

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: P573574

Luminaire Tested: **ARCH-S-PA2-90-750-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-750-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12682 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

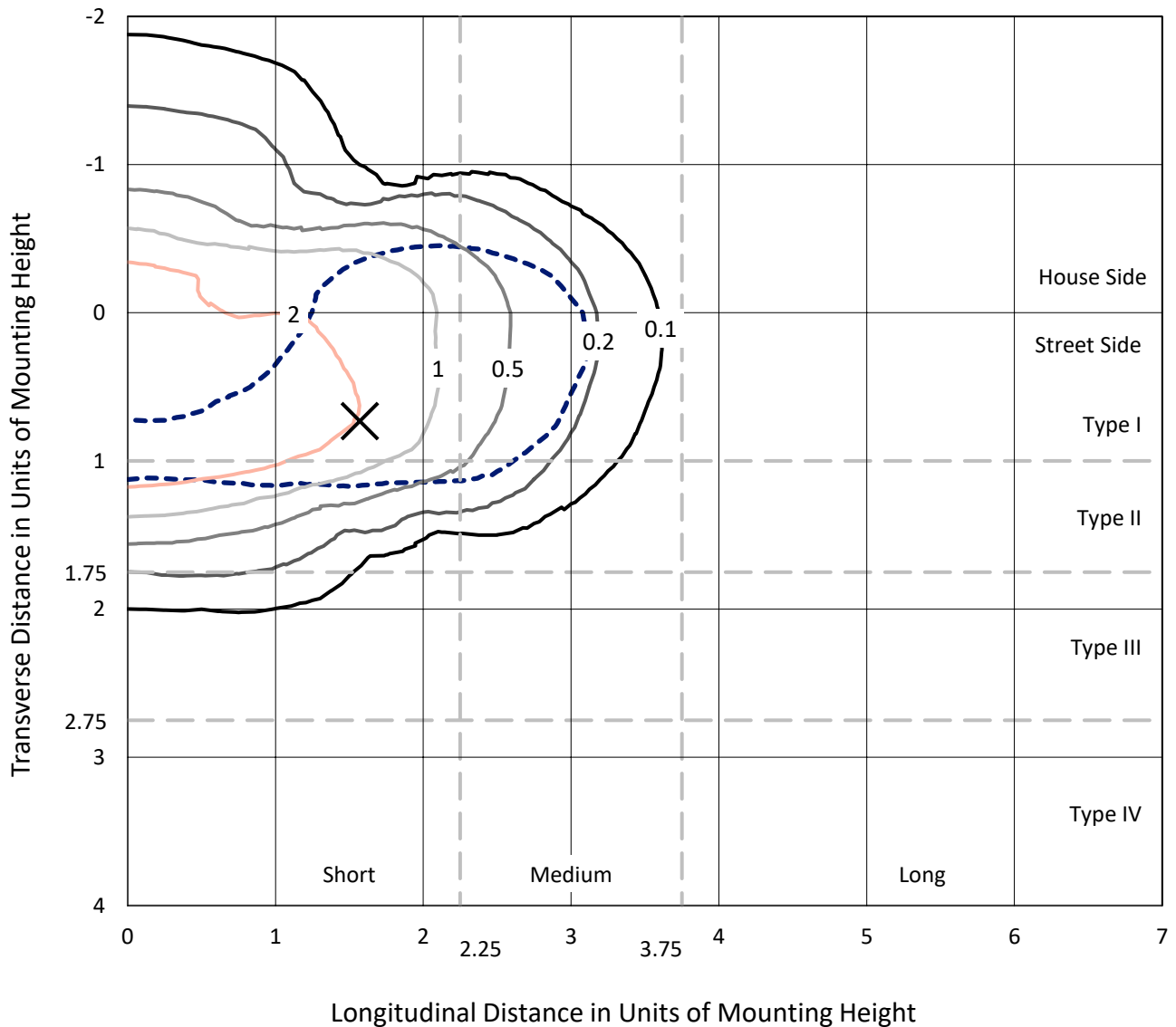
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

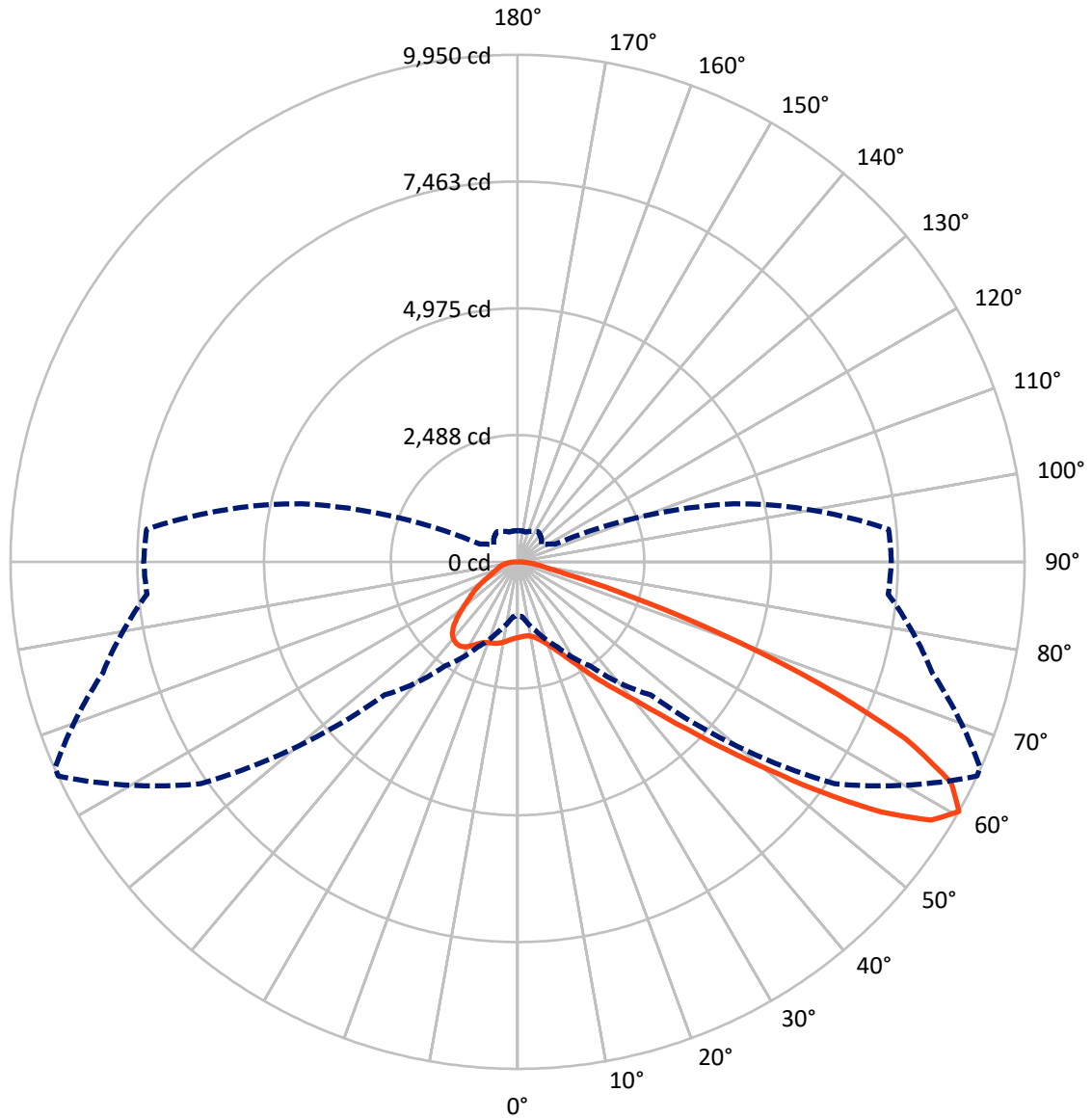
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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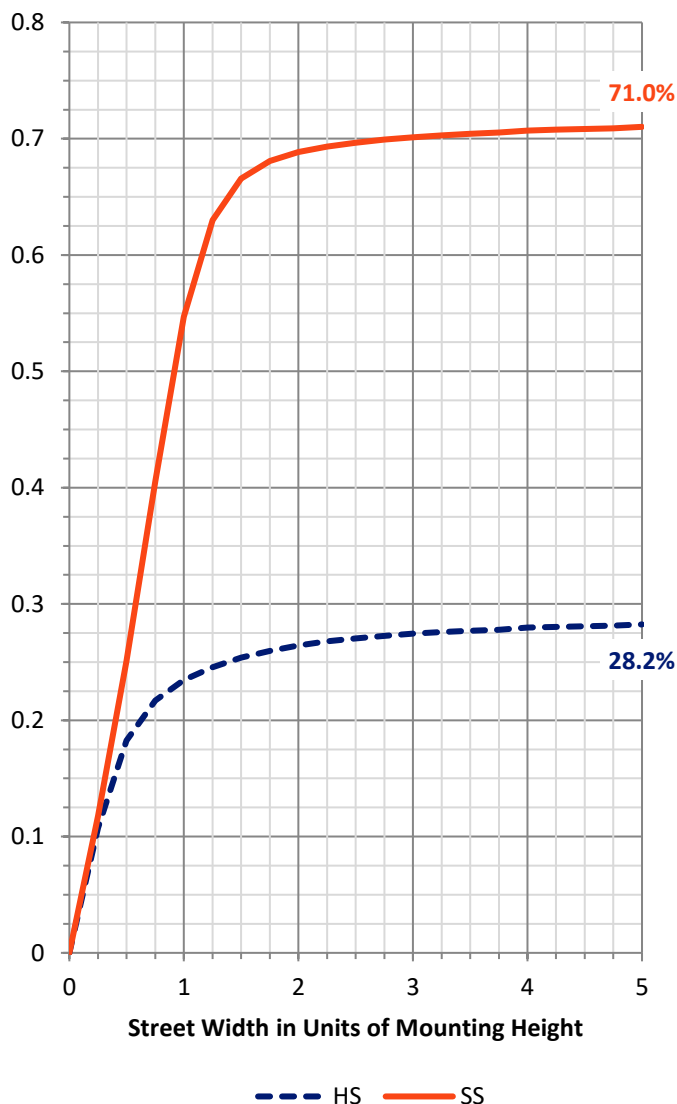
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3630.5	0.0	3630.5
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	9051.5	0.0	9051.5
	% Fixture	71.4	0.0	71.4
Total	Lumens	12682.0	0.0	12682.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.8	1.1
10°-20°	462.7	3.6
20°-30°	887.0	7.0
30°-40°	1540.4	12.1
40°-50°	2612.5	20.6
50°-60°	3253.2	25.7
60°-70°	2621.5	20.7
70°-80°	992.7	7.8
80°-90°	168.4	1.3
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°	12682.0	100.0
0°-180°	12682.0	100.0

Coefficient of Utilization



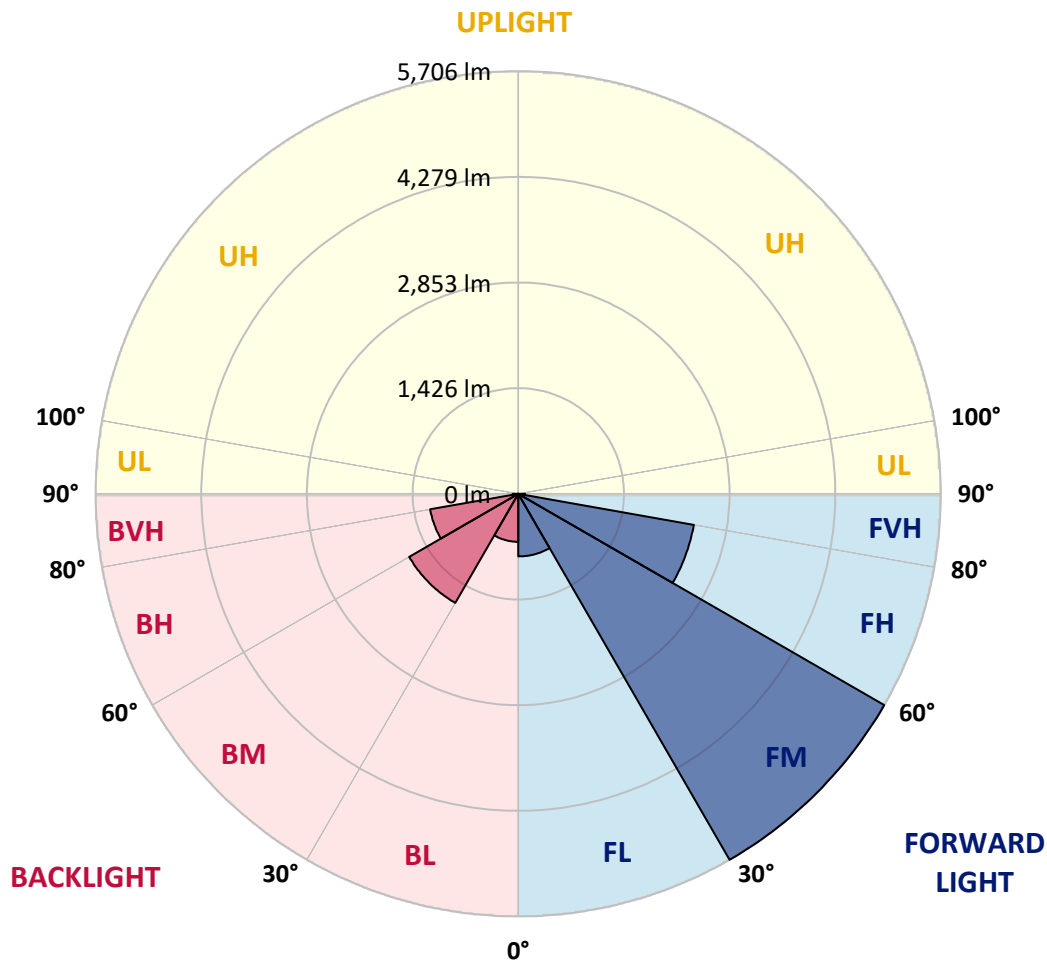
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	845.5	6.7			
