

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: P572741

Luminaire Tested: **ARCH-S-PA2-110-730-U-T4W**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572741
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-PA2-110-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13647 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

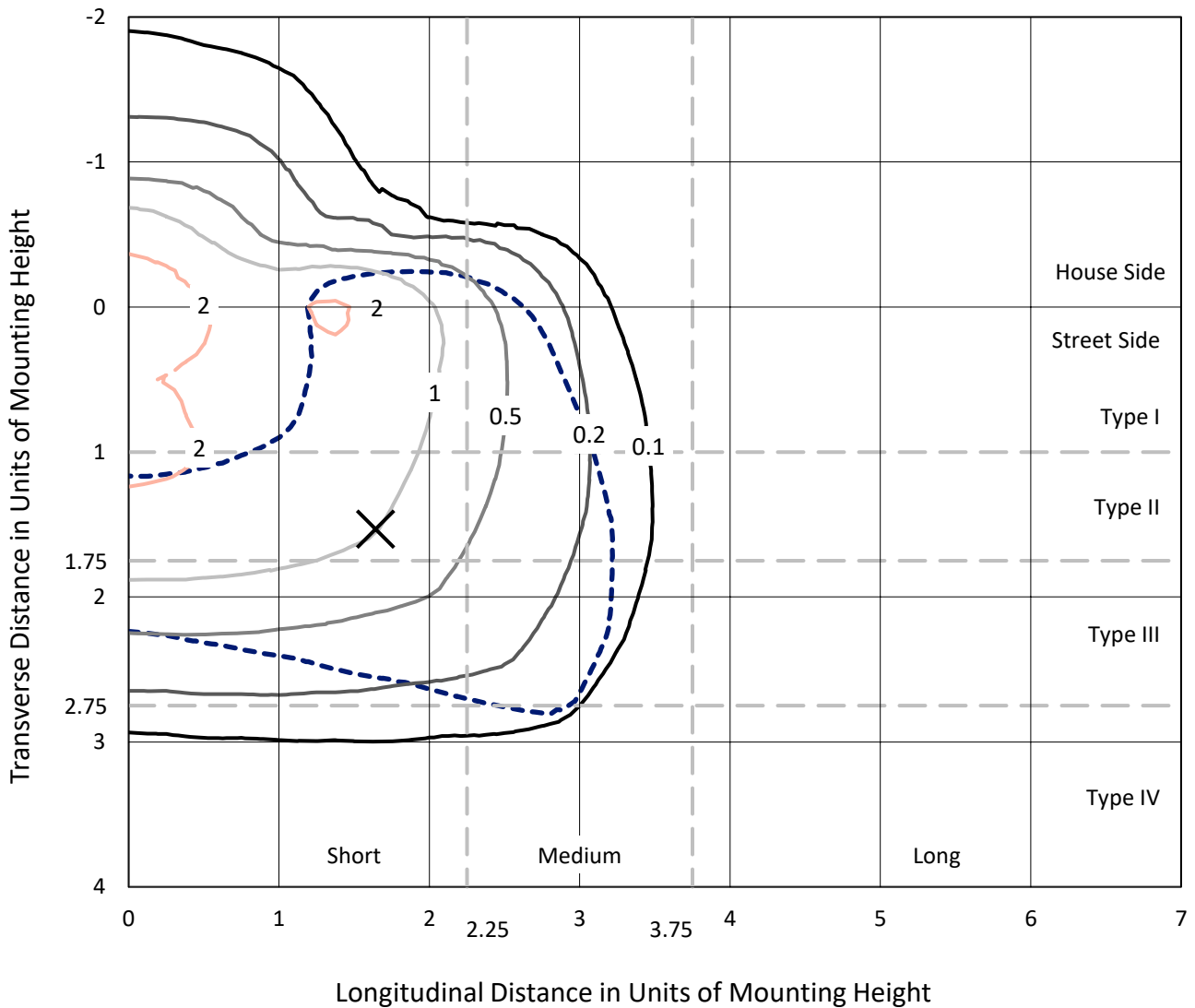
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

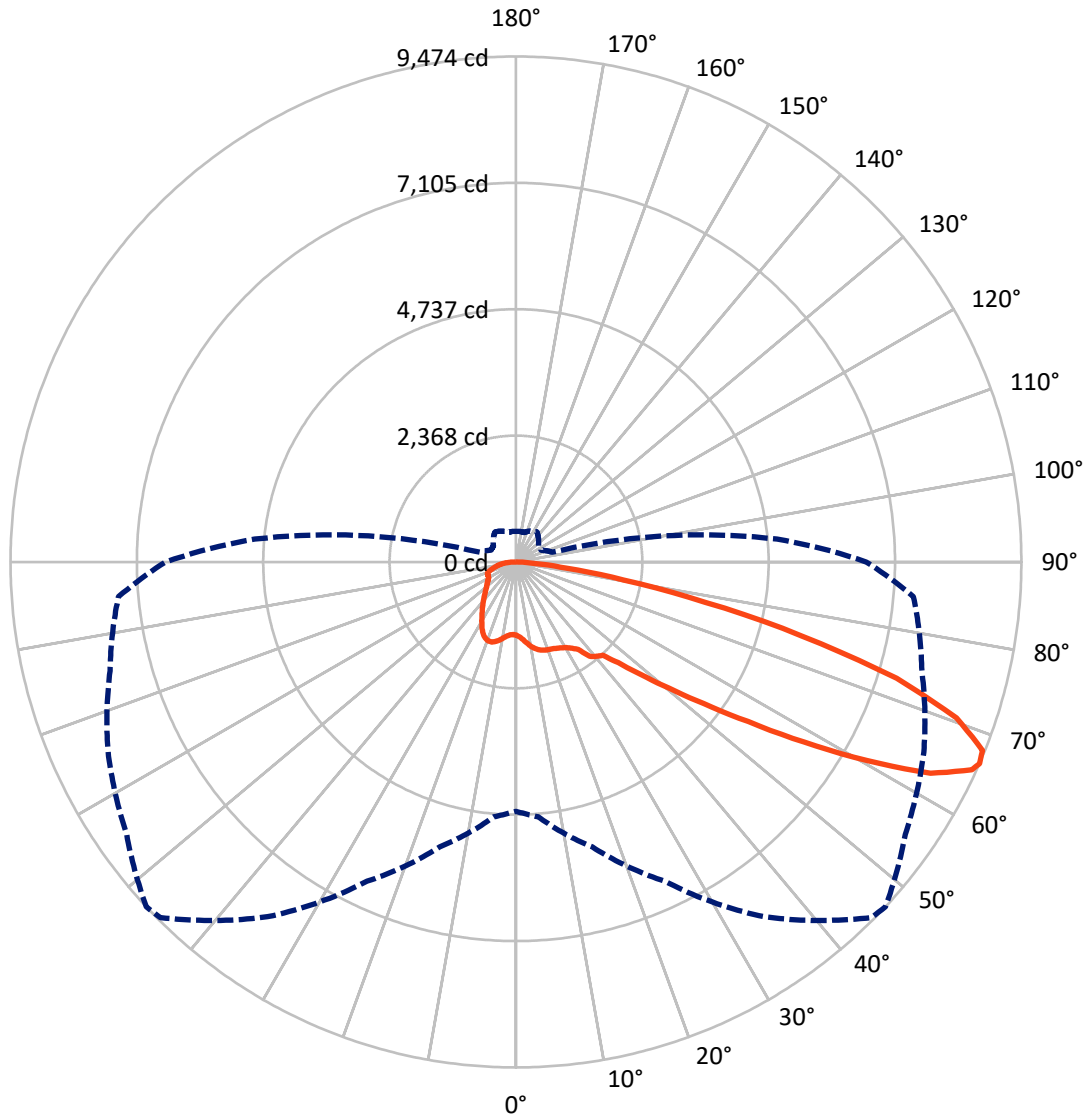
✕ Max cd
 - - - 1/2 Max cd



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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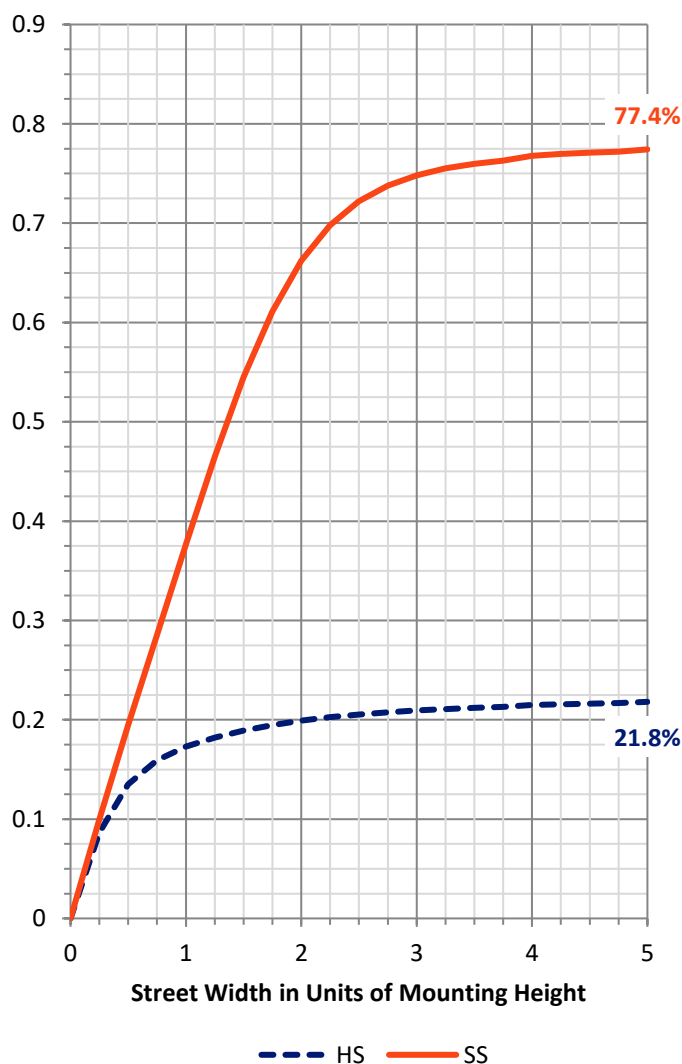
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3034.1	0.0	3034.1
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	10612.9	0.0	10612.9
	% Fixture	77.8	0.0	77.8
Total	Lumens	13647.0	0.0	13647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	1.0
10°-20°	458.1	3.4
20°-30°	763.9	5.6
30°-40°	1109.4	8.1
40°-50°	1696.6	12.4
50°-60°	3207.1	23.5
60°-70°	4144.0	30.4
70°-80°	1862.7	13.6
80°-90°	265.7	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°	13647.0	100.0
0°-180°	13647.0	100.0

Coefficient of Utilization

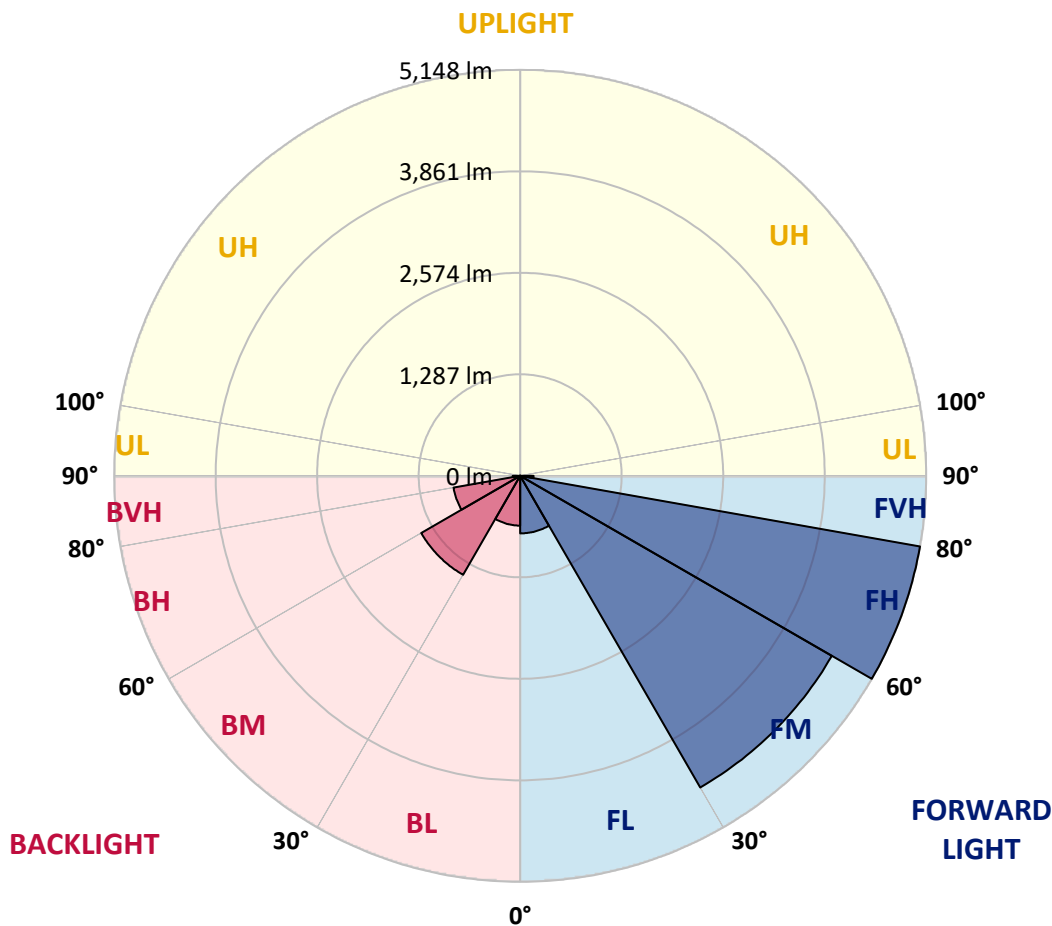


