

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: P237342

Luminaire Tested: **ARCH-L-AF72-90-D-U-T4W-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237342
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-AF72-90-D-U-T4W-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 400mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13021 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

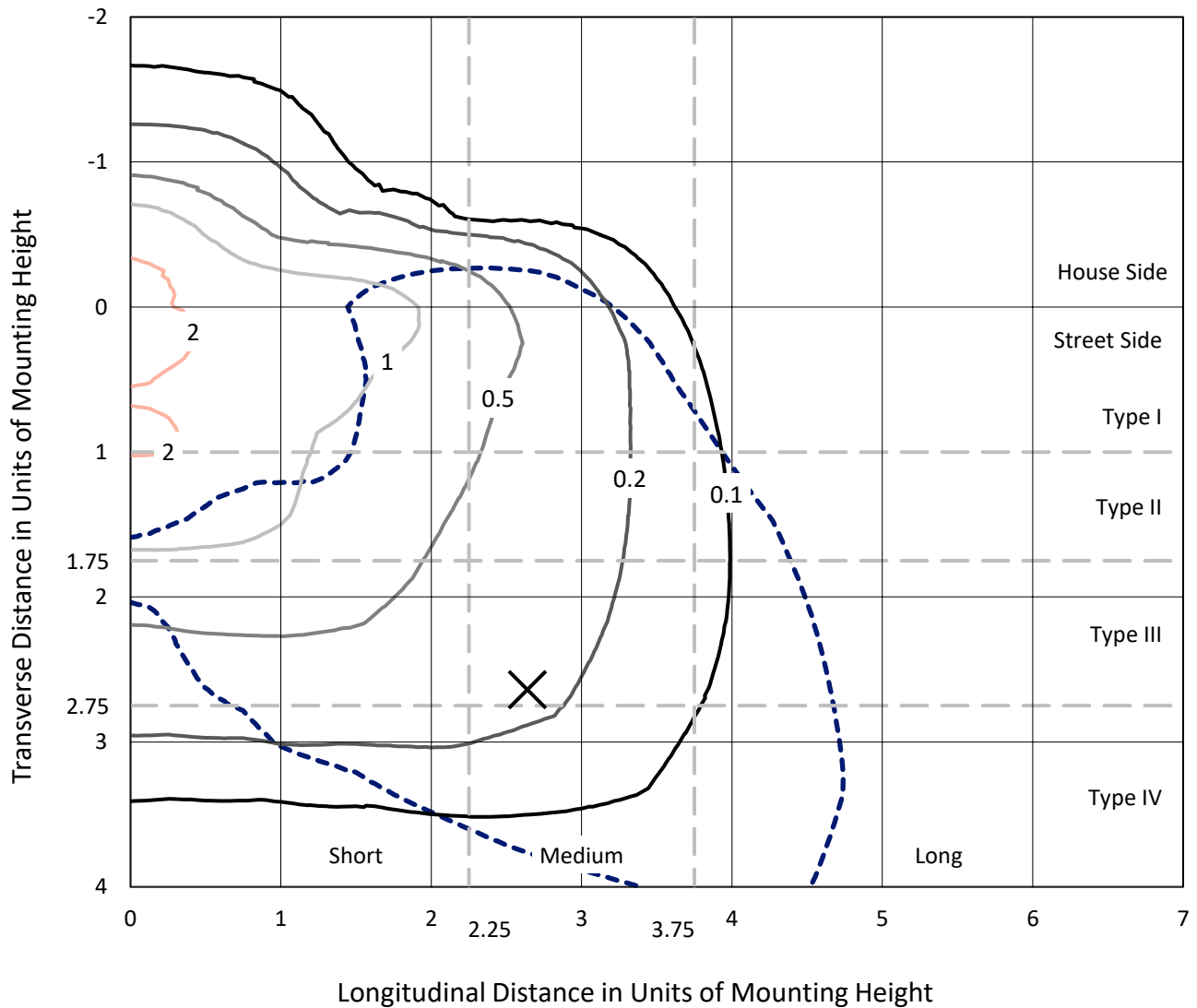
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

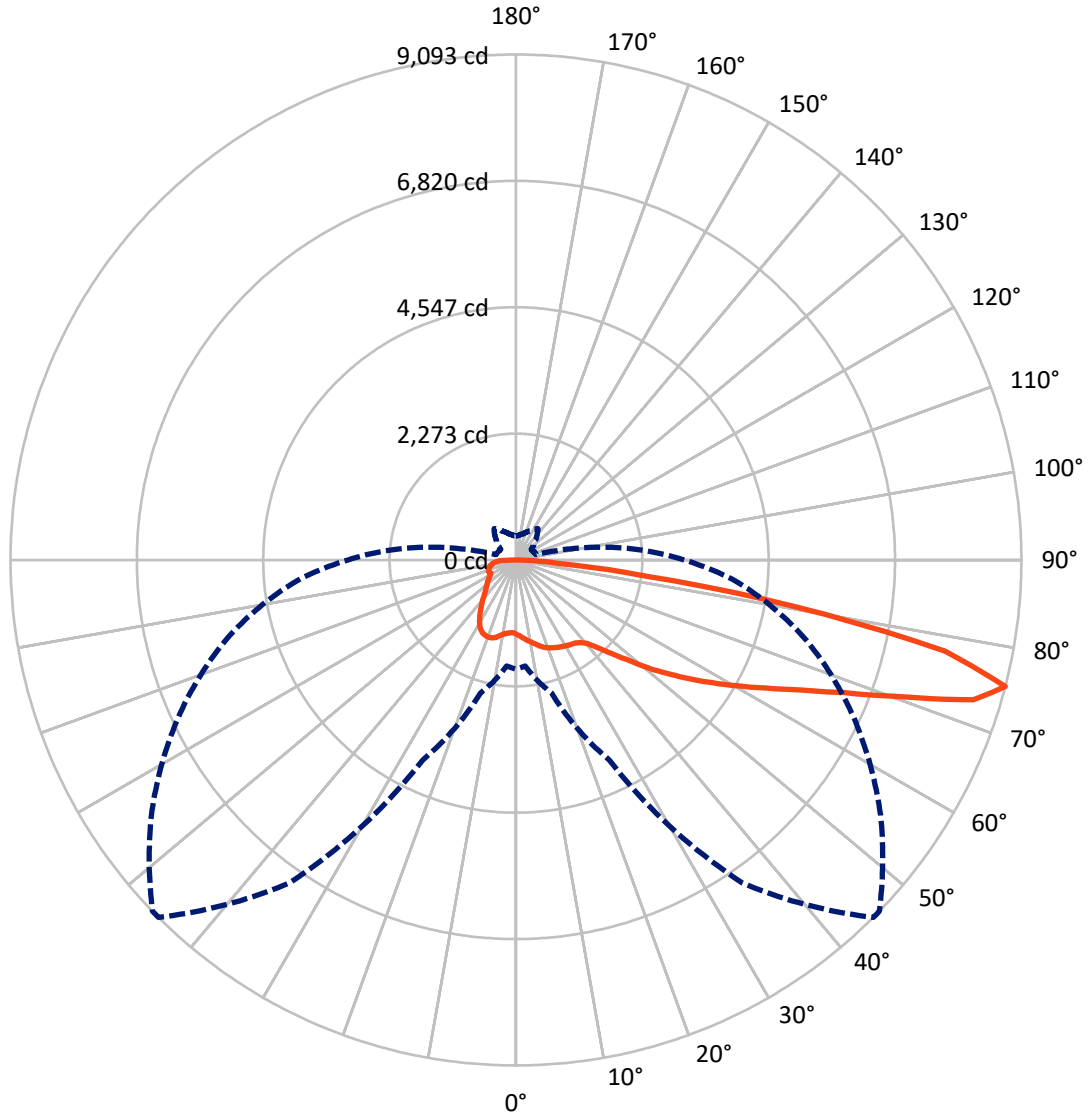
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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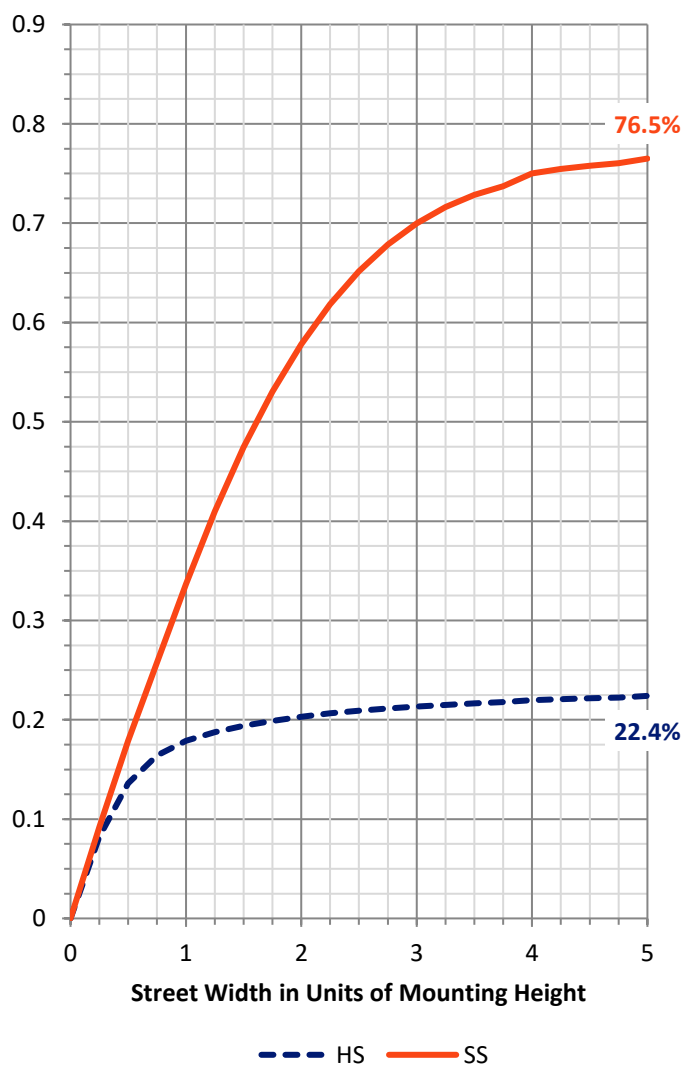
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3016.4	0.0	3016.4
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	10004.6	0.0	10004.6
	% Fixture	76.8	0.0	76.8
Total	Lumens	13021.0	0.0	13021.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	1.0
10°-20°	428.7	3.3
20°-30°	735.6	5.6
30°-40°	1028.8	7.9
40°-50°	1509.2	11.6
50°-60°	2350.9	18.1
60°-70°	3382.7	26.0
70°-80°	2946.7	22.6
80°-90°	506.1	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°	13021.0	100.0
0°-180°	13021.0	100.0

Coefficient of Utilization