FM (30°-60°)	5705.7	45.0			
FH (60°-80°)	2407.0	19.0			G2/5000
FVH (80°-90°)	93.4	0.7			G1/100
BL (0°-30°)	647.9	5.1	B2/1000		
BM (30°-60°)	1700.5	13.4	B2/2500		
BH (60°-80°)	1207.1	9.5	B3/2500		G3/2500
BVH (80°-90°)	75.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0
2.5°	1453.2	1453.2	1453.2	1456.7	1460.2	1463.6	1470.6	1470.6	1470.6	1474.1	1481.0
5°	1425.4	1421.9	1425.4	1428.9	1435.8	1442.8	1456.7	1463.6	1463.6	1477.6	1491.5
7.5°	1428.9	1421.9	1421.9	1425.4	1432.4	1439.3	1453.2	1463.6	1467.1	1484.5	1508.8
10°	1463.6	1453.2	1453.2	1456.7	1456.7	1463.6	1474.1	1488.0	1491.5	1508.8	1533.2
12.5°	1536.7	1526.2	1522.7	1512.3	1501.9	1508.8	1519.3	1522.7	1526.2	1536.7	1561.0
15°	1689.6	1672.2	1644.4	1623.6	1595.8	1578.4	1574.9	1578.4	1578.4	1581.8	1595.8
17.5°	1908.6	1887.8	1846.1	1800.9	1734.8	1679.2	1661.8	1647.9	1647.9	1637.5	1637.5
20°	2176.3	2145.1	2096.4	2030.3	1933.0	1832.2	1773.1	1741.8	1731.3	1714.0	1689.6
22.5°	2485.8	2464.9	2402.3	2301.5	2155.5	2019.9	1922.6	1853.0	1853.0	1811.3	1759.2
25°	2850.8	2812.6	2739.6	2621.3	2423.2	2228.5	2096.4	1995.6	1985.1	1919.1	1835.6
27.5°	3205.4	3181.1	3090.7	2934.2	2697.8	2471.9	2287.6	2169.4	2152.0	2047.7	1919.1