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	730.2	5.4			
FM (30°-60°)	4563.8	33.4			
FH (60°-80°)	5148.2	37.7			G3/7500
FVH (80°-90°)	170.7	1.3			G2/225
BL (0°-30°)	631.4	4.6	B2/1000		
BM (30°-60°)	1449.2	10.6	B2/2500		
BH (60°-80°)	858.5	6.3	B2/1000		G2/1000
BVH (80°-90°)	95.0	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°	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9
2.5°	1449.8	1438.7	1431.3	1427.6	1420.1	1405.3	1405.3	1401.6	1386.8	1379.4	1375.6
5°	1564.8	1557.3	1538.8	1524.0	1501.7	1472.1	1468.3	1446.1	1416.4	1394.2	1379.4
7.5°	1676.0	1668.6	1650.0	1627.8	1590.7	1553.6	1542.5	1512.8	1464.6	1431.3	1405.3
10°	1772.4	1761.3	1739.0	1709.4	1668.6	1627.8	1616.7	1583.3	1535.1	1486.9	1442.4
12.5°	1835.4	1828.0	1802.1	1765.0	1720.5	1679.7	1672.3	1642.6	1594.4	1542.5	1486.9
15°	1865.1	1861.4	1831.7	1794.6	1750.1	1716.8	1713.1	1687.1	1646.3	1594.4	1531.4
17.5°	1857.7	1854.0	1828.0	1790.9	1757.6	1739.0	1739.0	1720.5	1687.1	1642.6	1575.9
20°	1820.6	1820.6	1798.4	1772.4	1753.9	1750.1	1750.1	1746.4	1724.2	1687.1	1620.4
22.5°	1783.5	1783.5	1768.7	1750.1	1746.4	1761.3	1765.0	1772.4	1765.0	1735.3	1676.0
25°	1790.9	1787.2	1768.7	1746.4	1750.1	1783.5	1790.9	1809.5	1805.8	1783.5	1731.6
