

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: P572894

Luminaire Tested: **ARCH-S-PA2-130-727-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-19)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-727-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13510 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

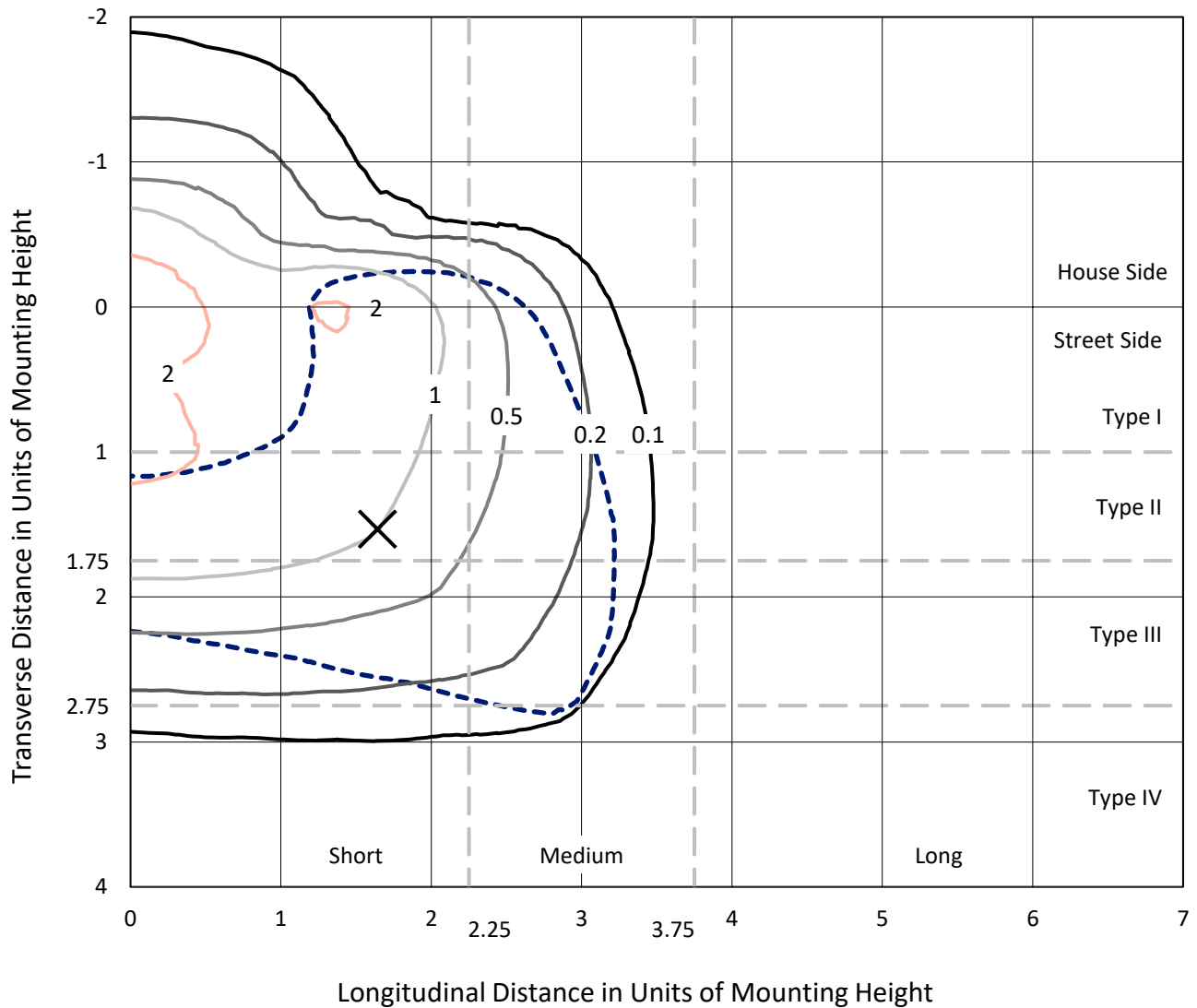
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

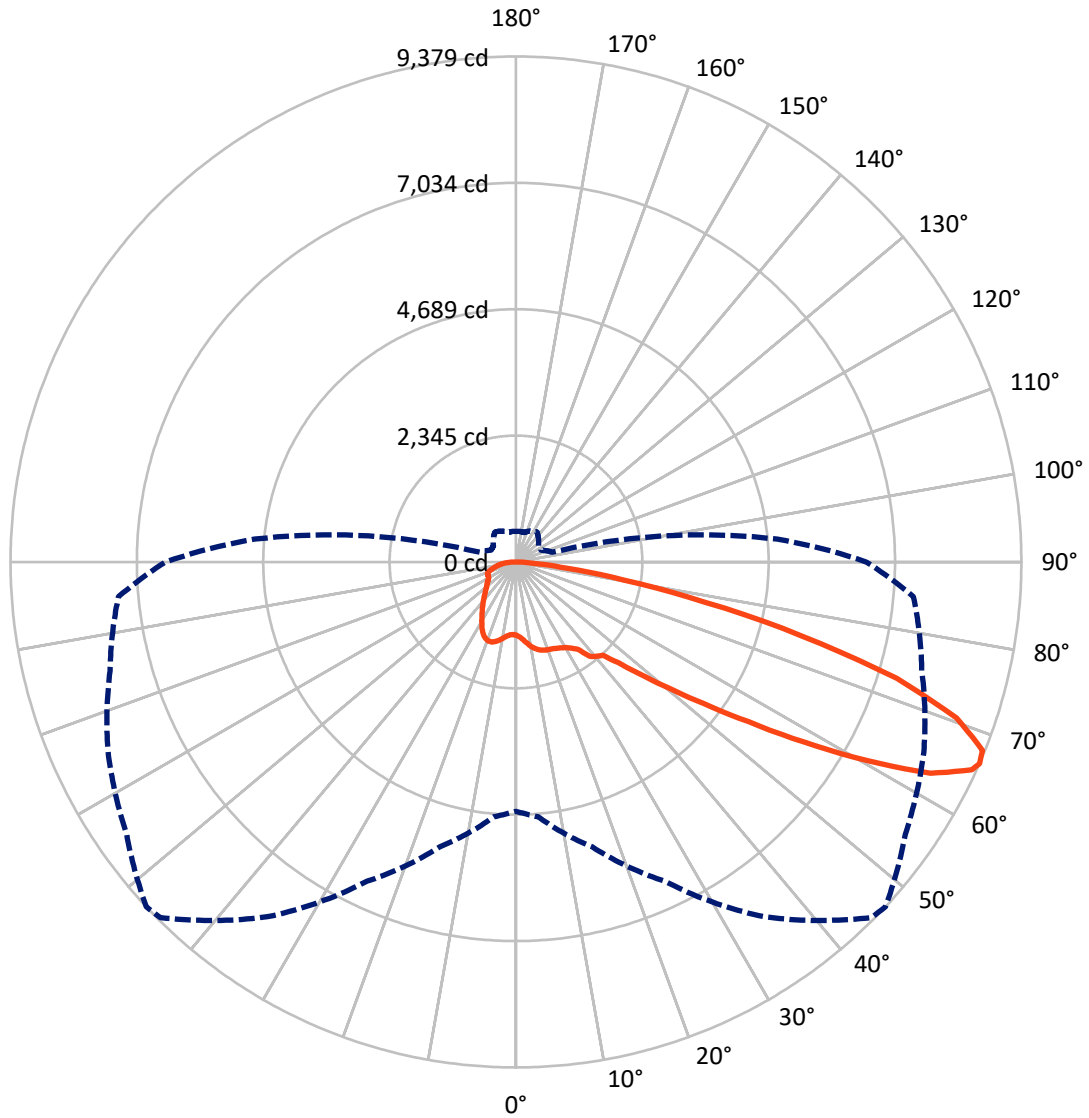
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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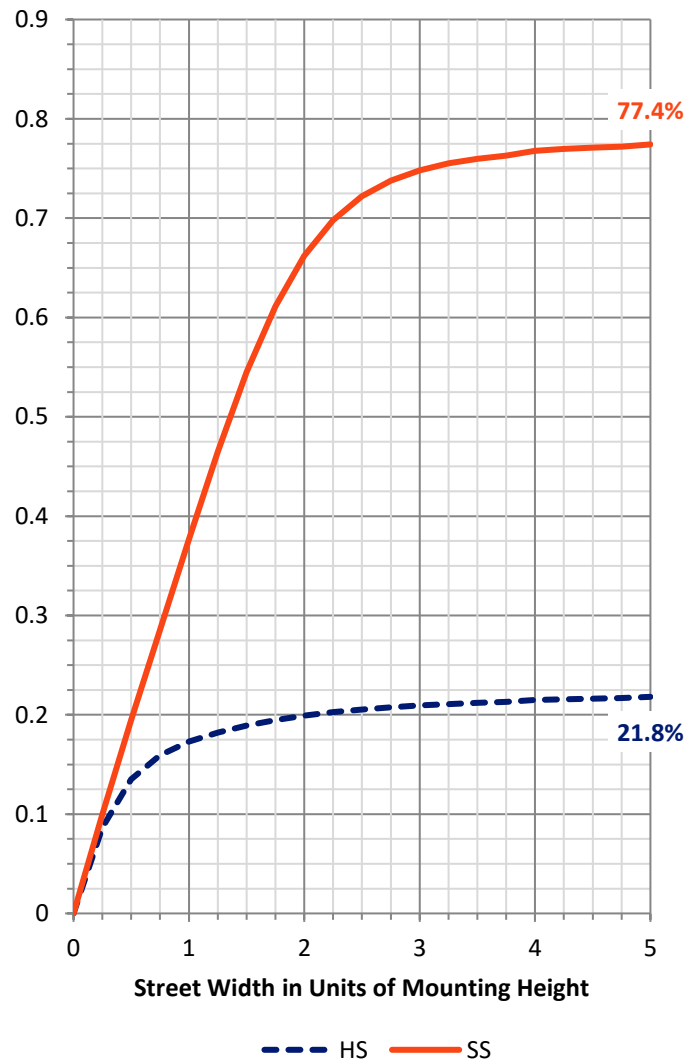
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3003.7	0.0	3003.7
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	10506.3	0.0	10506.3
	% Fixture	77.8	0.0	77.8
Total	Lumens	13510.0	0.0	13510.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.2	1.0
10°-20°	453.5	3.4
20°-30°	756.3	5.6
30°-40°	1098.2	8.1
40°-50°	1679.6	12.4
50°-60°	3174.9	23.5
60°-70°	4102.4	30.4
70°-80°	1844.0	13.6
80°-90°	263.0	1.9
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°	13510.0	100.0
0°-180°	13510.0	100.0

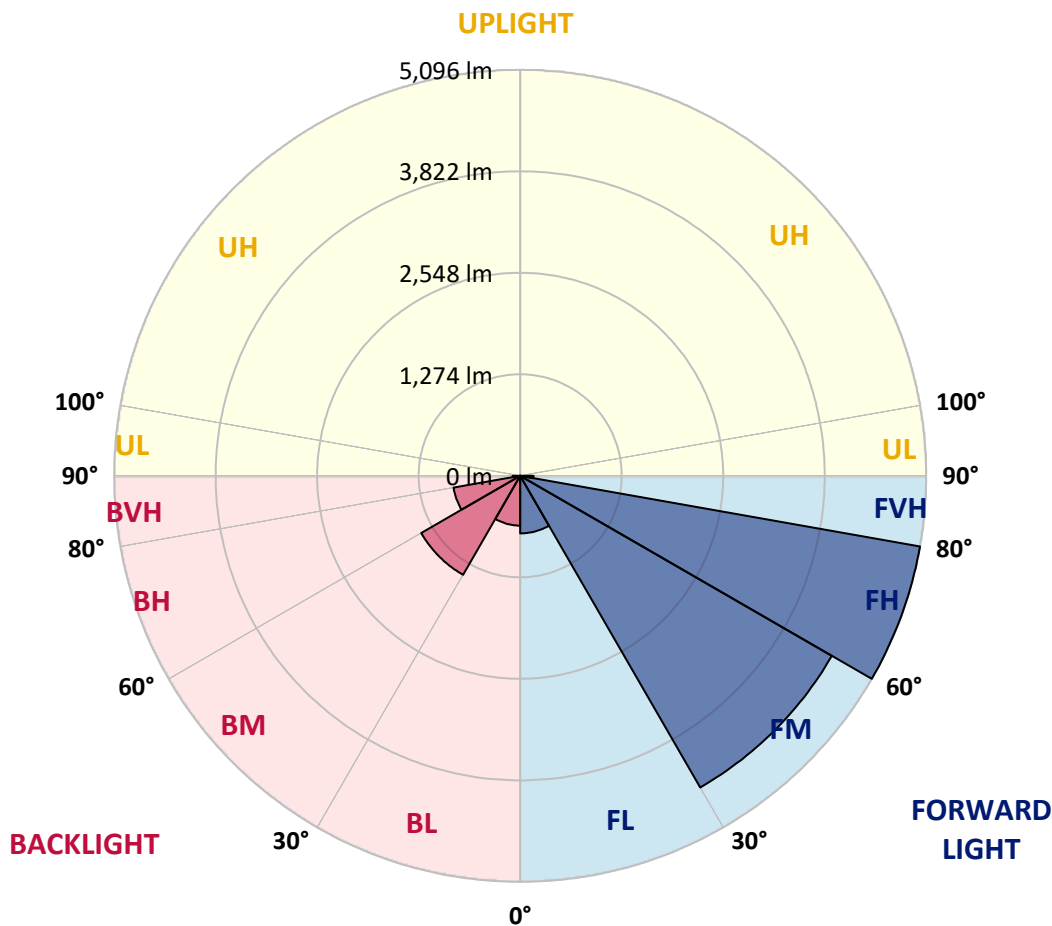


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.8	5.4			
