

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: P572934

Luminaire Tested: **ARCH-S-PA2-130-760-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572934  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-130-760-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11137 lumens  
Efficiency: N/A  
Efficacy: 84.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

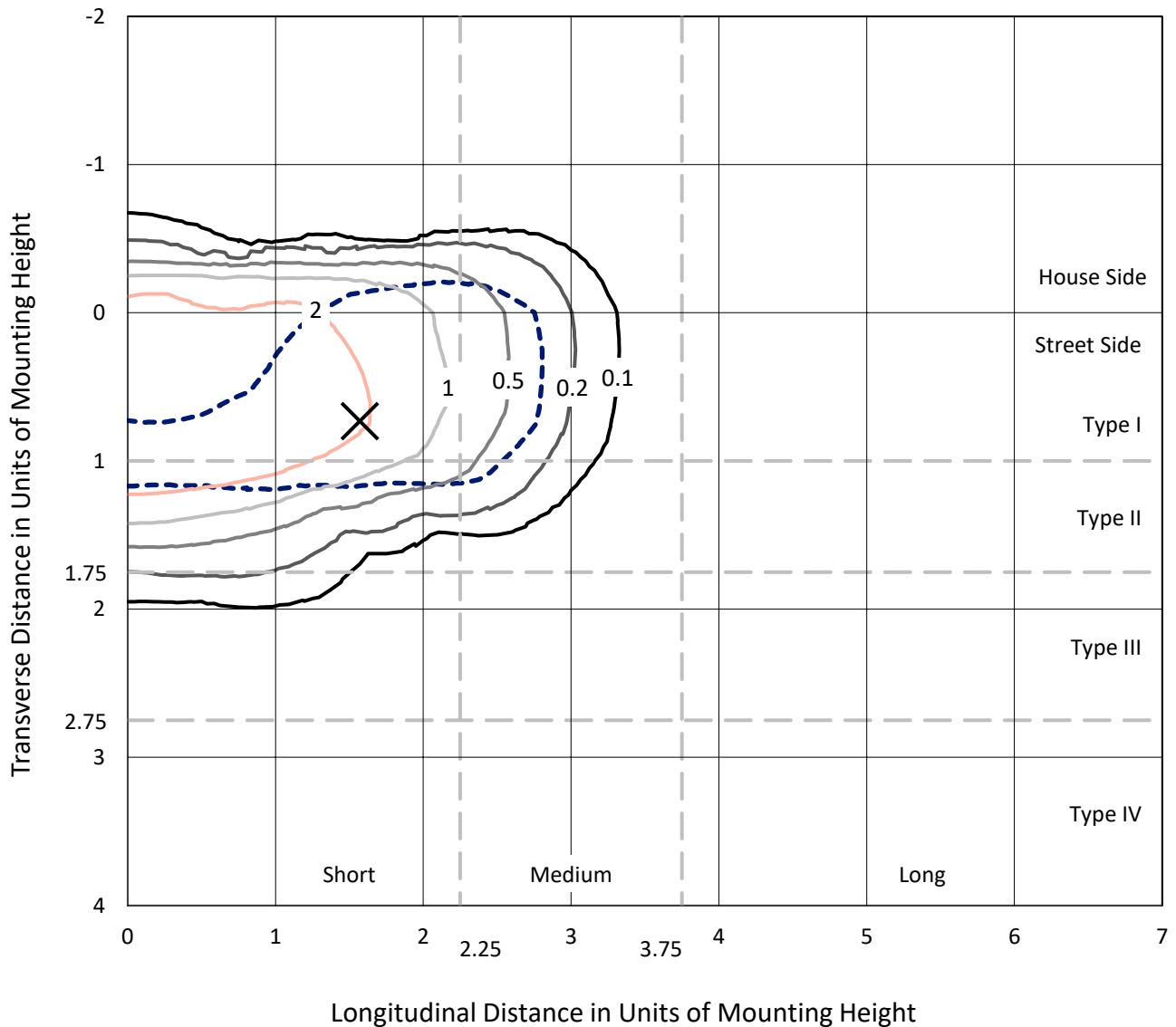
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

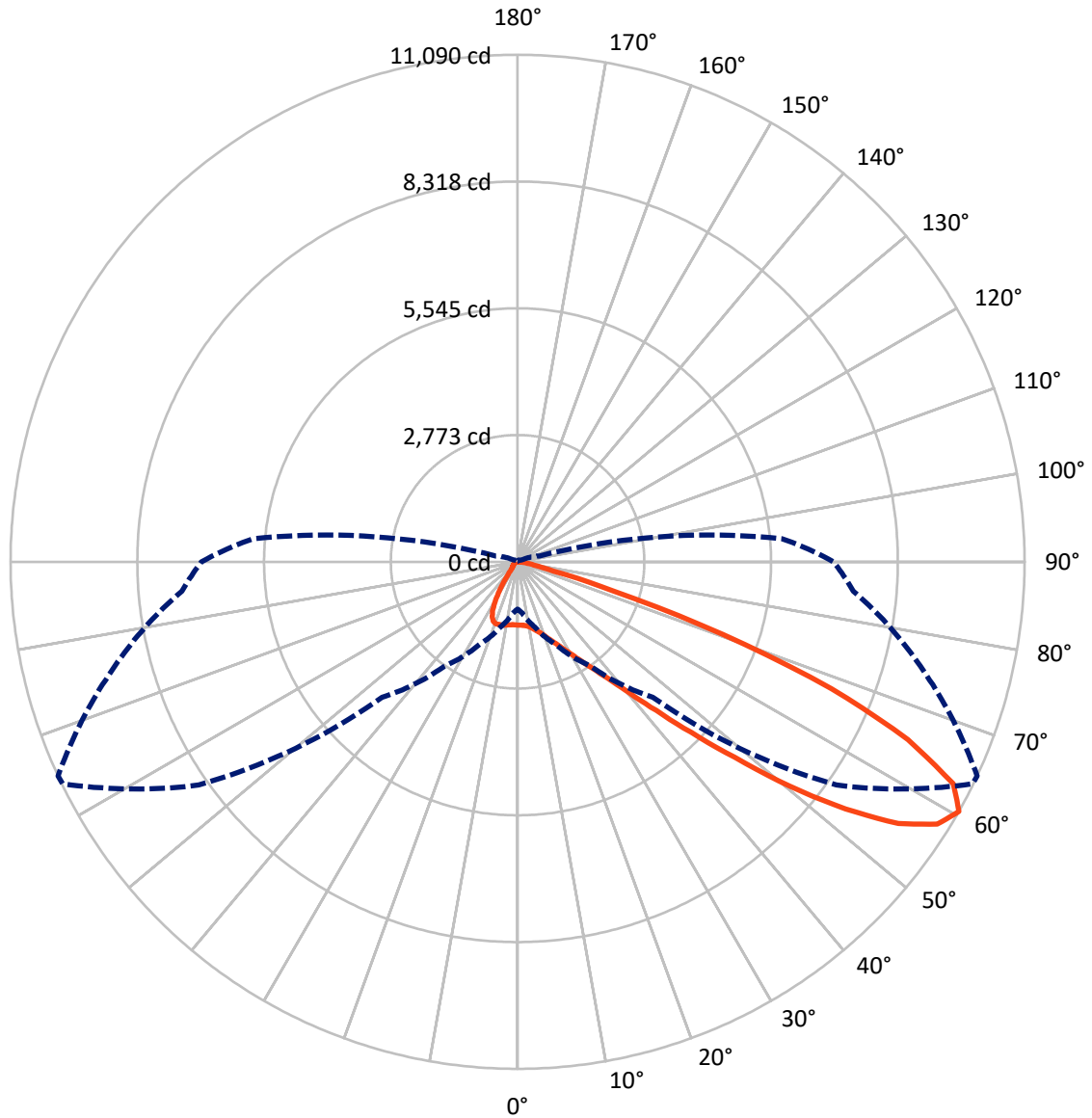
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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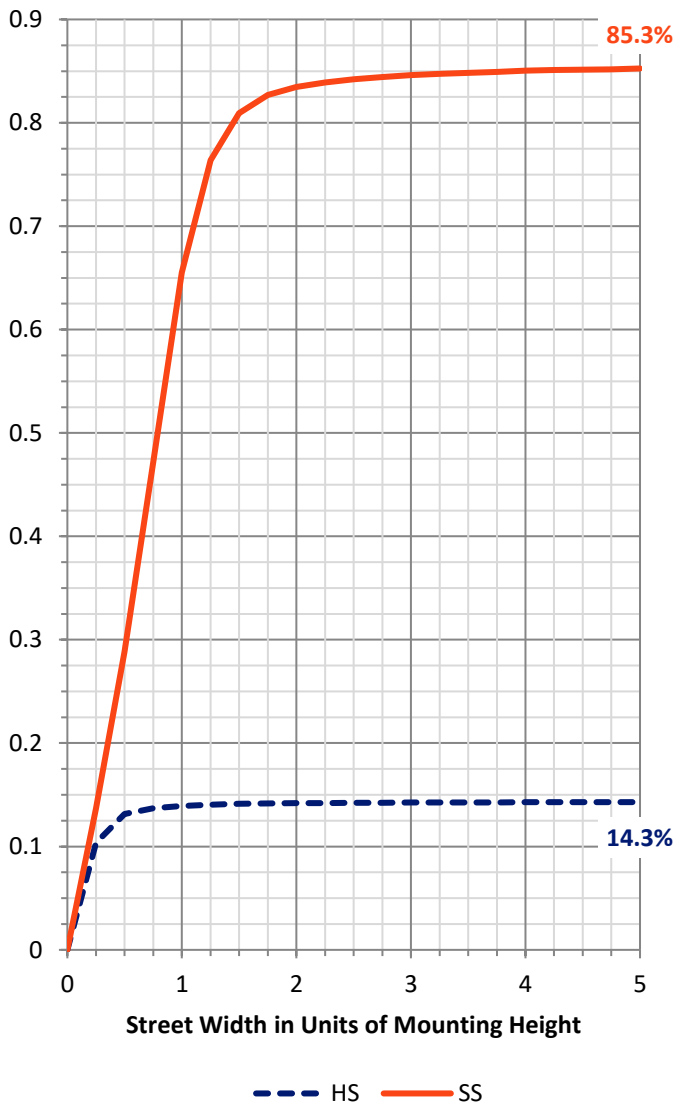
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1612.4	0.0	1612.4
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	9524.7	0.0	9524.7
