

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: P572793

Luminaire Tested: **ARCH-S-PA2-110-830-U-T3**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-38)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-110-830-U-T3
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 1105mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11950 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

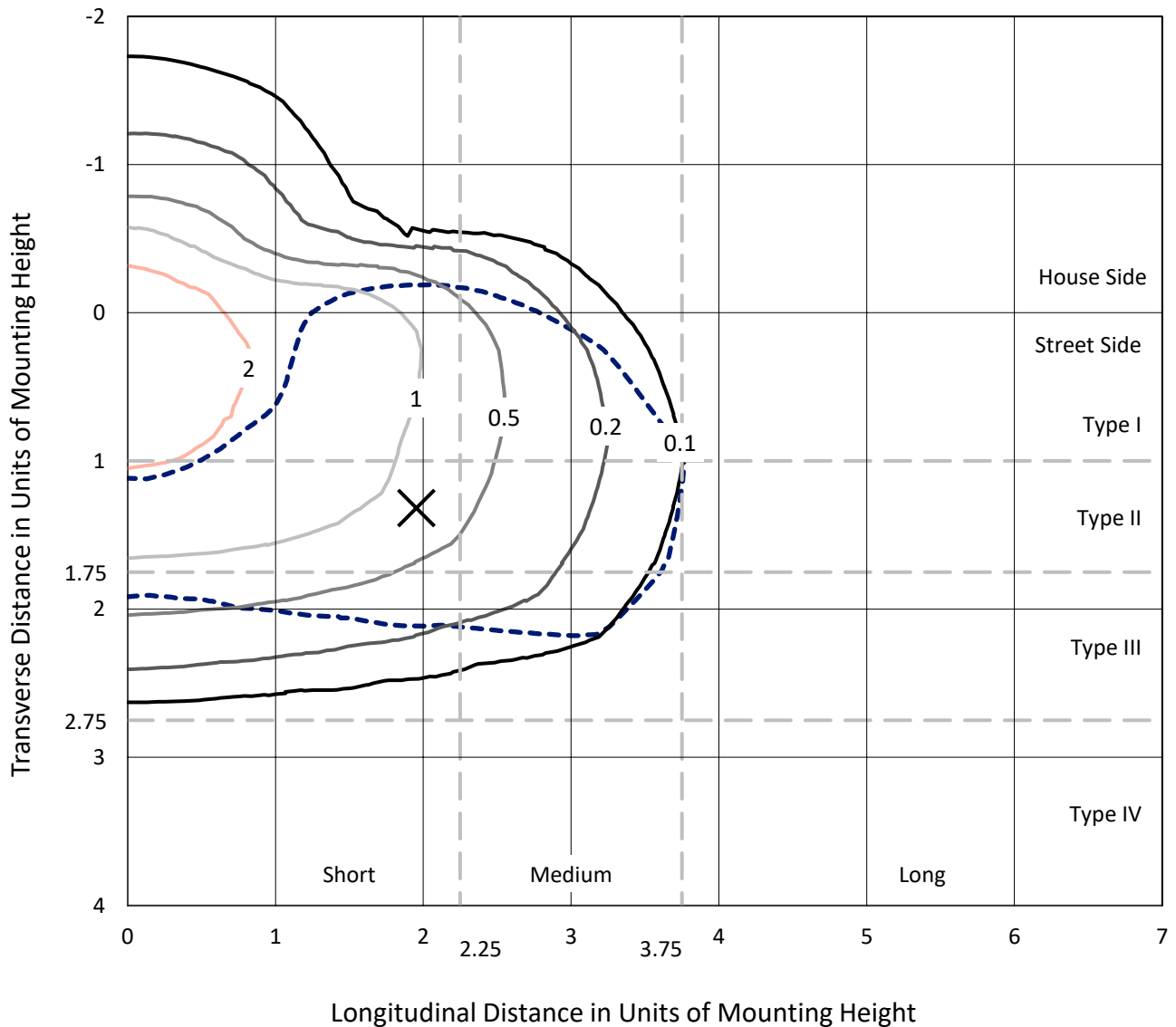
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572793
 CATALOG NUMBER: ARCH-S-PA2-110-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

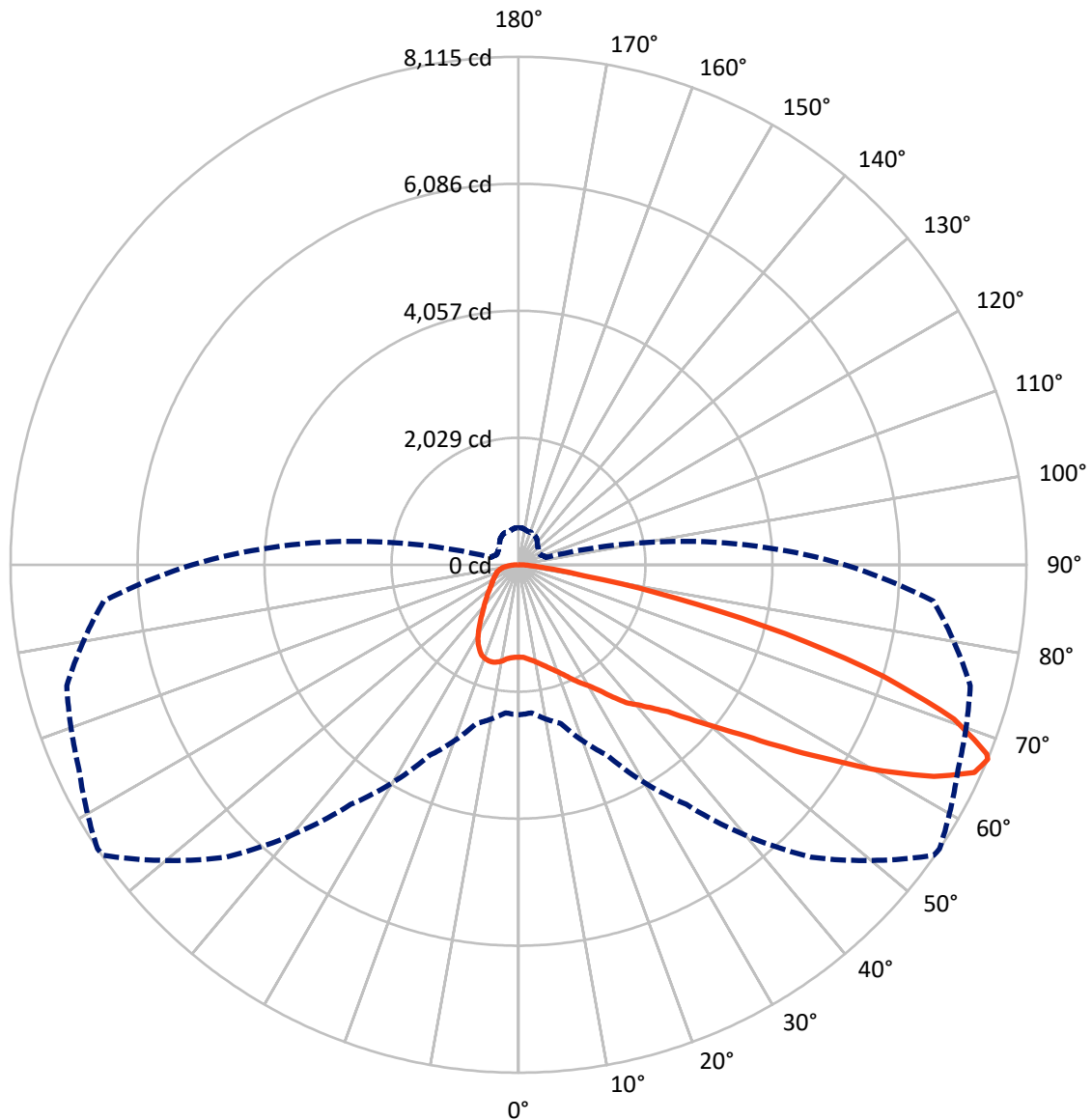
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P572793
CATALOG NUMBER: ARCH-S-PA2-110-830-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P572793
 CATALOG NUMBER: ARCH-S-PA2-110-830-U-T3

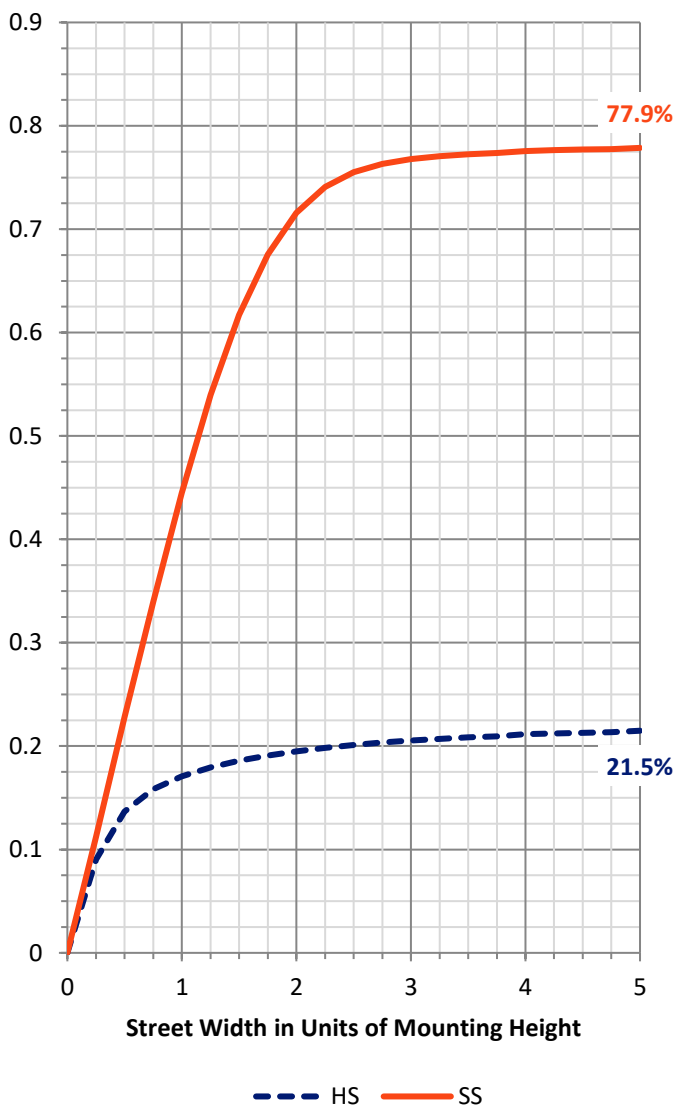
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2614.4	0.0	2614.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	9335.6	0.0	9335.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	11950.0	0.0	11950.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	1.2
10°-20°	465.5	3.9
20°-30°	810.1	6.8
30°-40°	1187.8	9.9
40°-50°	1738.0	14.5
50°-60°	2716.2	22.7
60°-70°	3228.4	27.0
70°-80°	1470.3	12.3
80°-90°	188.5	1.6
