

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: P237062

Luminaire Tested: **ARCH-L-AF72-90-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-90-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12645.7 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

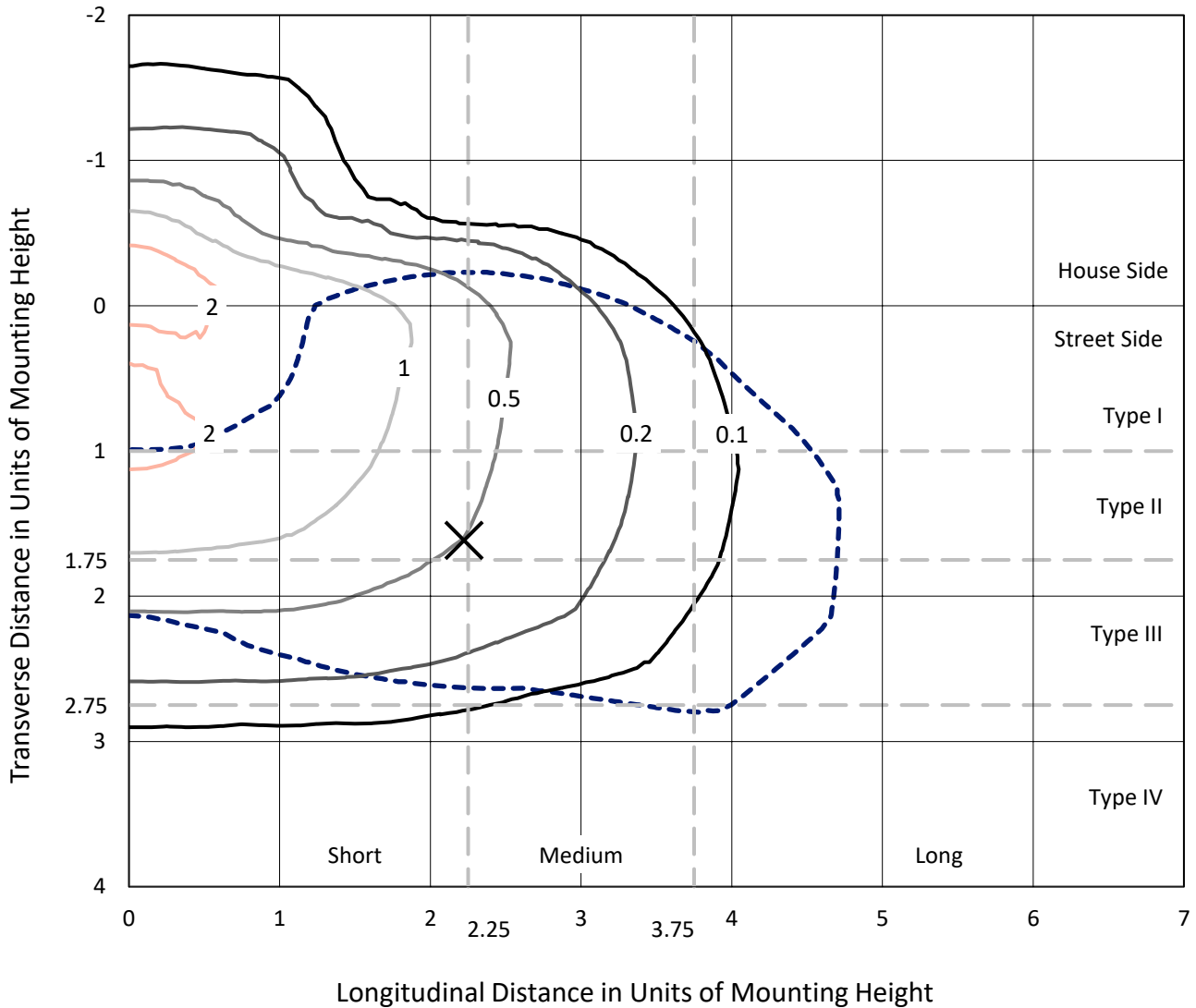
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P237062
 CATALOG NUMBER: ARCH-L-AF72-90-D-U-T3-7030

