

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: P237344

Luminaire Tested: **ARCH-L-AF72-110-D-U-T4W-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237344
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-AF72-110-D-U-T4W-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 15326 lumens
Efficiency: N/A
Efficacy: 135.6 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

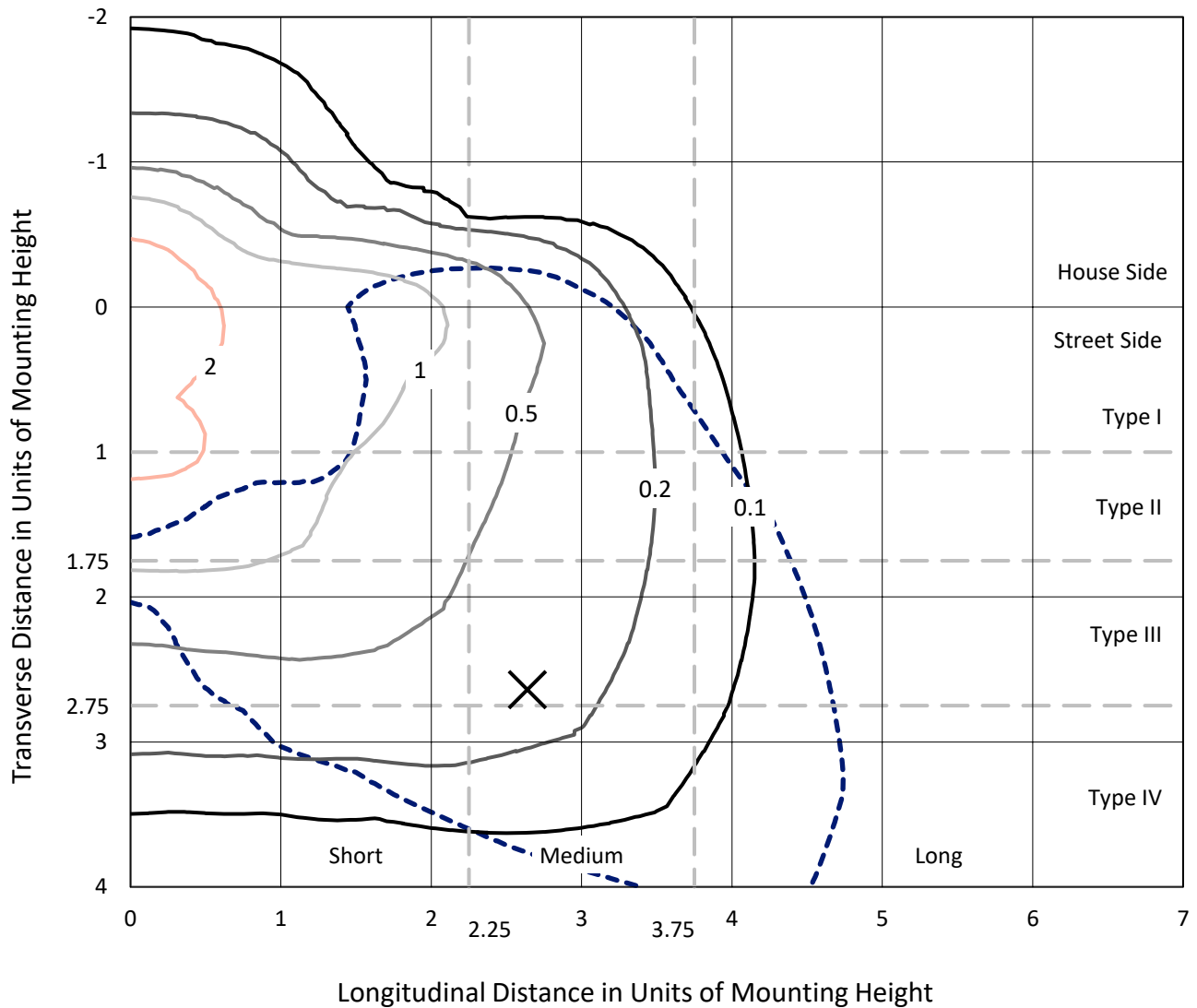
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P237344
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T4W-7050