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	11137.0	0.0	11137.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.1	1.2
10°-20°	372.0	3.3
20°-30°	631.9	5.7
30°-40°	1303.9	11.7
40°-50°	2622.4	23.5
50°-60°	3209.0	28.8
60°-70°	2270.2	20.4
70°-80°	547.1	4.9
80°-90°	49.4	0.4
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°	11137.0	100.0
0°-180°	11137.0	100.0

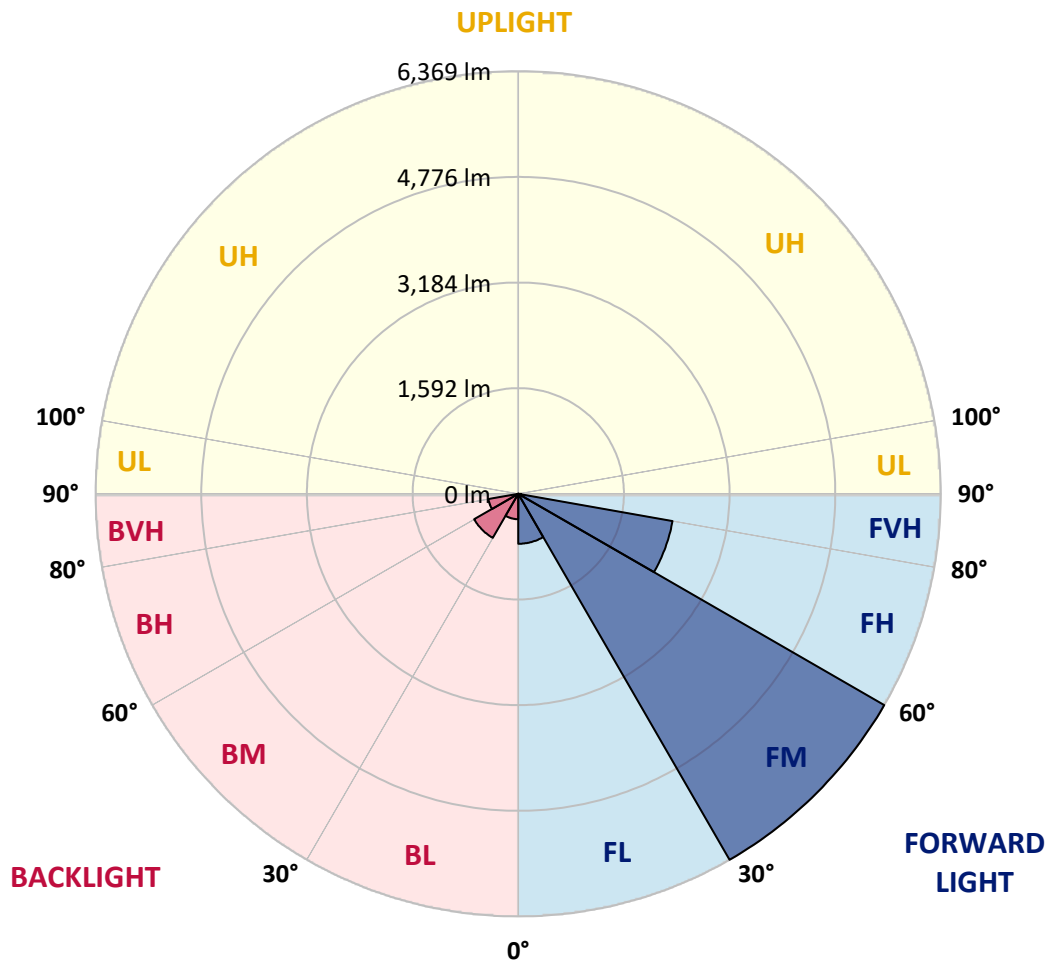


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.8	6.8			
FM (30°-60°)	6368.6	57.2			
FH (60°-80°)	2360.2	21.2			G2/5000
FVH (80°-90°)	43.0	0.4			G1/100
BL (0°-30°)	382.2	3.4	B1/500		
BM (30°-60°)	766.6	6.9	B1/1000		
BH (60°-80°)	457.0	4.1	B1/500		G1/500
BVH (80°-90°)	6.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1387.4	1387.4	1387.4	1387.4	1387.4	1387.4	1387.4	1387.4	1387.4	1387.4	1387.4
2.5°	1391.8	1387.4	1387.4	1387.4	1391.8	1391.8	1396.2	1387.4	1387.4	1387.4	1387.4