FM (30°-60°)	4518.0	33.4			
FH (60°-80°)	5096.5	37.7			G3/7500
FVH (80°-90°)	169.0	1.3			G2/225
BL (0°-30°)	625.1	4.6	B2/1000		
BM (30°-60°)	1434.7	10.6	B2/2500		
BH (60°-80°)	849.9	6.3	B2/1000		G2/1000
BVH (80°-90°)	94.0	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-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2
2.5°	1435.3	1424.2	1416.9	1413.2	1405.9	1391.2	1391.2	1387.5	1372.8	1365.5	1361.8
5°	1549.0	1541.7	1523.3	1508.7	1486.6	1457.3	1453.6	1431.6	1402.2	1380.2	1365.5
7.5°	1659.2	1651.8	1633.5	1611.4	1574.7	1538.0	1527.0	1497.7	1449.9	1416.9	1391.2
10°	1754.6	1743.6	1721.6	1692.2	1651.8	1611.4	1600.4	1567.4	1519.7	1472.0	1427.9
12.5°	1817.0	1809.7	1784.0	1747.3	1703.2	1662.8	1655.5	1626.1	1578.4	1527.0	1472.0
15°	1846.4	1842.7	1813.3	1776.6	1732.6	1699.5	1695.9	1670.2	1629.8	1578.4	1516.0
17.5°	1839.0	1835.4	1809.7	1773.0	1739.9	1721.6	1721.6	1703.2	1670.2	1626.1	1560.1
20°	1802.3	1802.3	1780.3	1754.6	1736.2	1732.6	1732.6	1728.9	1706.9	1670.2	1604.1
22.5°	1765.6	1765.6	1750.9	1732.6	1728.9	1743.6	1747.3	1754.6	1747.3	1717.9	1659.2
25°	1773.0	1769.3	1750.9	1728.9	1732.6	1765.6	1773.0	1791.3	1787.6	1765.6	1714.2
27.5°	1853.7	1850.0	1802.3	1758.3	1754.6	1795.0	1802.3	1828.0	1828.0	1809.7	1776.6