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°	11950.0	100.0
0°-180°	11950.0	100.0

Coefficient of Utilization



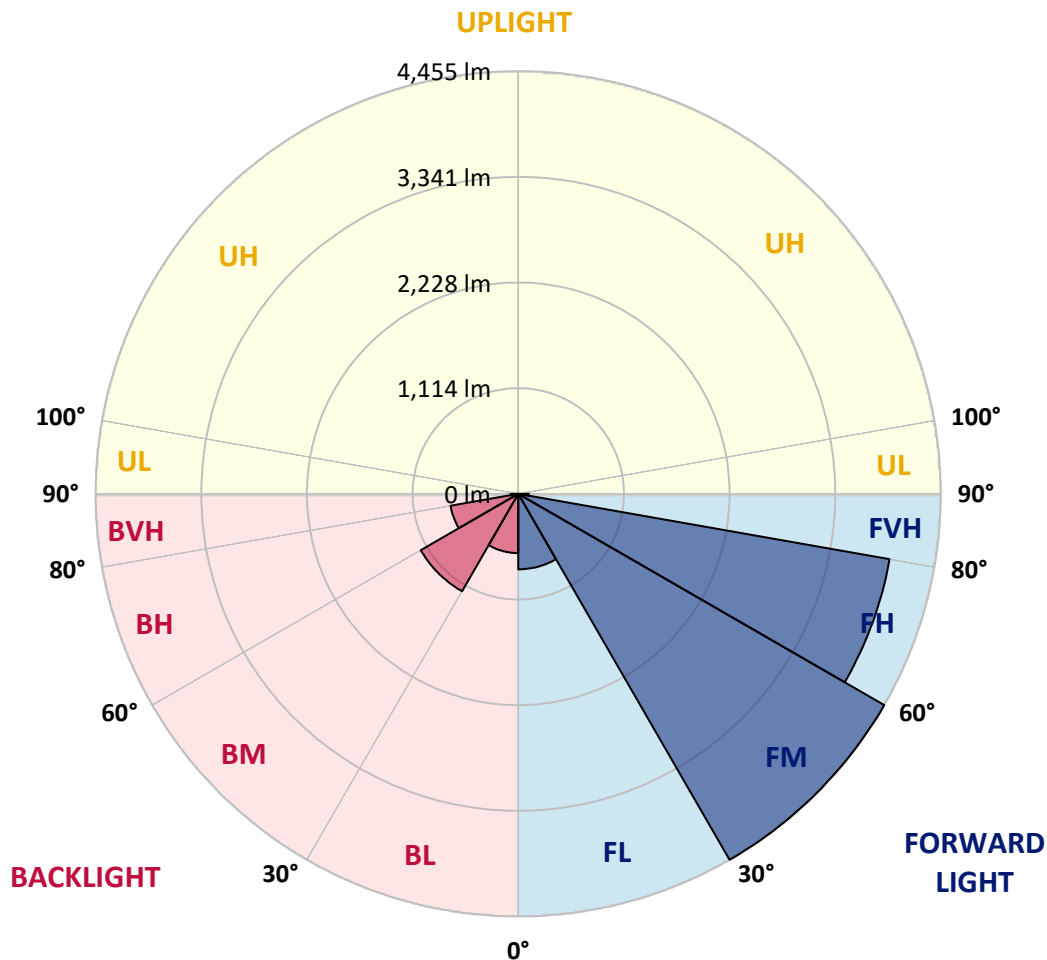
REPORT NUMBER: P572793
 CATALOG NUMBER: ARCH-S-PA2-110-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	796.0	6.7			
FM (30°-60°)	4455.3	37.3			
FH (60°-80°)	3974.4	33.3			G2/5000
FVH (80°-90°)	109.9	0.9			G2/225
BL (0°-30°)	624.8	5.2	B2/1000		
BM (30°-60°)	1186.8	9.9	B2/2500		
BH (60°-80°)	724.3	6.1	B2/1000		G2/1000
BVH (80°-90°)	78.6	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: P572793

CATALOG NUMBER: ARCH-S-PA2-110-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1475.4	1475.4	1475.4	1475.4	1475.4	1475.4	1475.4	1475.4	1475.4	1475.4	1475.4
2.5°	1498.0	1491.5	1488.3	1491.5	1488.3	1481.8	1485.1	1481.8	1478.6	1475.4	1475.4
5°	1517.4	1510.9	1507.7	1510.9	1514.2	1507.7	1507.7	1507.7	1498.0	1494.8	1488.3
7.5°	1530.4	1520.7	1520.7	1527.1	1533.6	1536.8	1543.3	1540.1	1530.4	1523.9	1510.9
10°	1572.4	1559.5	1559.5	1559.5	1565.9	1572.4	1578.9	1582.1	1578.9	1575.7	1565.9
12.5°	1637.1	1624.2	1624.2	1624.2	1624.2	1621.0	1630.7	1633.9	1640.4	1640.4	1624.2
15°	1724.5	1708.3	1701.8	1688.9	1685.7	1679.2	1692.1	1692.1	1701.8	1705.1	1688.9
17.5°	1808.6	1789.2	1782.7	1769.8	1756.8	1740.7	1753.6	1756.8	1776.3	1779.5	1753.6