5°	1383.0	1378.6	1378.6	1383.0	1387.4	1387.4	1396.2	1396.2	1396.2	1400.6	1400.6
7.5°	1400.6	1391.8	1391.8	1396.2	1400.6	1400.6	1409.3	1413.7	1413.7	1422.5	1426.9
10°	1422.5	1418.1	1418.1	1426.9	1435.7	1435.7	1448.9	1448.9	1448.9	1457.6	1462.0
12.5°	1453.2	1448.9	1448.9	1462.0	1475.2	1484.0	1492.8	1497.2	1501.5	1501.5	1501.5
15°	1497.2	1492.8	1492.8	1505.9	1523.5	1545.4	1558.6	1558.6	1567.4	1563.0	1545.4
17.5°	1558.6	1554.2	1558.6	1567.4	1589.4	1611.3	1637.6	1642.0	1637.6	1628.9	1602.5
20°	1659.6	1646.4	1655.2	1677.2	1677.2	1690.3	1725.5	1738.6	1743.0	1716.7	1668.4
22.5°	1765.0	1765.0	1773.8	1800.1	1782.5	1800.1	1830.8	1852.8	1861.6	1839.6	1760.6
25°	1962.5	1971.3	1958.2	1949.4	1905.5	1914.2	1953.8	1997.7	1997.7	1980.1	1866.0
27.5°	2397.2	2388.4	2296.2	2168.9	2054.7	2063.5	2103.0	2160.1	2164.5	2125.0	1971.3
30°	3020.7	3029.4	2849.4	2559.7	2309.4	2243.5	2287.4	2353.3	2362.1	2296.2	2107.4