30°	2055.6	2062.9	1974.8	1864.7	1809.7	1835.4	1842.7	1872.1	1886.7	1894.1	1868.4
32.5°	2363.9	2352.9	2220.8	2040.9	1919.8	1894.1	1905.1	1930.8	1982.2	1996.9	1934.5
35°	2676.0	2683.3	2554.8	2327.2	2096.0	2000.5	1993.2	2029.9	2107.0	2040.9	1930.8
37.5°	2965.9	2954.9	2804.4	2558.5	2327.2	2217.1	2220.8	2206.1	2140.0	2007.9	1956.5
40°	3281.6	3252.3	3127.5	2811.8	2518.1	2334.6	2301.5	2176.7	2121.7	2066.6	2059.3
42.5°	3593.6	3597.3	3494.5	3182.5	2745.7	2419.0	2367.6	2239.1	2275.8	2264.8	2257.5
45°	3986.4	3986.4	3883.6	3593.6	3105.4	2734.7	2664.9	2510.8	2569.5	2613.6	2701.6
47.5°	4346.1	4324.1	4294.7	4048.8	3575.3	3145.8	3116.4	2940.2	3094.4	3230.2	3410.1
50°	4727.9	4698.5	4680.2	4529.7	4192.0	3769.8	3681.7	3498.2	3835.9	4089.2	4423.2
52.5°	5322.5	5271.2	5175.7	5091.3	4959.1	4470.9	4360.8	4225.0	4661.8	4981.2	5663.9
55°	5858.5	5814.4	5722.7	5785.1	5766.7	5322.5	5227.1	5098.6	5572.2	5961.2	6743.1
57.5°	6056.7	6060.4	6185.2	6519.2	6695.4	6438.4	6302.6	6174.1	6574.3	6754.1	7458.9
60°	6148.5	6137.4	6460.5	7003.7	7576.4	7653.4	7480.9	7216.6	7367.1	7378.1	8064.6
62.5°	5950.2	5979.6	6423.8	7205.6	8104.9	8659.2	8633.5	8171.0	8031.5	7877.4	8226.1
65°	5197.7	5238.1	5891.5	6845.9	8189.4	9268.6	9294.3	8754.7	8365.6	7936.1	7767.2