Iso-Footcandle Lines of Horizontal Illumination

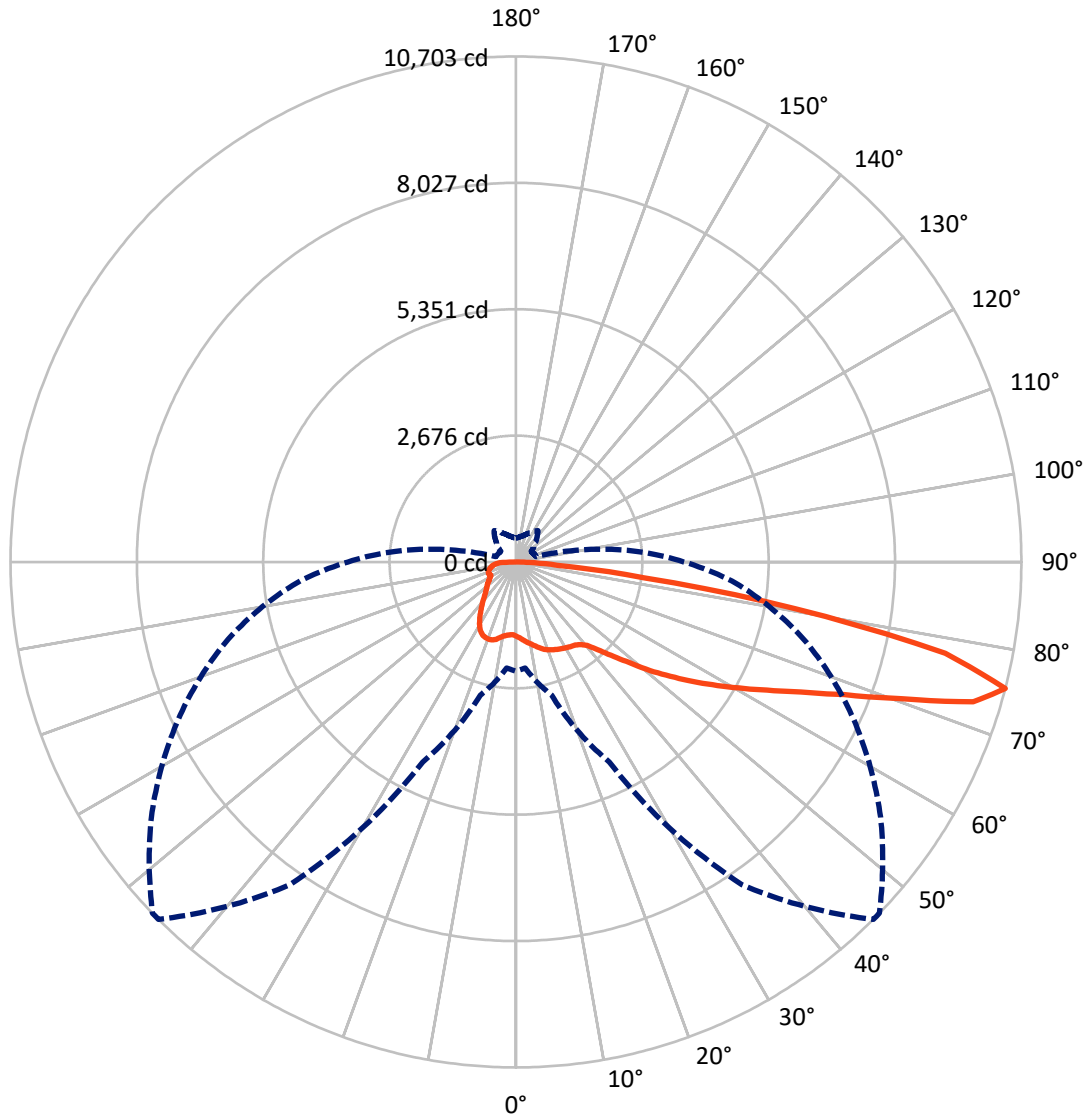
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type IV - Medium - N/A

REPORT NUMBER: P237344
CATALOG NUMBER: ARCH-L-AF72-110-D-U-T4W-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P237344
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T4W-7050