Iso-Footcandle Lines of Horizontal Illumination

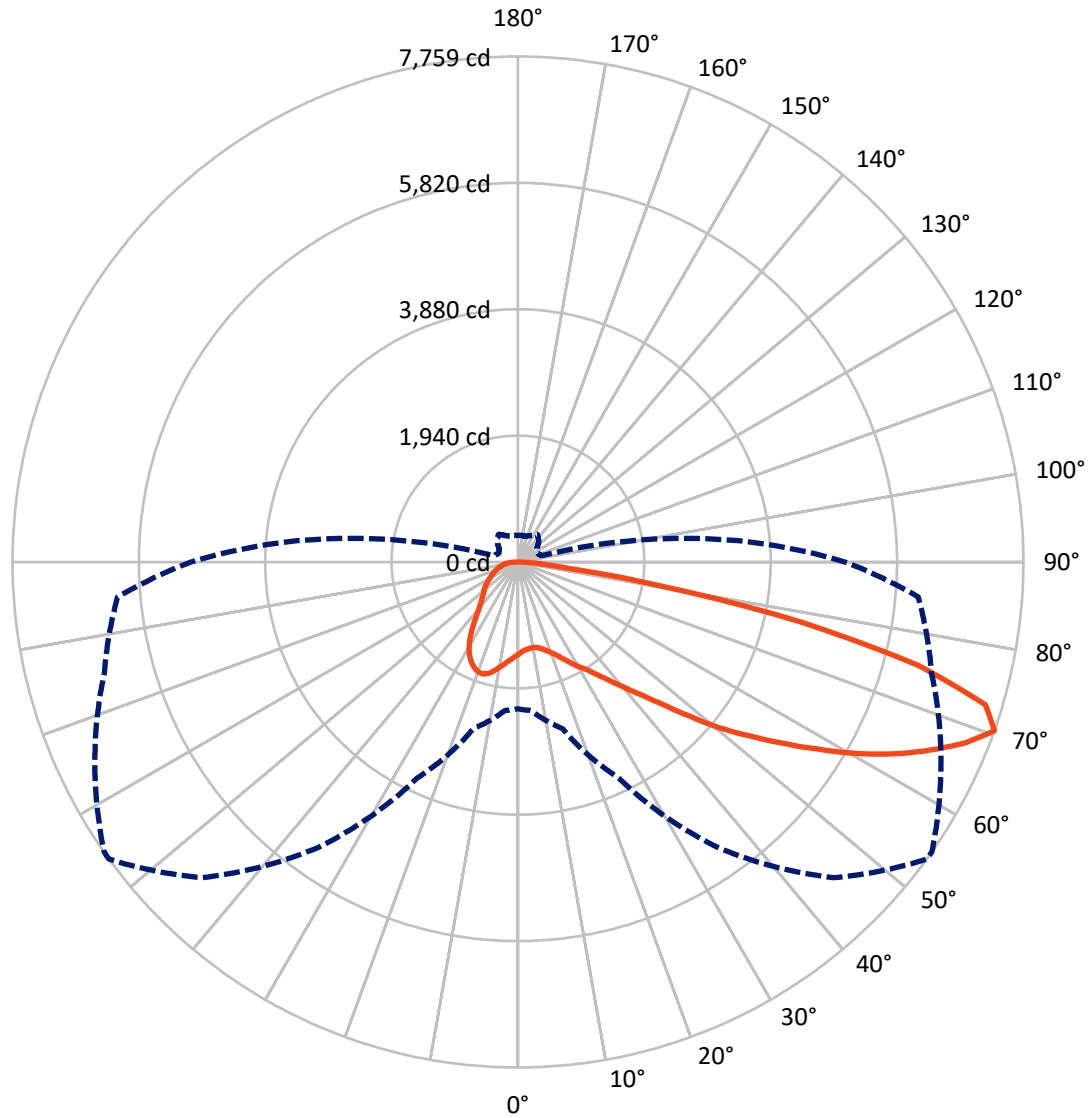
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - N/A

REPORT NUMBER: P237062
CATALOG NUMBER: ARCH-L-AF72-90-D-U-T3-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P237062
 CATALOG NUMBER: ARCH-L-AF72-90-D-U-T3-7030