30°	3636.5	3608.7	3473.1	3254.1	3000.3	2743.0	2527.5	2374.5	2357.1	2214.6	2033.8
32.5°	4171.9	4078.0	3911.2	3660.8	3334.0	3045.5	2798.7	2635.3	2614.4	2451.0	2235.4
35°	4822.0	4742.1	4453.5	4189.3	3799.9	3421.0	3125.5	2909.9	2882.1	2687.4	2416.2
37.5°	5280.9	5242.7	5044.5	4835.9	4390.9	3879.9	3518.3	3219.3	3191.5	2934.2	2583.1
40°	5569.5	5531.3	5475.6	5416.5	5169.7	4592.6	3991.1	3584.4	3539.2	3295.8	2916.9
42.5°	5719.0	5687.7	5698.1	5816.3	5885.9	5795.5	4665.6	4071.1	4039.8	3744.3	3323.6
45°	5632.1	5611.2	5712.0	6024.9	6365.6	7033.1	5531.3	4710.8	4627.3	4276.2	3817.3
47.5°	5214.9	5152.3	5388.7	5920.6	6650.7	7624.2	6574.2	5500.0	5409.6	4905.5	4317.9
50°	4356.2	4338.8	4662.1	5336.6	6539.5	7857.1	7690.2	6431.7	6365.6	5583.4	4874.2
52.5°	3556.6	3549.6	3799.9	4418.7	5830.2	7693.7	8500.3	7540.7	7342.6	6264.8	5479.1
55°	2760.4	2756.9	2979.4	3441.8	4651.7	6925.4	8882.7	8670.6	8524.6	7008.8	6101.4
57.5°	1887.8	1863.5	2152.0	2503.1	3494.0	5486.1	8632.4	9564.1	9473.7	7798.0	6762.0
60°	1049.9	1084.7	1404.5	1839.1	2499.7	3695.6	7589.4	9950.0	9936.1	8427.3	7300.8
62.5°	744.0	757.9	893.5	1307.2	1644.4	2117.2	5854.6	9550.2	9661.4	8774.9	7606.8