66°	4625.1	4746.2	5473.0	6533.9	8035.2	9331.0	9378.7	8817.1	8350.9	7796.6	7403.8
67.5°	3879.9	3872.6	4683.8	5847.5	7605.7	9275.9	9338.3	8729.0	8152.7	7385.5	6677.0
70°	2375.0	2448.4	3145.8	4364.5	6295.3	8589.5	8673.9	8108.6	7297.4	6254.9	4937.1
72.5°	1218.7	1339.8	1798.7	2837.5	4570.0	7099.2	7385.5	6809.2	5964.9	4526.0	3013.7
75°	646.0	638.7	847.9	1538.0	2918.2	5326.2	5476.7	5106.0	4122.2	2698.0	1534.4
77.5°	345.0	363.4	444.2	789.2	1604.1	3402.8	3593.6	3292.6	2349.3	1380.2	734.1
80°	234.9	245.9	301.0	444.2	870.0	1846.4	2022.6	1754.6	1229.7	653.4	345.0
82.5°	150.5	157.8	205.6	275.3	521.2	895.7	943.4	899.3	602.0	370.7	209.2
85°	91.8	95.4	124.8	176.2	326.7	363.4	378.1	381.8	337.7	242.3	113.8
87.5°	44.0	47.7	69.7	88.1	154.2	132.1	121.1	124.8	187.2	143.2	51.4
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°	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2	1358.2
2.5°	1358.2	1354.5	1347.2	1343.5	1347.2	1347.2	1347.2	1350.8	1358.2	1358.2	1361.8
5°	1358.2	1350.8	1343.5	1343.5	1350.8	1358.2	1365.5	1380.2	1387.5	1391.2	1391.2
7.5°	1376.5	1369.2	1361.8	1361.8	1372.8	1387.5	1402.2	1420.6	1438.9	1453.6	1453.6
10°	1413.2	1402.2	1394.9	1398.5	1416.9	1435.3	1453.6	1475.6	1494.0	1512.3	1512.3