27.5°	1872.5	1868.8	1820.6	1776.1	1772.4	1813.2	1820.6	1846.6	1846.6	1828.0	1794.6
30°	2076.4	2083.9	1994.9	1883.6	1828.0	1854.0	1861.4	1891.1	1905.9	1913.3	1887.3
32.5°	2387.9	2376.8	2243.3	2061.6	1939.3	1913.3	1924.4	1950.4	2002.3	2017.1	1954.1
35°	2703.1	2710.5	2580.7	2350.8	2117.2	2020.8	2013.4	2050.5	2128.4	2061.6	1950.4
37.5°	2996.0	2984.9	2832.9	2584.4	2350.8	2239.6	2243.3	2228.5	2161.7	2028.2	1976.3
40°	3314.9	3285.2	3159.2	2840.3	2543.6	2358.3	2324.9	2198.8	2143.2	2087.6	2080.2
42.5°	3630.1	3633.8	3530.0	3214.8	2773.5	2443.5	2391.6	2261.8	2298.9	2287.8	2280.4
45°	4026.8	4026.8	3923.0	3630.1	3136.9	2762.4	2692.0	2536.2	2595.6	2640.1	2729.0
47.5°	4390.2	4368.0	4338.3	4089.9	3611.5	3177.7	3148.0	2970.1	3125.8	3263.0	3444.7
50°	4775.8	4746.2	4727.6	4575.6	4234.5	3808.1	3719.1	3533.7	3874.8	4130.6	4468.1
52.5°	5376.5	5324.6	5228.2	5142.9	5009.4	4516.3	4405.0	4267.8	4709.1	5031.7	5721.4
55°	5917.9	5873.4	5780.7	5843.7	5825.2	5376.5	5280.1	5150.3	5628.7	6021.7	6811.5
57.5°	6118.1	6121.8	6247.9	6585.3	6763.3	6503.7	6366.5	6236.8	6640.9	6822.6	7534.5
60°	6210.8	6199.7	6526.0	7074.8	7653.2	7731.1	7556.8	7289.8	7441.8	7453.0	8146.3
62.5°	6010.6	6040.2	6488.9	7278.7	8187.1	8747.0	8721.1	8253.9	8113.0	7957.2	8309.5