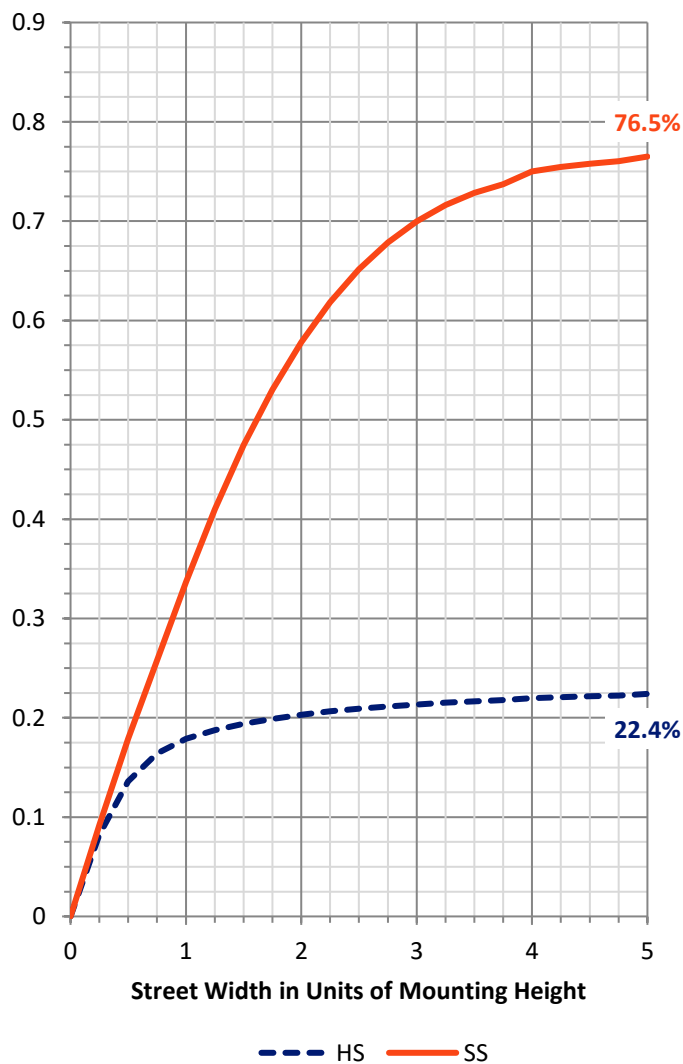
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3550.4	0.0	3550.4
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	11775.6	0.0	11775.6
	% Fixture	76.8	0.0	76.8
Total	Lumens	15326.0	0.0	15326.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.7	1.0
10°-20°	504.5	3.3
20°-30°	865.8	5.6
30°-40°	1210.9	7.9
40°-50°	1776.3	11.6
50°-60°	2767.1	18.1
60°-70°	3981.6	26.0
70°-80°	3468.4	22.6
80°-90°	595.7	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°	15326.0	100.0
0°-180°	15326.0	100.0