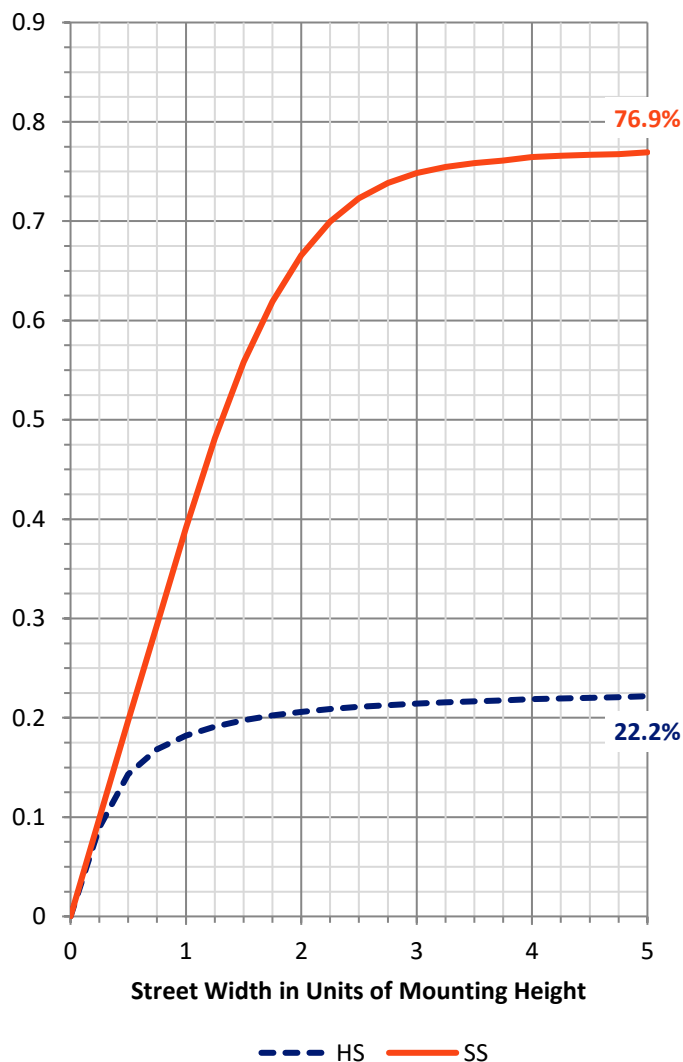
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2868.0	0.0	2868.0
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	9777.7	0.0	9777.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	12645.7	0.0	12645.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.8	1.1
10°-20°	443.6	3.5
20°-30°	770.8	6.1
30°-40°	1126.4	8.9
40°-50°	1767.8	14.0
50°-60°	2718.5	21.5
60°-70°	3321.3	26.3
70°-80°	2059.2	16.3
80°-90°	299.1	2.4
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°	12645.7	100.0
0°-180°	12645.7	100.0