65°	5250.4	5291.2	5951.2	6915.3	8272.4	9362.6	9388.5	8843.4	8450.4	8016.6	7846.0
66°	4672.0	4794.4	5528.5	6600.1	8116.7	9425.6	9473.8	8906.5	8435.6	7875.7	7478.9
67.5°	3919.3	3911.9	4731.3	5906.8	7682.9	9370.0	9433.0	8817.5	8235.3	7460.4	6744.7
70°	2399.0	2473.2	3177.7	4408.7	6359.1	8676.6	8761.9	8190.8	7371.4	6318.3	4987.2
72.5°	1231.0	1353.4	1816.9	2866.2	4616.4	7171.2	7460.4	6878.2	6025.4	4571.9	3044.2
75°	652.6	645.2	856.5	1553.6	2947.8	5380.2	5532.2	5157.7	4164.0	2725.3	1549.9
77.5°	348.5	367.1	448.7	797.2	1620.4	3437.3	3630.1	3326.0	2373.1	1394.2	741.6
80°	237.3	248.4	304.1	448.7	878.8	1865.1	2043.1	1772.4	1242.2	660.0	348.5
82.5°	152.0	159.4	207.6	278.1	526.5	904.7	952.9	908.4	608.1	374.5	211.4
85°	92.7	96.4	126.1	178.0	330.0	367.1	381.9	385.6	341.1	244.7	114.9
87.5°	44.5	48.2	70.5	89.0	155.7	133.5	122.4	126.1	189.1	144.6	51.9
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°	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9	1371.9
2.5°	1371.9	1368.2	1360.8	1357.1	1360.8	1360.8	1360.8	1364.5	1371.9	1371.9	1375.6
5°	1371.9	1364.5	1357.1	1357.1	1364.5	1371.9	1379.4	1394.2	1401.6	1405.3	1405.3
7.5°	1390.5	1383.1	1375.6	1375.6	1386.8	1401.6	1416.4	1435.0	1453.5	1468.3	1468.3
10°	1427.6	1416.4	1409.0	1412.7	1431.3	1449.8	1468.3	1490.6	1509.1	1527.7	1527.7