Coefficient of Utilization



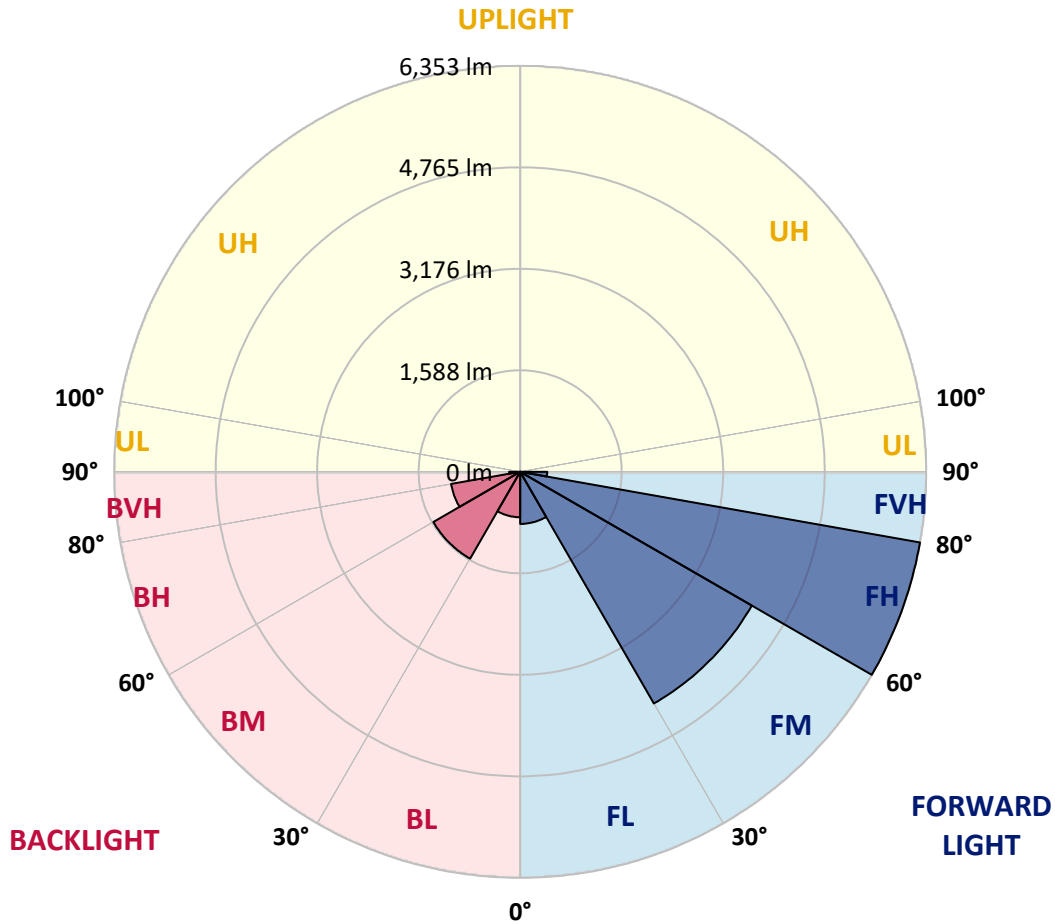
REPORT NUMBER: P237344
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T4W-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	815.0	5.3			
FM (30°-60°)	4185.2	27.3			
FH (60°-80°)	6352.8	41.5			G3/7500
FVH (80°-90°)	422.6	2.8			G3/500
BL (0°-30°)	711.1	4.6	B2/1000		
BM (30°-60°)	1569.1	10.2	B2/2500		
BH (60°-80°)	1097.2	7.2	B3/2500		G3/2500
BVH (80°-90°)	173.0	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