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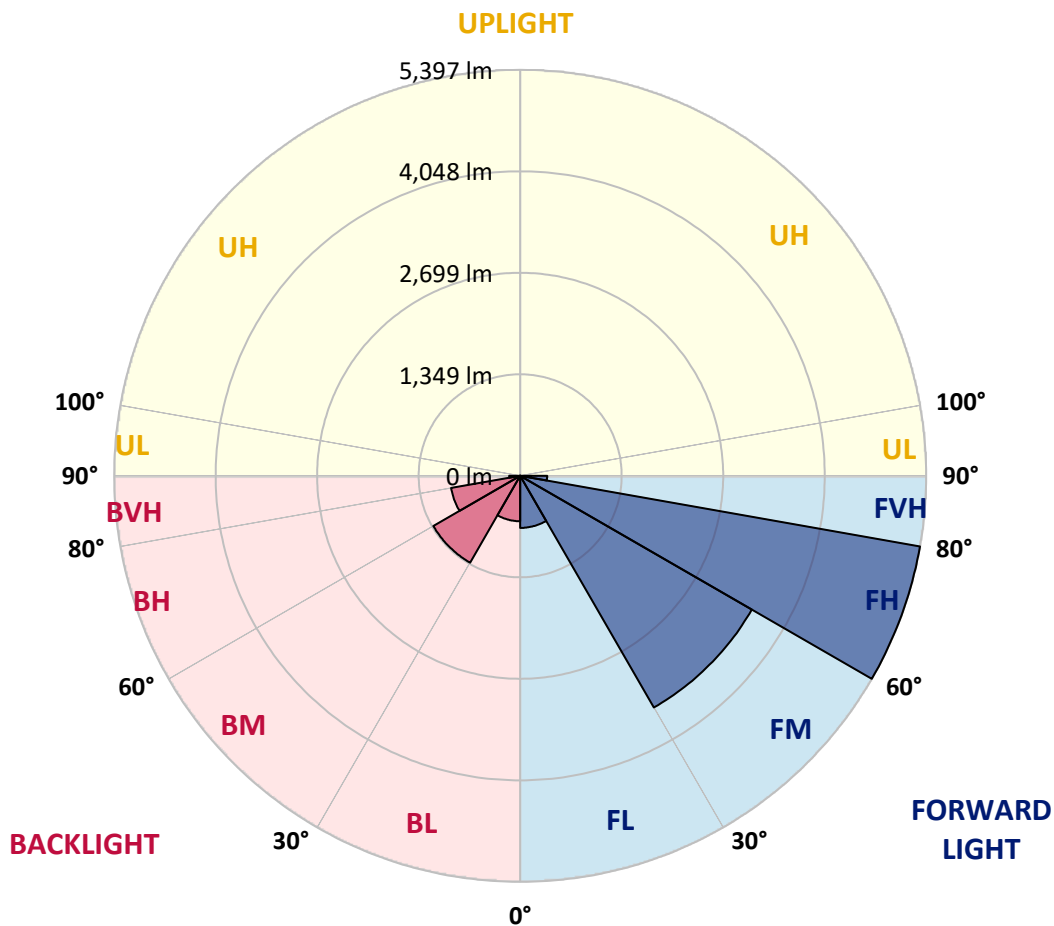
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	692.4	5.3			
FM (30°-60°)	3555.8	27.3			
FH (60°-80°)	5397.3	41.5			G3/7500
FVH (80°-90°)	359.1	2.8			G3/500
BL (0°-30°)	604.1	4.6	B2/1000		
BM (30°-60°)	1333.1	10.2	B2/2500		
BH (60°-80°)	932.2	7.2	B2/1000		G2/1000
BVH (80°-90°)	147.0	1.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8
2.5°	1400.7	1390.6	1390.6	1383.0	1383.0	1370.3	1365.2	1362.7	1350.0	1342.4	1334.8
5°	1481.7	1469.1	1466.5	1448.8	1441.2	1413.4	1410.8	1393.1	1370.3	1347.5	1329.8
7.5°	1555.2	1547.6	1534.9	1517.2	1494.4	1458.9	1456.4	1428.6	1390.6	1360.2	1334.8
10°	1608.4	1603.3	1585.6	1562.8	1537.5	1502.0	1499.5	1469.1	1423.5	1388.0	1352.6
12.5°	1671.7	1664.1	1641.3	1610.9	1583.1	1550.1	1547.6	1522.3	1471.6	1426.0	1380.4
15°	1732.5	1722.4	1694.5	1664.1	1633.7	1605.9	1605.9	1578.0	1524.8	1471.6	1418.4
17.5°	1762.9	1757.8	1730.0	1697.0	1671.7	1651.4	1648.9	1623.6	1570.4	1514.7	1456.4
20°	1773.0	1775.6	1750.2	1714.8	1697.0	1686.9	1684.4	1666.6	1608.4	1555.2	1499.5
22.5°	1770.5	1778.1	1757.8	1719.8	1714.8	1714.8	1714.8	1694.5	1648.9	1595.7	1540.0
25°	1780.6	1790.8	1775.6	1730.0	1730.0	1740.1	1740.1	1730.0	1689.4	1643.9	1588.1