12.5°	1468.3	1457.2	1446.1	1453.5	1479.5	1501.7	1520.3	1531.4	1549.9	1564.8	1564.8
15°	1509.1	1490.6	1486.9	1501.7	1527.7	1542.5	1549.9	1549.9	1557.3	1572.2	1572.2
17.5°	1553.6	1535.1	1531.4	1546.2	1568.5	1568.5	1553.6	1542.5	1538.8	1549.9	1553.6
20°	1598.1	1579.6	1579.6	1590.7	1587.0	1561.0	1535.1	1516.5	1501.7	1512.8	1516.5
22.5°	1653.7	1635.2	1627.8	1613.0	1579.6	1527.7	1486.9	1464.6	1453.5	1460.9	1468.3
25°	1709.4	1694.5	1676.0	1624.1	1546.2	1464.6	1412.7	1394.2	1397.9	1412.7	1420.1
27.5°	1779.8	1772.4	1727.9	1616.7	1486.9	1375.6	1323.7	1320.0	1334.9	1357.1	1368.2
30°	1865.1	1854.0	1776.1	1594.4	1405.3	1271.8	1234.7	1242.2	1264.4	1282.9	1294.1
32.5°	1924.4	1917.0	1798.4	1542.5	1305.2	1179.1	1149.5	1149.5	1160.6	1186.5	1197.7
35°	1943.0	1972.6	1813.2	1464.6	1186.5	1097.6	1067.9	1049.3	1049.3	1071.6	1079.0
37.5°	2006.0	2072.7	1820.6	1360.8	1090.1	1023.4	986.3	952.9	941.8	938.1	938.1
40°	2150.6	2228.5	1816.9	1227.3	997.4	949.2	904.7	867.7	838.0	797.2	800.9
42.5°	2402.7	2462.1	1805.8	1086.4	915.9	882.5	838.0	793.5	745.3	700.8	697.1
45°	2888.5	2799.5	1776.1	964.1	841.7	823.2	782.4	730.5	671.1	630.4	630.4
47.5°	3656.0	3411.3	1757.6	849.1	775.0	771.3	734.2	678.6	619.2	589.6	585.9