65°	618.8	625.8	691.8	966.5	1202.9	1223.8	3650.4	8364.7	8510.7	8667.1	7672.8
67.5°	584.1	587.5	622.3	712.7	942.2	886.5	1630.5	6386.5	6695.9	7798.0	7241.7
70°	531.9	535.4	587.5	629.3	761.4	698.8	837.9	4241.4	4658.6	6164.0	6244.0
72.5°	455.4	465.9	507.6	591.0	618.8	580.6	646.6	2266.7	2680.4	4123.2	4822.0
75°	392.9	399.8	431.1	500.6	580.6	462.4	549.3	1032.5	1209.9	2419.7	3052.4
77.5°	316.4	319.8	365.0	410.2	486.7	375.5	427.6	618.8	650.1	1182.0	1380.2
80°	239.9	239.9	271.2	326.8	361.6	361.6	312.9	431.1	448.5	563.2	545.8
82.5°	184.3	180.8	205.1	229.5	260.7	302.5	236.4	285.1	292.0	340.7	292.0
85°	121.7	121.7	135.6	156.4	173.8	166.9	184.3	166.9	173.8	212.1	159.9
87.5°	52.1	52.1	73.0	69.5	76.5	80.0	90.4	80.0	80.0	97.3	73.0
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°	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0	1488.0
2.5°	1484.5	1488.0	1494.9	1498.4	1508.8	1512.3	1512.3	1519.3	1519.3	1526.2	1526.2
5°	1494.9	1505.4	1515.8	1526.2	1536.7	1540.1	1547.1	1550.6	1550.6	1557.5	1554.0
7.5°	1515.8	1526.2	1547.1	1557.5	1571.4	1578.4	1574.9	1578.4	1574.9	1578.4	1578.4
10°	1543.6	1557.5	1581.8	1595.8	1606.2	1609.7	1599.2	1588.8	1574.9	1574.9	1574.9