Coefficient of Utilization



REPORT NUMBER: P237062

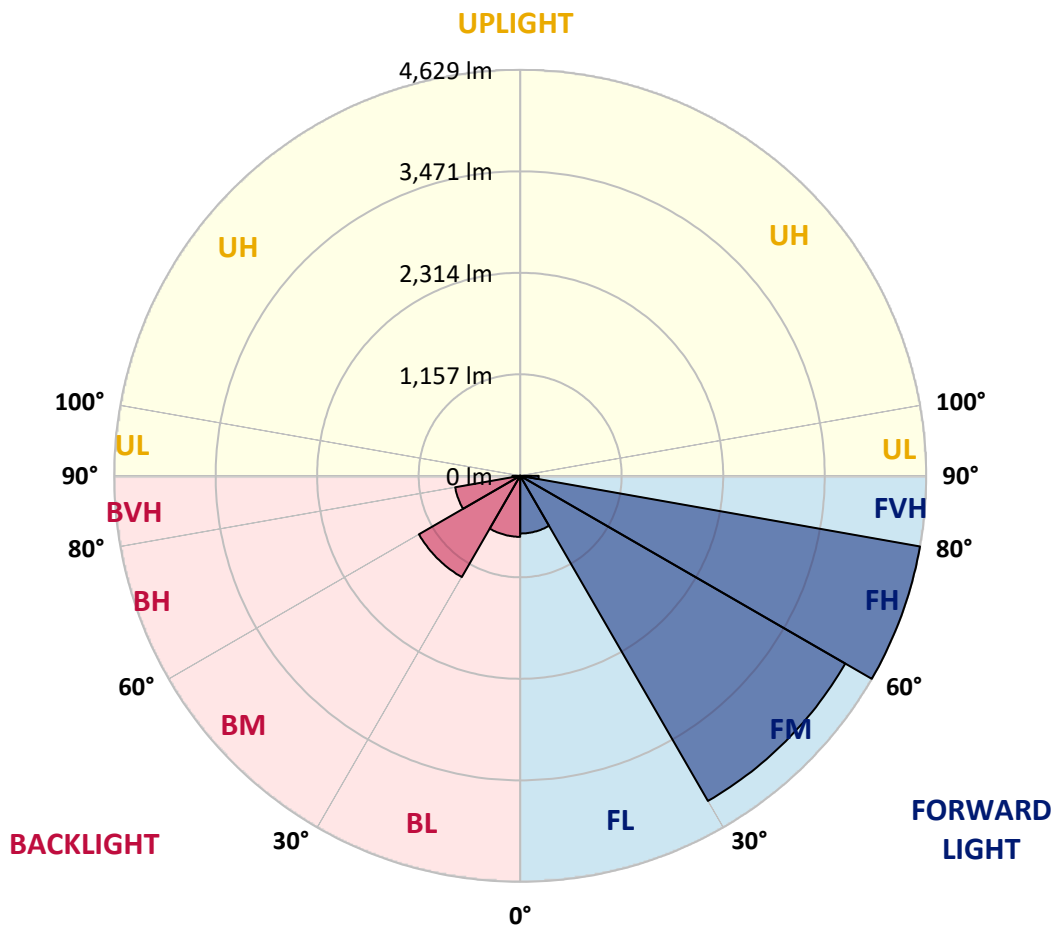
CATALOG NUMBER: ARCH-L-AF72-90-D-U-T3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	658.0	5.2			
FM (30°-60°)	4280.0	33.8			
FH (60°-80°)	4628.5	36.6			G2/5000
FVH (80°-90°)	211.2	1.7			G2/225
BL (0°-30°)	695.3	5.5	B2/1000		
BM (30°-60°)	1332.7	10.5	B2/2500		
BH (60°-80°)	752.1	5.9	B2/1000		G2/1000
BVH (80°-90°)	87.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P237062