50°	4709.1	4256.7	1787.2	767.5	715.6	726.8	697.1	645.2	597.0	571.0	567.3
52.5°	5917.9	5165.2	1820.6	715.6	671.1	693.4	678.6	630.4	582.1	559.9	556.2
55°	6852.3	5903.0	1772.4	667.4	626.6	660.0	660.0	615.5	574.7	552.5	552.5
57.5°	7508.6	6199.7	1605.5	622.9	589.6	630.4	641.5	608.1	571.0	563.6	563.6
60°	7790.4	6184.8	1312.6	582.1	563.6	600.7	630.4	600.7	578.4	597.0	600.7
62.5°	7638.4	5862.3	1019.7	552.5	545.1	593.3	641.5	630.4	604.4	619.2	626.6
65°	6952.4	5294.9	767.5	526.5	522.8	597.0	671.1	648.9	585.9	589.6	593.3
66°	6566.8	4913.0	704.5	519.1	515.4	600.7	686.0	641.5	571.0	578.4	574.7
67.5°	5743.6	4312.3	619.2	504.3	500.6	600.7	704.5	626.6	552.5	563.6	552.5
70°	4212.2	3051.6	530.2	485.7	478.3	589.6	700.8	597.0	511.7	504.3	485.7
72.5°	2443.5	1846.6	470.9	463.5	445.0	519.1	656.3	548.8	467.2	445.0	426.4
75°	1201.4	938.1	419.0	437.5	389.3	456.1	593.3	508.0	430.1	400.5	389.3
77.5°	552.5	474.6	378.2	400.5	344.8	393.0	541.4	463.5	381.9	337.4	326.3
80°	300.3	296.6	318.9	333.7	289.2	344.8	478.3	404.2	322.6	274.4	259.6
82.5°	185.4	189.1	233.6	255.8	226.2	300.3	422.7	337.4	244.7	192.8	196.5
85°	96.4	107.5	155.7	170.6	148.3	222.5	318.9	226.2	137.2	100.1	100.1
87.5°	33.4	44.5	77.9	92.7	81.6	133.5	200.2	107.5	29.7	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)