20°	1896.0	1889.5	1879.8	1860.4	1837.7	1821.5	1834.5	1831.3	1847.4	1853.9	1821.5
22.5°	2009.2	1993.0	1986.6	1960.7	1934.8	1918.6	1918.6	1925.1	1941.3	1941.3	1892.7
25°	2145.1	2122.4	2106.3	2077.1	2044.8	2025.4	2028.6	2035.1	2057.7	2041.6	1967.1
27.5°	2313.3	2290.7	2268.0	2209.8	2177.4	2138.6	2135.4	2141.9	2177.4	2135.4	2038.3
30°	2471.9	2462.2	2442.8	2397.5	2345.7	2281.0	2251.9	2255.1	2281.0	2222.7	2099.8
32.5°	2607.8	2594.8	2585.1	2552.8	2517.2	2439.5	2400.7	2403.9	2400.7	2329.5	2174.2
35°	2769.5	2750.1	2743.6	2714.5	2669.2	2617.5	2601.3	2594.8	2575.4	2478.3	2271.3
37.5°	2924.8	2905.4	2895.7	2879.5	2843.9	2798.6	2798.6	2795.4	2756.6	2620.7	2368.3
40°	3109.2	3086.6	3057.5	3047.8	3018.7	2986.3	2960.4	2944.2	2876.3	2753.4	2556.0
42.5°	3332.5	3319.6	3303.4	3261.3	3216.0	3209.5	3135.1	3128.7	3080.1	3009.0	2821.3
45°	3652.8	3626.9	3604.3	3591.3	3536.3	3478.1	3374.6	3348.7	3348.7	3332.5	3131.9
47.5°	3976.3	3931.0	3963.4	3953.7	3940.8	3876.0	3675.5	3678.7	3672.2	3714.3	3588.1
50°	4193.1	4167.2	4257.8	4299.9	4390.5	4390.5	4102.5	4066.9	4092.8	4215.8	4054.0
52.5°	4361.4	4345.2	4448.7	4613.7	4882.3	4908.1	4610.5	4536.1	4571.7	4746.4	4681.7
55°	4497.2	4481.1	4600.8	4888.7	5319.0	5477.6	5196.1	5163.7	5092.6	5280.2	5299.6
57.5°	4578.1	4542.5	4723.7	5108.7	5674.9	6040.6	5882.0	5872.3	5707.3	5882.0	5969.4
60°	4455.2	4432.5	4681.7	5199.3	5962.9	6571.2	6687.6	6687.6	6393.2	6487.0	6593.8