32.5°	3995.3	3920.7	3587.0	3200.7	2730.9	2493.8	2511.4	2581.6	2607.9	2550.9	2322.6
35°	5255.4	5079.8	4579.3	4100.7	3420.2	2941.6	2805.5	2880.2	2893.3	2862.6	2590.4
37.5°	6006.2	5865.7	5540.8	5106.1	4307.1	3538.7	3191.9	3266.5	3253.3	3191.9	2858.2
40°	6471.6	6392.5	6216.9	6015.0	5505.7	4478.3	3828.5	3767.0	3771.4	3683.6	3292.9
42.5°	6735.0	6664.7	6598.9	6651.6	6502.3	6181.8	4750.5	4469.5	4443.2	4276.3	3797.8
45°	6748.2	6642.8	6721.8	7029.2	7266.2	7692.1	5953.5	5303.7	5316.9	5040.3	4425.6
47.5°	6243.3	6159.8	6388.1	6989.6	7775.5	8680.0	7354.1	6445.2	6383.8	5839.3	5062.2
50°	5246.6	5242.2	5545.2	6396.9	7775.5	9189.3	8855.6	7784.3	7718.5	6673.5	5641.8
52.5°	4153.4	4236.8	4443.2	5251.0	7059.9	9141.0	9962.0	9167.3	8982.9	7415.5	6124.7
55°	3231.4	3200.7	3450.9	4008.5	5597.9	8306.8	10322.0	10256.2	10102.5	8074.1	6550.6