12.5°	1453.6	1442.6	1431.6	1438.9	1464.6	1486.6	1505.0	1516.0	1534.4	1549.0	1549.0
15°	1494.0	1475.6	1472.0	1486.6	1512.3	1527.0	1534.4	1534.4	1541.7	1556.4	1556.4
17.5°	1538.0	1519.7	1516.0	1530.7	1552.7	1552.7	1538.0	1527.0	1523.3	1534.4	1538.0
20°	1582.1	1563.7	1563.7	1574.7	1571.1	1545.4	1519.7	1501.3	1486.6	1497.7	1501.3
22.5°	1637.1	1618.8	1611.4	1596.8	1563.7	1512.3	1472.0	1449.9	1438.9	1446.3	1453.6
25°	1692.2	1677.5	1659.2	1607.8	1530.7	1449.9	1398.5	1380.2	1383.9	1398.5	1405.9
27.5°	1761.9	1754.6	1710.6	1600.4	1472.0	1361.8	1310.4	1306.8	1321.5	1343.5	1354.5
30°	1846.4	1835.4	1758.3	1578.4	1391.2	1259.1	1222.3	1229.7	1251.7	1270.1	1281.1
32.5°	1905.1	1897.8	1780.3	1527.0	1292.1	1167.3	1137.9	1137.9	1148.9	1174.6	1185.6
35°	1923.5	1952.8	1795.0	1449.9	1174.6	1086.5	1057.2	1038.8	1038.8	1060.8	1068.2
37.5°	1985.9	2051.9	1802.3	1347.2	1079.2	1013.1	976.4	943.4	932.4	928.7	928.7
40°	2129.0	2206.1	1798.7	1215.0	987.4	939.7	895.7	858.9	829.6	789.2	792.9
42.5°	2378.6	2437.4	1787.6	1075.5	906.7	873.6	829.6	785.5	737.8	693.8	690.1
45°	2859.5	2771.4	1758.3	954.4	833.3	814.9	774.5	723.1	664.4	624.0	624.0
47.5°	3619.3	3377.1	1739.9	840.6	767.2	763.5	726.8	671.7	613.0	583.6	580.0
50°	4661.8	4214.0	1769.3	759.8	708.4	719.5	690.1	638.7	591.0	565.3	561.6