62.5°	4057.2	4028.1	4290.2	4989.0	5998.5	7004.7	7486.8	7448.0	7053.2	7050.0	6956.2
65°	3300.1	3264.6	3559.0	4296.7	5548.8	7056.5	8027.1	8004.5	7548.3	7418.8	6978.8
67°	2397.5	2374.8	2627.2	3358.4	4675.2	6606.8	8095.0	8114.5	7745.6	7470.6	6652.0
67.5°	2151.6	2148.3	2358.6	3083.4	4419.6	6441.7	8049.8	8069.2	7742.4	7428.6	6522.6
70°	1003.0	1048.3	1245.6	1766.5	2979.8	5073.2	7305.6	7380.0	7328.3	6943.2	5493.8
72.5°	465.9	485.3	572.7	854.2	1601.5	3271.0	5920.8	6098.8	6325.3	5956.4	4351.7
75°	288.0	294.4	343.0	443.3	753.9	1572.4	4215.8	4409.9	4752.8	4481.1	2782.5
77.5°	226.5	229.7	262.1	317.1	440.0	676.2	2313.3	2556.0	3002.5	2649.8	1400.9
80°	168.2	174.7	200.6	245.9	310.6	346.2	983.6	1074.2	1449.5	1109.8	582.4
82.5°	122.9	129.4	155.3	177.9	216.8	220.0	401.2	423.8	621.2	449.7	252.4
85°	103.5	103.5	119.7	132.7	145.6	122.9	197.4	194.1	239.4	203.8	100.3
87.5°	48.5	51.8	113.2	84.1	71.2	51.8	58.2	61.5	74.4	80.9	38.8
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: P572793
 CATALOG NUMBER: ARCH-S-PA2-110-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1475.4	1475.4	1475.4	1475.4	1475.4	1475.4	1475.4	1475.4	1475.4	1475.4	1475.4
2.5°	1472.1	1472.1	1472.1	1475.4	1478.6	1478.6	1481.8	1481.8	1485.1	1488.3	1494.8
5°	1485.1	1485.1	1481.8	1485.1	1491.5	1494.8	1501.2	1507.7	1514.2	1520.7	1523.9