27.5°	1816.1	1823.7	1811.0	1747.7	1750.2	1765.4	1762.9	1765.4	1740.1	1697.0	1641.3
30°	1859.1	1869.3	1854.1	1775.6	1773.0	1788.2	1788.2	1800.9	1783.2	1737.6	1692.0
32.5°	1975.7	1973.1	1925.0	1806.0	1798.4	1813.6	1813.6	1826.2	1816.1	1780.6	1737.6
35°	2322.7	2284.7	2178.3	1904.7	1828.8	1836.4	1836.4	1859.1	1864.2	1836.4	1798.4
37.5°	2677.3	2664.6	2583.6	2168.2	1940.2	1884.5	1881.9	1914.9	1937.7	1914.9	1889.5
40°	3034.4	3024.3	3006.5	2520.2	2173.2	1970.6	1963.0	1990.9	2031.4	2016.2	2001.0
42.5°	3366.2	3361.2	3378.9	2867.2	2469.6	2155.5	2132.7	2099.8	2158.0	2153.0	2153.0
45°	3627.1	3639.8	3649.9	3191.5	2791.3	2393.6	2365.7	2254.3	2332.8	2353.1	2368.3
47.5°	3774.0	3784.1	3819.6	3508.1	3112.9	2669.7	2649.4	2467.0	2570.9	2631.7	2674.7
50°	3984.2	3956.4	3986.8	3817.1	3500.5	3029.3	2973.6	2753.3	2885.0	2991.4	3092.7
52.5°	4186.9	4141.3	4166.6	4174.2	3941.2	3381.4	3323.2	3090.1	3254.8	3421.9	3601.8
55°	4369.2	4366.7	4392.0	4521.2	4366.7	3758.8	3693.0	3462.5	3700.6	3880.4	4184.3
57.5°	4516.2	4541.5	4652.9	4924.0	4858.1	4169.2	4095.7	3895.6	4176.7	4356.6	4860.6
60°	4688.4	4728.9	4913.8	5265.9	5306.4	4599.7	4523.8	4379.4	4665.6	4848.0	5643.3
62.5°	4746.7	4804.9	5184.8	5625.6	5775.0	5070.9	5002.5	4906.2	5179.8	5344.4	6423.4