52.5°	5858.5	5113.3	1802.3	708.4	664.4	686.4	671.7	624.0	576.3	554.3	550.6
55°	6783.5	5843.8	1754.6	660.7	620.4	653.4	653.4	609.3	569.0	546.9	546.9
57.5°	7433.2	6137.4	1589.4	616.7	583.6	624.0	635.0	602.0	565.3	557.9	557.9
60°	7712.2	6122.8	1299.4	576.3	557.9	594.7	624.0	594.7	572.6	591.0	594.7
62.5°	7561.7	5803.4	1009.4	546.9	539.6	587.3	635.0	624.0	598.3	613.0	620.4
65°	6882.6	5241.8	759.8	521.2	517.6	591.0	664.4	642.4	580.0	583.6	587.3
66°	6500.8	4863.7	697.4	513.9	510.2	594.7	679.1	635.0	565.3	572.6	569.0
67.5°	5685.9	4269.0	613.0	499.2	495.5	594.7	697.4	620.4	546.9	557.9	546.9
70°	4169.9	3021.0	524.9	480.9	473.5	583.6	693.8	591.0	506.6	499.2	480.9
72.5°	2419.0	1828.0	466.2	458.8	440.5	513.9	649.7	543.3	462.5	440.5	422.1
75°	1189.3	928.7	414.8	433.1	385.4	451.5	587.3	502.9	425.8	396.4	385.4
77.5°	546.9	469.9	374.4	396.4	341.4	389.1	535.9	458.8	378.1	334.0	323.0
80°	297.3	293.7	315.7	330.4	286.3	341.4	473.5	400.1	319.4	271.6	257.0
82.5°	183.5	187.2	231.3	253.3	223.9	297.3	418.5	334.0	242.3	190.9	194.5
85°	95.4	106.5	154.2	168.9	146.8	220.2	315.7	223.9	135.8	99.1	99.1
87.5°	33.0	44.0	77.1	91.8	80.8	132.1	198.2	106.5	29.4	0.0	0.0
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)