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T3-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1414.8	1414.8	1414.8	1414.8	1414.8	1414.8	1414.8	1414.8	1414.8	1414.8	1414.8
2.5°	1359.1	1354.6	1354.6	1361.6	1363.9	1370.7	1370.7	1373.1	1380.1	1391.6	1405.5
5°	1317.5	1315.3	1317.5	1326.9	1331.5	1345.3	1350.0	1352.3	1366.2	1384.7	1405.5
7.5°	1275.8	1273.5	1278.3	1292.1	1305.9	1326.9	1338.4	1340.7	1361.6	1387.0	1414.8
10°	1262.0	1259.6	1266.7	1278.3	1292.1	1315.3	1333.7	1336.0	1366.2	1396.3	1435.6
12.5°	1280.5	1278.3	1285.1	1296.7	1310.6	1326.9	1347.6	1350.0	1389.3	1428.7	1470.4
15°	1326.9	1326.9	1329.1	1336.0	1350.0	1363.9	1382.3	1384.7	1426.4	1472.7	1514.4
17.5°	1398.6	1393.9	1393.9	1391.6	1400.9	1407.8	1431.0	1433.4	1477.3	1519.0	1560.7
20°	1486.6	1484.3	1475.0	1463.4	1461.2	1465.7	1488.8	1491.2	1535.2	1569.9	1609.3
22.5°	1593.1	1595.4	1574.5	1549.1	1537.5	1544.5	1565.3	1567.7	1600.0	1630.1	1664.9
25°	1734.4	1727.4	1697.4	1660.2	1637.1	1637.1	1657.9	1657.9	1688.0	1706.5	1729.7
27.5°	1868.7	1854.7	1827.0	1773.8	1736.6	1743.6	1764.4	1764.4	1792.2	1799.2	1810.8
30°	2014.5	2000.6	1965.9	1898.7	1850.1	1845.5	1870.9	1868.7	1905.7	1903.4	1894.1
32.5°	2192.9	2185.8	2128.0	2042.3	1977.5	1961.3	1984.3	1986.8	2010.0	2002.9	1972.7
35°	2442.9	2440.7	2387.4	2236.9	2151.1	2121.0	2134.9	2134.9	2151.1	2132.6	2081.7
37.5°	2757.8	2762.4	2716.0	2493.9	2373.4	2322.6	2324.8	2322.6	2327.1	2306.3	2253.0
40°	3072.7	3084.3	3081.9	2813.4	2660.6	2572.6	2540.2	2535.5	2547.1	2537.9	2486.8
42.5°	3487.2	3515.0	3450.2	3207.0	3035.7	2887.5	2799.4	2787.9	2813.4	2825.0	2776.3
45°	3917.9	3908.6	3806.7	3630.8	3475.6	3285.8	3119.1	3100.6	3119.1	3153.8	3102.9
47.5°	4142.4	4135.6	4110.2	4022.1	3998.9	3781.3	3528.8	3512.6	3477.9	3526.6	3466.4
50°	4513.0	4519.9	4415.7	4406.4	4503.7	4383.3	3992.0	3954.9	3892.5	3931.8	3880.9
52.5°	4781.6	4751.4	4686.6	4767.7	5071.0	5006.2	4427.3	4411.2	4353.2	4343.9	4320.7
55°	4890.5	4890.5	4902.0	5089.6	5522.5	5436.8	4899.7	4915.9	4837.1	4772.3	4802.4
57.5°	4922.7	4936.8	5036.3	5346.6	6052.9	5772.6	5420.7	5443.9	5330.3	5200.7	5295.7
60°	4763.0	4804.7	5043.3	5492.5	6351.6	6129.2	5969.5	5976.4	5812.0	5622.2	5788.9
62.5°	4353.2	4404.1	4830.3	5552.7	6302.9	6495.1	6488.2	6504.3	6279.7	6043.5	6252.0
65°	3850.8	3901.6	4355.5	5383.6	6265.8	6756.7	6962.9	7006.8	6717.4	6400.2	6541.4
67.5°	3112.0	3179.2	3609.9	4814.0	6085.2	6972.1	7407.4	7453.7	7055.4	6585.4	6515.9
70°	2255.3	2287.8	2649.0	3658.5	5348.9	6854.0	7759.4	7757.1	7166.7	6571.5	6168.6
72.5°	1086.0	1111.5	1424.0	2271.5	3825.2	5816.6	7504.7	7548.6	7013.8	6370.1	5374.4
75°	446.9	472.3	576.6	958.6	2007.5	3843.8	6360.7	6465.0	6370.1	5717.1	4205.1
77.5°	277.8	287.2	338.0	495.5	916.9	1794.6	4452.8	4594.1	5047.9	4580.1	2776.3
80°	208.3	215.3	252.4	347.3	578.8	662.2	2211.3	2389.6	3058.8	2628.1	1257.3
82.5°	173.6	176.0	201.5	252.4	393.7	379.7	708.5	789.6	1426.4	1002.7	433.0
85°	162.1	166.7	180.6	180.6	250.1	238.5	294.1	308.0	414.5	342.7	150.6
87.5°	83.4	78.7	159.7	141.3	129.7	115.9	125.0	134.3	155.1	164.4	67.2
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: P237062