REPORT NUMBER: P237344

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T4W-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1648.6	1636.7	1636.7	1627.8	1627.8	1612.9	1606.9	1603.9	1589.0	1580.1	1571.1
5°	1744.0	1729.1	1726.2	1705.3	1696.3	1663.6	1660.6	1639.7	1612.9	1586.0	1565.2
7.5°	1830.5	1821.6	1806.7	1785.8	1759.0	1717.2	1714.2	1681.4	1636.7	1600.9	1571.1
10°	1893.1	1887.1	1866.3	1839.4	1809.6	1767.9	1764.9	1729.1	1675.5	1633.7	1592.0
12.5°	1967.6	1958.7	1931.9	1896.1	1863.3	1824.5	1821.6	1791.7	1732.1	1678.5	1624.8
15°	2039.2	2027.3	1994.5	1958.7	1922.9	1890.1	1890.1	1857.3	1794.7	1732.1	1669.5
17.5°	2075.0	2069.0	2036.2	1997.5	1967.6	1943.8	1940.8	1911.0	1848.4	1782.8	1714.2
20°	2086.9	2089.9	2060.1	2018.3	1997.5	1985.5	1982.5	1961.7	1893.1	1830.5	1764.9
22.5°	2083.9	2092.9	2069.0	2024.3	2018.3	2018.3	2018.3	1994.5	1940.8	1878.2	1812.6
25°	2095.8	2107.8	2089.9	2036.2	2036.2	2048.1	2048.1	2036.2	1988.5	1934.8	1869.3
27.5°	2137.6	2146.5	2131.6	2057.1	2060.1	2077.9	2075.0	2077.9	2048.1	1997.5	1931.9
30°	2188.3	2200.2	2182.3	2089.9	2086.9	2104.8	2104.8	2119.7	2098.8	2045.2	1991.5
32.5°	2325.4	2322.4	2265.8	2125.6	2116.7	2134.6	2134.6	2149.5	2137.6	2095.8	2045.2
35°	2733.8	2689.1	2563.9	2241.9	2152.5	2161.4	2161.4	2188.3	2194.2	2161.4	2116.7
37.5°	3151.2	3136.3	3040.9	2552.0	2283.7	2218.1	2215.1	2253.8	2280.7	2253.8	2224.0
40°	3571.6	3559.6	3538.8	2966.4	2557.9	2319.4	2310.5	2343.3	2391.0	2373.1	2355.2
42.5°	3962.1	3956.2	3977.0	3374.8	2906.7	2537.1	2510.2	2471.5	2540.0	2534.1	2534.1
45°	4269.2	4284.1	4296.0	3756.4	3285.4	2817.3	2784.5	2653.3	2745.8	2769.6	2787.5
47.5°	4442.1	4454.0	4495.8	4129.1	3664.0	3142.3	3118.4	2903.8	3026.0	3097.5	3148.2
50°	4689.5	4656.8	4692.5	4492.8	4120.1	3565.6	3500.0	3240.6	3395.7	3520.9	3640.1
52.5°	4928.0	4874.4	4904.2	4913.1	4638.9	3980.0	3911.4	3637.2	3830.9	4027.7	4239.4
55°	5142.7	5139.7	5169.5	5321.6	5139.7	4424.2	4346.7	4075.4	4355.6	4567.3	4925.1
57.5°	5315.6	5345.4	5476.6	5795.6	5718.1	4907.2	4820.7	4585.2	4916.1	5127.8	5721.1
60°	5518.3	5566.0	5783.7	6198.1	6245.8	5414.0	5324.6	5154.6	5491.5	5706.2	6642.3
62.5°	5586.9	5655.5	6102.7	6621.4	6797.3	5968.5	5888.0	5774.7	6096.7	6290.5	7560.5
65°	5130.8	5262.0	6278.6	6839.0	7390.6	6636.3	6567.8	6469.4	6698.9	6827.1	8183.6
67.5°	5005.6	5065.2	5935.7	7152.1	7948.1	7494.9	7426.4	7256.4	7262.4	7208.7	8386.3
70°	4829.7	4895.3	5583.9	7387.6	8747.1	8669.6	8586.1	8085.2	7778.1	7453.2	7986.8
72.5°	4114.2	4093.3	4811.8	6752.6	9131.6	10124.4	10026.0	8976.6	8159.8	7241.5	6740.7
75°	2310.5	2250.9	2918.7	4671.7	8338.6	10702.8	10699.8	9426.8	7891.4	6308.4	4588.2
77.5°	670.8	652.9	963.0	1958.7	5613.7	9298.6	9411.9	8502.6	6585.6	4531.5	2519.2
80°	316.0	322.0	414.4	646.9	2396.9	6001.3	6326.3	5598.8	3935.3	2089.9	1040.5
82.5°	199.7	202.7	283.2	417.4	1013.6	2724.9	2993.2	2519.2	1559.2	903.3	459.1
85°	125.2	125.2	187.8	274.3	605.2	870.5	945.1	858.6	667.8	491.9	250.4
87.5°	68.6	68.6	113.3	158.0	330.9	280.2	289.2	342.8	417.4	301.1	125.2
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: P237344