65°	4359.1	4470.6	5334.3	5810.5	6279.1	5638.2	5580.0	5496.4	5691.4	5800.3	6952.8
67.5°	4252.7	4303.4	5043.0	6076.4	6752.7	6367.7	6309.4	6165.1	6170.1	6124.5	7125.0
70°	4103.3	4159.0	4744.1	6276.5	7431.5	7365.7	7294.7	6869.2	6608.3	6332.2	6785.6
72.5°	3495.4	3477.7	4088.1	5737.0	7758.3	8601.7	8518.1	7626.6	6932.5	6152.4	5726.9
75°	1963.0	1912.3	2479.7	3969.1	7084.5	9093.1	9090.6	8009.0	6704.6	5359.6	3898.1
77.5°	569.9	554.7	818.1	1664.1	4769.4	7900.1	7996.4	7223.8	5595.2	3850.0	2140.3
80°	268.5	273.6	352.1	549.6	2036.5	5098.7	5374.8	4756.8	3343.4	1775.6	884.0
82.5°	169.7	172.2	240.6	354.6	861.2	2315.1	2543.0	2140.3	1324.7	767.5	390.1
85°	106.4	106.4	159.6	233.0	514.2	739.6	802.9	729.5	567.4	417.9	212.8
87.5°	58.3	58.3	96.3	134.2	281.2	238.1	245.7	291.3	354.6	255.8	106.4
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°	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8	1334.8
2.5°	1332.3	1327.2	1319.6	1317.1	1314.6	1312.0	1314.6	1319.6	1314.6	1314.6	1317.1
5°	1324.7	1319.6	1309.5	1309.5	1312.0	1314.6	1327.2	1334.8	1337.4	1337.4	1337.4
7.5°	1324.7	1317.1	1309.5	1312.0	1317.1	1327.2	1347.5	1360.2	1370.3	1372.8	1372.8
10°	1337.4	1327.2	1322.2	1327.2	1342.4	1350.0	1370.3	1390.6	1403.2	1408.3	1408.3