7.5°	1510.9	1507.7	1507.7	1507.7	1514.2	1520.7	1530.4	1536.8	1546.5	1549.8	1556.2
10°	1559.5	1553.0	1553.0	1556.2	1559.5	1549.8	1546.5	1543.3	1553.0	1559.5	1565.9
12.5°	1617.7	1611.2	1608.0	1598.3	1585.4	1565.9	1549.8	1536.8	1540.1	1546.5	1556.2
15°	1679.2	1666.2	1659.8	1637.1	1604.8	1562.7	1536.8	1520.7	1520.7	1520.7	1530.4
17.5°	1743.9	1731.0	1705.1	1663.0	1601.5	1543.3	1510.9	1481.8	1468.9	1465.7	1472.1
20°	1805.4	1786.0	1743.9	1679.2	1582.1	1504.5	1462.4	1413.9	1394.5	1381.5	1388.0
22.5°	1863.6	1837.7	1779.5	1679.2	1549.8	1446.2	1371.8	1307.1	1274.8	1268.3	1271.5
25°	1925.1	1892.7	1815.1	1659.8	1478.6	1358.9	1255.3	1187.4	1145.3	1138.9	1148.6
27.5°	1986.6	1938.0	1844.2	1608.0	1397.7	1239.2	1129.2	1064.5	1041.8	1028.9	1032.1
30°	2038.3	1993.0	1873.3	1536.8	1287.7	1100.0	999.7	970.6	954.5	948.0	948.0
32.5°	2106.3	2064.2	1892.7	1452.7	1158.3	973.9	909.2	886.5	873.6	857.4	860.6
35°	2190.4	2151.6	1883.0	1345.9	1035.3	889.7	838.0	805.6	776.5	753.9	750.6
37.5°	2303.6	2274.5	1834.5	1216.5	922.1	828.3	776.5	734.4	692.4	656.8	650.3
40°	2491.3	2423.3	1763.3	1074.2	844.4	779.7	718.3	666.5	614.7	575.9	566.2
42.5°	2730.7	2588.3	1666.2	928.6	779.7	728.0	666.5	598.6	550.0	514.4	514.4
45°	3009.0	2766.3	1549.8	818.6	711.8	676.2	601.8	543.6	514.4	491.8	488.6