12.5°	1574.9	1585.3	1616.6	1627.0	1634.0	1623.6	1595.8	1574.9	1564.5	1567.9	1564.5
15°	1606.2	1616.6	1640.9	1651.4	1651.4	1620.1	1595.8	1588.8	1585.3	1588.8	1588.8
17.5°	1637.5	1647.9	1668.8	1668.8	1658.3	1634.0	1609.7	1585.3	1567.9	1557.5	1557.5
20°	1679.2	1679.2	1686.1	1686.1	1682.7	1644.4	1585.3	1526.2	1491.5	1470.6	1467.1
22.5°	1734.8	1720.9	1707.0	1707.0	1720.9	1620.1	1505.4	1415.0	1359.3	1352.4	1338.5
25°	1793.9	1762.6	1727.9	1752.2	1727.9	1557.5	1394.1	1272.4	1206.4	1182.0	1189.0
27.5°	1856.5	1807.8	1755.7	1825.2	1693.1	1435.8	1237.7	1102.1	1039.5	1022.1	1022.1
30°	1943.4	1870.4	1793.9	1901.7	1627.0	1296.8	1053.4	956.1	921.3	907.4	903.9
32.5°	2110.3	1999.0	1887.8	1971.2	1554.0	1116.0	928.2	869.1	827.4	813.5	824.0
35°	2259.8	2103.3	2030.3	2002.5	1439.3	970.0	851.8	799.6	764.8	747.5	747.5
37.5°	2395.4	2245.9	2190.3	2002.5	1289.8	879.6	803.1	761.4	716.2	702.3	702.3
40°	2690.9	2492.7	2395.4	1974.7	1105.6	834.4	778.8	730.1	691.8	677.9	674.5
42.5°	3097.6	2829.9	2607.4	1912.1	949.1	813.5	764.8	709.2	677.9	667.5	664.0
45°	3528.7	3292.3	2809.1	1800.9	848.3	792.7	761.4	702.3	664.0	653.6	650.1
47.5°	4050.2	3806.9	3042.0	1630.5	778.8	778.8	757.9	691.8	657.1	646.6	646.6