12.5°	1360.2	1350.0	1350.0	1360.2	1380.4	1390.6	1408.3	1423.5	1438.7	1446.3	1446.3
15°	1398.2	1385.5	1388.0	1405.8	1428.6	1438.7	1451.4	1456.4	1469.1	1479.2	1479.2
17.5°	1433.6	1421.0	1426.0	1446.3	1461.5	1466.5	1474.1	1471.6	1476.7	1484.3	1486.8
20°	1474.1	1461.5	1464.0	1476.7	1479.2	1474.1	1474.1	1466.5	1464.0	1476.7	1481.7
22.5°	1514.7	1502.0	1499.5	1491.9	1479.2	1466.5	1458.9	1451.4	1446.3	1458.9	1464.0
25°	1562.8	1545.1	1532.4	1499.5	1466.5	1443.8	1433.6	1428.6	1426.0	1438.7	1443.8
27.5°	1616.0	1598.3	1560.3	1489.3	1436.2	1398.2	1390.6	1390.6	1395.6	1403.2	1408.3
30°	1666.6	1648.9	1580.5	1466.5	1383.0	1327.2	1319.6	1327.2	1339.9	1347.5	1355.1
32.5°	1717.3	1699.6	1593.2	1431.1	1304.4	1233.5	1228.5	1241.1	1261.4	1266.4	1271.5
35°	1785.7	1768.0	1608.4	1380.4	1205.7	1129.7	1124.6	1132.2	1149.9	1157.5	1165.1
37.5°	1881.9	1871.8	1631.2	1324.7	1114.5	1030.9	1015.7	1010.6	1020.8	1018.2	1028.4
40°	2008.6	2016.2	1671.7	1251.3	1025.8	939.7	906.8	891.6	881.4	861.2	871.3
42.5°	2193.5	2198.6	1717.3	1167.7	949.8	853.6	810.5	782.7	762.4	729.5	734.5
45°	2464.5	2421.5	1770.5	1079.0	881.4	785.2	734.5	701.6	673.8	645.9	648.4
47.5°	2824.2	2692.5	1828.8	1005.6	813.1	729.5	683.9	645.9	613.0	590.2	592.7