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T4W-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1	1571.1
2.5°	1568.2	1562.2	1553.2	1550.3	1547.3	1544.3	1547.3	1553.2	1547.3	1547.3	1550.3
5°	1559.2	1553.2	1541.3	1541.3	1544.3	1547.3	1562.2	1571.1	1574.1	1574.1	1574.1
7.5°	1559.2	1550.3	1541.3	1544.3	1550.3	1562.2	1586.0	1600.9	1612.9	1615.9	1615.9
10°	1574.1	1562.2	1556.2	1562.2	1580.1	1589.0	1612.9	1636.7	1651.6	1657.6	1657.6
12.5°	1600.9	1589.0	1589.0	1600.9	1624.8	1636.7	1657.6	1675.5	1693.4	1702.3	1702.3
15°	1645.7	1630.8	1633.7	1654.6	1681.4	1693.4	1708.3	1714.2	1729.1	1741.1	1741.1
17.5°	1687.4	1672.5	1678.5	1702.3	1720.2	1726.2	1735.1	1732.1	1738.1	1747.0	1750.0
20°	1735.1	1720.2	1723.2	1738.1	1741.1	1735.1	1735.1	1726.2	1723.2	1738.1	1744.0
22.5°	1782.8	1767.9	1764.9	1756.0	1741.1	1726.2	1717.2	1708.3	1702.3	1717.2	1723.2
25°	1839.4	1818.6	1803.7	1764.9	1726.2	1699.3	1687.4	1681.4	1678.5	1693.4	1699.3
27.5°	1902.1	1881.2	1836.5	1753.0	1690.4	1645.7	1636.7	1636.7	1642.7	1651.6	1657.6
30°	1961.7	1940.8	1860.3	1726.2	1627.8	1562.2	1553.2	1562.2	1577.1	1586.0	1595.0
32.5°	2021.3	2000.4	1875.2	1684.4	1535.4	1451.9	1445.9	1460.8	1484.7	1490.6	1496.6
35°	2101.8	2080.9	1893.1	1624.8	1419.1	1329.6	1323.7	1332.6	1353.5	1362.4	1371.4
37.5°	2215.1	2203.2	1919.9	1559.2	1311.8	1213.4	1195.5	1189.5	1201.5	1198.5	1210.4
40°	2364.2	2373.1	1967.6	1472.8	1207.4	1106.1	1067.3	1049.4	1037.5	1013.6	1025.6
42.5°	2581.8	2587.7	2021.3	1374.4	1118.0	1004.7	954.0	921.2	897.4	858.6	864.6
45°	2900.8	2850.1	2083.9	1270.0	1037.5	924.2	864.6	825.8	793.0	760.2	763.2
47.5°	3324.1	3169.1	2152.5	1183.6	957.0	858.6	804.9	760.2	721.5	694.6	697.6
50°	3845.8	3565.6	2221.1	1103.1	876.5	807.9	760.2	712.5	673.8	646.9	644.0
52.5°	4534.5	4042.6	2265.8	1013.6	796.0	763.2	721.5	676.7	629.0	596.3	593.3
55°	5250.0	4597.1	2304.5	906.3	718.5	712.5	691.7	641.0	584.3	542.6	536.6
57.5°	6037.1	5190.4	2334.3	802.0	658.9	670.8	664.8	605.2	542.6	503.8	500.9
60°	6752.6	5804.5	2238.9	709.5	605.2	629.0	635.0	584.3	551.5	560.5	563.5
62.5°	7474.1	6278.6	1875.2	641.0	569.4	602.2	652.9	649.9	635.0	649.9	652.9
65°	7733.4	6376.9	1329.6	584.3	533.6	614.1	709.5	703.6	635.0	608.2	602.2
67.5°	7587.3	6084.8	894.4	539.6	506.8	629.0	769.2	703.6	611.2	575.4	563.5
70°	6892.7	5366.3	655.9	494.9	483.0	626.1	802.0	700.6	599.2	560.5	545.6
72.5°	5497.5	4141.0	527.7	453.2	447.2	611.2	819.9	694.6	587.3	545.6	527.7
75°	3559.6	2575.8	444.2	411.4	393.5	587.3	810.9	676.7	572.4	518.7	506.8
77.5°	1651.6	1109.0	378.6	363.7	342.8	551.5	784.1	641.0	539.6	488.9	474.0
80°	769.2	524.7	319.0	316.0	307.1	521.7	748.3	599.2	500.9	459.1	435.3
82.5°	411.4	316.0	259.4	259.4	268.3	485.9	703.6	548.6	450.2	429.3	366.7
85°	217.6	181.9	187.8	202.7	229.6	429.3	644.0	494.9	393.5	327.9	319.0
87.5°	110.3	116.3	116.3	137.1	175.9	348.8	530.7	408.4	333.9	268.3	262.4
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)