50°	4627.3	4425.7	3337.5	1435.8	726.6	768.3	750.9	691.8	653.6	643.2	639.7
52.5°	5218.4	5124.5	3646.9	1244.6	674.5	754.4	747.5	691.8	646.6	636.2	636.2
55°	5969.3	5892.8	4005.0	1102.1	632.7	726.6	747.5	684.9	636.2	629.3	629.3
57.5°	6706.3	6678.5	4283.2	976.9	601.4	691.8	737.0	674.5	625.8	622.3	622.3
60°	7335.6	7307.8	4401.4	820.5	570.2	657.1	716.2	657.1	608.4	611.9	611.9
62.5°	7725.0	7565.1	4314.4	677.9	538.9	625.8	691.8	636.2	591.0	601.4	598.0
65°	7794.5	7422.5	3977.2	566.7	504.1	591.0	664.0	611.9	566.7	591.0	587.5
67.5°	7283.5	6664.6	3344.5	493.7	469.3	552.8	632.7	577.1	538.9	573.6	563.2
70°	6177.9	5413.0	2475.3	438.1	434.6	507.6	591.0	535.4	500.6	518.0	504.1
72.5°	4599.5	3907.7	1602.7	396.3	396.3	455.4	531.9	483.2	448.5	452.0	438.1
75°	2868.2	2402.3	910.9	358.1	358.1	403.3	472.8	424.1	399.8	385.9	403.3
77.5°	1303.7	1056.9	479.8	319.8	323.3	344.2	406.8	361.6	333.8	312.9	323.3
80°	483.2	431.1	312.9	274.7	281.6	285.1	326.8	288.6	264.2	250.3	243.4
82.5°	250.3	232.9	212.1	219.0	229.5	219.0	253.8	215.5	187.7	177.3	149.5
85°	125.2	121.7	128.6	146.0	159.9	135.6	153.0	139.1	114.7	83.4	83.4
87.5°	48.7	52.1	48.7	66.1	73.0	62.6	69.5	48.7	34.8	17.4	13.9
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)