CATALOG NUMBER: ARCH-L-AF72-90-D-U-T3-7030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1414.8	1414.8	1414.8	1414.8	1414.8	1414.8	1414.8	1414.8	1414.8	1414.8	1414.8
2.5°	1410.2	1417.1	1428.7	1440.2	1454.1	1470.4	1479.6	1491.2	1500.4	1495.9	1493.6
5°	1417.1	1428.7	1454.1	1477.3	1505.0	1537.5	1558.4	1581.5	1600.0	1604.7	1597.7
7.5°	1428.7	1449.6	1484.3	1526.0	1563.0	1604.7	1637.1	1669.5	1692.7	1697.4	1697.4
10°	1456.4	1479.6	1526.0	1581.5	1625.6	1669.5	1706.5	1732.0	1752.8	1762.2	1762.2
12.5°	1495.9	1523.6	1579.3	1646.3	1694.9	1736.6	1757.6	1769.1	1778.3	1787.6	1789.8
15°	1542.2	1572.2	1639.4	1711.2	1762.2	1783.0	1783.0	1780.6	1780.6	1785.3	1789.8
17.5°	1588.4	1620.9	1690.4	1766.7	1799.2	1787.6	1771.4	1764.4	1759.8	1757.6	1764.4
20°	1637.1	1669.5	1739.0	1810.8	1801.4	1752.8	1729.7	1713.5	1699.6	1692.7	1701.9
22.5°	1690.4	1720.4	1792.2	1840.8	1771.4	1697.4	1653.3	1627.9	1604.7	1590.9	1600.0
25°	1752.8	1783.0	1852.4	1850.1	1718.1	1614.0	1544.5	1502.8	1477.3	1463.4	1463.4
27.5°	1827.0	1852.4	1919.5	1827.0	1644.1	1502.8	1400.9	1361.6	1354.6	1343.1	1343.1
30°	1903.4	1924.2	1982.1	1773.8	1542.2	1356.9	1245.8	1227.2	1229.6	1218.0	1220.3
32.5°	1982.1	2002.9	2019.1	1694.9	1410.2	1192.4	1118.4	1104.5	1102.2	1092.9	1083.7
35°	2093.3	2123.4	2023.8	1588.4	1250.4	1055.9	1002.7	988.7	974.8	942.5	942.5
37.5°	2262.3	2294.7	2012.2	1456.4	1086.0	949.4	900.8	882.3	859.1	826.6	815.1
40°	2493.9	2493.9	1986.8	1308.3	954.1	863.7	817.4	794.2	768.7	736.3	729.5
42.5°	2767.1	2702.2	1947.3	1157.8	856.7	805.8	764.2	738.7	708.5	671.5	666.9
45°	3086.6	2910.6	1891.9	1023.4	784.9	771.1	745.5	701.7	650.6	611.3	604.3
47.5°	3396.9	3098.1	1838.5	928.4	724.7	757.1	736.3	662.2	592.7	537.2	530.2
50°	3737.3	3264.8	1776.0	849.8	678.5	747.9	724.7	604.3	527.9	488.6	483.9
52.5°	4077.7	3433.9	1708.9	766.5	639.0	729.5	697.0	562.6	525.6	472.3	465.5
55°	4436.6	3630.8	1630.1	673.8	592.7	692.3	659.9	560.4	541.8	472.3	456.1
57.5°	4786.2	3848.4	1502.8	583.6	541.8	636.8	646.0	546.6	507.1	467.7	449.2
60°	5172.9	4080.0	1292.1	507.1	497.9	590.4	627.4	516.4	467.7	453.9	444.5
62.5°	5483.1	4288.4	1009.5	453.9	460.7	553.4	604.3	497.9	451.6	440.0	437.6
65°	5617.4	4293.1	724.7	407.5	423.7	518.7	581.1	481.7	437.6	433.0	430.7
67.5°	5476.3	4056.8	509.3	363.5	384.4	486.3	551.1	465.5	423.7	426.1	421.4
70°	5020.1	3559.0	372.8	321.9	347.3	451.6	518.7	444.5	407.5	412.1	405.3
72.5°	4200.4	2774.0	298.8	287.2	317.2	414.5	486.3	421.4	382.1	384.4	370.5
75°	3102.9	1838.5	250.1	257.0	282.6	379.7	444.5	391.3	354.3	345.0	335.8
77.5°	1845.5	944.8	206.1	224.6	252.4	338.0	398.2	354.3	324.2	308.0	301.0
80°	761.9	382.1	169.1	189.9	219.9	301.0	352.0	310.3	289.4	273.2	264.0
82.5°	303.3	187.6	134.3	155.1	185.2	261.6	308.0	273.2	252.4	240.8	215.3
85°	115.9	92.7	90.3	108.8	139.0	201.5	254.7	229.2	213.0	182.9	176.0
87.5°	46.3	41.6	41.6	53.2	78.7	127.4	182.9	159.7	166.7	131.9	134.3
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)