47.5°	3339.0	2944.2	1400.9	731.2	656.8	630.9	556.5	520.9	501.5	482.1	478.8
50°	3782.2	3183.7	1290.9	656.8	601.8	579.1	543.6	514.4	495.0	482.1	478.8
52.5°	4290.2	3491.0	1213.3	598.6	556.5	546.8	540.3	517.7	498.3	488.6	485.3
55°	4840.2	3869.6	1138.9	550.0	520.9	533.8	546.8	524.1	511.2	498.3	491.8
57.5°	5357.9	4189.9	1019.2	508.0	495.0	517.7	543.6	527.4	511.2	501.5	498.3
60°	5710.5	4351.7	854.2	469.1	469.1	495.0	533.8	511.2	495.0	498.3	498.3
62.5°	5823.8	4290.2	676.2	433.5	443.3	469.1	504.7	491.8	485.3	501.5	501.5
65°	5655.5	4041.1	540.3	404.4	417.4	436.8	488.6	501.5	520.9	556.5	559.7
67°	5215.5	3639.9	456.2	381.8	394.7	427.1	508.0	553.3	553.3	592.1	592.1
67.5°	5086.1	3504.0	443.3	375.3	391.5	427.1	517.7	566.2	553.3	598.6	598.6
70°	4134.9	2756.6	375.3	355.9	378.5	449.7	559.7	569.4	540.3	582.4	579.1
72.5°	3067.2	1993.0	343.0	336.5	352.7	423.8	556.5	546.8	504.7	517.7	508.0
75°	1896.0	1155.0	317.1	310.6	320.3	375.3	514.4	498.3	449.7	440.0	430.3
77.5°	915.6	585.6	271.8	281.5	291.2	326.8	453.0	436.8	394.7	372.1	368.8
80°	398.0	300.9	233.0	249.1	252.4	278.2	375.3	355.9	317.1	281.5	281.5
82.5°	197.4	168.2	184.4	207.1	200.6	223.2	294.4	262.1	233.0	194.1	187.7
85°	90.6	97.1	135.9	155.3	135.9	139.1	200.6	184.4	145.6	110.0	113.2
87.5°	32.4	45.3	77.7	93.8	67.9	64.7	106.8	77.7	45.3	12.9	16.2
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)