50°	3267.4	3029.3	1887.0	937.2	744.7	686.4	645.9	605.4	572.4	549.6	547.1
52.5°	3852.5	3434.6	1925.0	861.2	676.3	648.4	613.0	575.0	534.4	506.6	504.0
55°	4460.4	3905.7	1957.9	770.0	610.4	605.4	587.6	544.6	496.4	461.0	455.9
57.5°	5129.1	4409.8	1983.3	681.3	559.8	569.9	564.8	514.2	461.0	428.1	425.5
60°	5737.0	4931.6	1902.2	602.8	514.2	534.4	539.5	496.4	468.6	476.2	478.7
62.5°	6350.0	5334.3	1593.2	544.6	483.8	511.6	554.7	552.2	539.5	552.2	554.7
65°	6570.3	5417.9	1129.7	496.4	453.4	521.8	602.8	597.8	539.5	516.7	511.6
67.5°	6446.2	5169.6	759.9	458.5	430.6	534.4	653.5	597.8	519.2	488.8	478.7
70°	5856.1	4559.2	557.2	420.5	410.3	531.9	681.3	595.2	509.1	476.2	463.5
72.5°	4670.7	3518.2	448.3	385.0	379.9	519.2	696.5	590.2	499.0	463.5	448.3
75°	3024.3	2188.4	377.4	349.5	334.3	499.0	688.9	575.0	486.3	440.7	430.6
77.5°	1403.2	942.2	321.7	309.0	291.3	468.6	666.2	544.6	458.5	415.4	402.7
80°	653.5	445.8	271.0	268.5	260.9	443.3	635.8	509.1	425.5	390.1	369.8
82.5°	349.5	268.5	220.4	220.4	228.0	412.9	597.8	466.1	382.5	364.7	311.5
85°	184.9	154.5	159.6	172.2	195.0	364.7	547.1	420.5	334.3	278.6	271.0
87.5°	93.7	98.8	98.8	116.5	149.4	296.3	450.9	347.0	283.7	228.0	222.9
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)