	4459.3	4486.6	4494.8	4243.9	3641.1	3578.4	3327.5	3504.7	3684.7	3878.4
55°	4704.8	4702.1	4729.3	4868.4	4702.1	4047.5	3976.6	3728.4	3984.8	4178.4	4505.7
57.5°	4863.0	4890.3	5010.3	5302.1	5231.2	4489.3	4410.2	4194.8	4497.5	4691.2	5233.9
60°	5048.5	5092.1	5291.2	5670.3	5713.9	4953.0	4871.2	4715.7	5023.9	5220.3	6076.7
62.5°	5111.2	5173.9	5583.0	6057.6	6218.5	5460.3	5386.7	5283.0	5577.6	5754.9	6916.7
65°	4693.9	4813.9	5744.0	6256.7	6761.3	6071.2	6008.5	5918.5	6128.5	6245.8	7486.8
67.5°	4579.3	4633.9	5430.3	6543.1	7271.3	6856.7	6794.0	6638.5	6644.0	6594.9	7672.2
70°	4418.4	4478.4	5108.5	6758.6	8002.3	7931.3	7855.0	7396.8	7115.8	6818.6	7306.8
72.5°	3763.8	3744.8	4402.1	6177.6	8354.1	9262.3	9172.3	8212.3	7465.0	6624.9	6166.7
75°	2113.8	2059.2	2670.1	4273.9	7628.6	9791.4	9788.7	8624.1	7219.5	5771.2	4197.5
77.5°	613.7	597.3	881.0	1791.9	5135.7	8506.8	8610.5	7778.6	6024.9	4145.7	2304.7
80°	289.1	294.6	379.1	591.9	2192.8	5490.3	5787.6	5122.1	3600.2	1911.9	951.9
82.5°	182.7	185.5	259.1	381.8	927.3	2492.9	2738.3	2304.7	1426.4	826.4	420.0
85°	114.6	114.6	171.8	250.9	553.7	796.4	864.6	785.5	610.9	450.0	229.1
87.5°	62.7	62.7	103.6	144.6	302.7	256.4	264.6	313.7	381.8	275.5	114.6
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°	1437.4	1437.4	1437.4	1437.4	1437.4	1437.4	1437.4	1437.4	1437.4	1437.4	1437.4
2.5°	1434.6	1429.2	1421.0	1418.3	1415.5	1412.8	1415.5	1421.0	1415.5	1415.5	1418.3
5°	1426.4	1421.0	1410.1	1410.1	1412.8	1415.5	1429.2	1437.4	1440.1	1440.1	1440.1
7.5°	1426.4	1418.3	1410.1	1412.8	1418.3	1429.2	1451.0	1464.6	1475.5	1478.3	1478.3
10°	1440.1	1429.2	1423.7	1429.2	1445.5	1453.7	1475.5	1497.4	1511.0	1516.4	1516.4
12.5°	1464.6	1453.7	1453.7	1464.6	1486.4	1497.4	1516.4	1532.8	1549.2	1557.4	1557.4
15°	1505.5	1491.9	1494.6	1513.7	1538.3	1549.2	1562.8	1568.3	1581.9	1592.8	1592.8
17.5°	1543.7	1530.1	1535.5	1557.4	1573.7	1579.2	1587.4	1584.6	1590.1	1598.3	1601.0
20°	1587.4	1573.7	1576.4	1590.1	1592.8	1587.4	1587.4	1579.2	1576.4	1590.1	1595.5
22.5°	1631.0	1617.4	1614.6	1606.5	1592.8	1579.2	1571.0	1562.8	1557.4	1571.0	1576.4
25°	1682.8	1663.7	1650.1	1614.6	1579.2	1554.6	1543.7	1538.3	1535.5	1549.2	1554.6
27.5°	1740.1	1721.0	1680.1	1603.7	1546.4	1505.5	1497.4	1497.4	1502.8	1511.0	1516.4
30°	1794.6	1775.6	1701.9	1579.2	1489.2	1429.2	1421.0	1429.2	1442.8	1451.0	1459.2
32.5°	1849.2	1830.1	1715.5	1541.0	1404.6	1328.3	1322.8	1336.4	1358.3	1363.7	1369.2
35°	1922.8	1903.7	1731.9	1486.4	1298.3	1216.4	1211.0	1219.2	1238.2	1246.4	1254.6
37.5°	2026.5	2015.6	1756.5	1426.4	1200.1	1110.1	1093.7	1088.2	1099.2	1096.4	1107.3
40°	2162.8	2171.0	1800.1	1347.3	1104.6	1011.9	976.4	960.1	949.1	927.3	938.2
42.5°	2361.9	2367.4	1849.2	1257.3	1022.8	919.1	872.8	842.8	821.0	785.5	791.0
45°	2653.8	2607.4	1906.5	1161.9	949.1	845.5	791.0	755.5	725.5	695.5	698.2
47.5°	3041.1	2899.2	1969.2	1082.8	875.5	785.5	736.4	695.5	660.0	635.5	638.2
50°	3518.4	3262.0	2031.9	1009.1	801.9	739.1	695.5	651.9	616.4	591.9	589.1
52.5°	4148.4	3698.4	2072.8	927.3	728.2	698.2	660.0	619.1	575.5	545.5	542.8
55°	4803.0	4205.7	2108.3	829.1	657.3	651.9	632.8	586.4	534.6	496.4	490.9
57.5°	5523.0	4748.4	2135.6	733.7	602.8	613.7	608.2	553.7	496.4	460.9	458.2
60°	6177.6	5310.3	2048.3	649.1	553.7	575.5	580.9	534.6	504.6	512.8	515.5
62.5°	6837.6	5744.0	1715.5	586.4	520.9	550.9	597.3	594.6	580.9	594.6	597.3
65°	7074.9	5834.0	1216.4	534.6	488.2	561.8	649.1	643.7	580.9	556.4	550.9
67.5°	6941.3	5566.7	818.2	493.7	463.7	575.5	703.7	643.7	559.1	526.4	515.5
70°	6305.8	4909.4	600.0	452.8	441.8	572.8	733.7	640.9	548.2	512.8	499.1
72.5°	5029.4	3788.4	482.8	414.6	409.1	559.1	750.0	635.5	537.3	499.1	482.8
75°	3256.5	2356.5	406.4	376.4	360.0	537.3	741.9	619.1	523.7	474.6	463.7
77.5°	1511.0	1014.6	346.4	332.7	313.7	504.6	717.3	586.4	493.7	447.3	433.7
80°	703.7	480.0	291.8	289.1	280.9	477.3	684.6	548.2	458.2	420.0	398.2
82.5°	376.4	289.1	237.3	237.3	245.5	444.6	643.7	501.8	411.8	392.7	335.5
85°	199.1	166.4	171.8	185.5	210.0	392.7	589.1	452.8	360.0	300.0	291.8
87.5°	100.9	106.4	106.4	125.5	160.9	319.1	485.5	373.7	305.5	245.5	240.0
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)