57.5°	1984.5	2098.6	2436.7	2932.8	4074.4	6533.0	9803.9	10919.1	10826.9	8688.8	6994.0
60°	1031.8	1119.6	1484.0	2002.1	2783.6	4188.5	8508.8	11072.8	11090.4	9184.9	7371.6
62.5°	649.8	645.4	812.2	1405.0	1791.3	2353.3	6607.7	10528.4	10695.2	9566.9	7731.6
65°	487.3	491.7	557.6	930.8	1216.2	1229.3	3920.7	9105.9	9382.5	9667.8	7854.6
67.5°	452.2	456.6	487.3	610.3	913.2	821.0	1725.5	7020.4	7406.7	8737.1	7380.4
70°	403.9	408.3	456.6	504.9	689.3	601.5	777.1	4228.0	4763.7	6339.9	5905.2
72.5°	316.1	324.9	382.0	478.6	513.7	456.6	540.0	1870.3	2182.1	3486.0	3380.7
75°	232.7	237.1	289.8	368.8	452.2	324.9	417.1	742.0	812.2	1308.4	1115.2
77.5°	162.4	162.4	202.0	276.6	377.6	228.3	298.6	399.5	408.3	487.3	320.5
80°	101.0	105.4	127.3	188.8	232.7	219.5	184.4	267.8	267.8	254.6	131.7
82.5°	57.1	61.5	87.8	127.3	158.1	149.3	118.5	153.7	158.1	162.4	74.6
85°	26.3	30.7	52.7	79.0	92.2	70.2	70.2	79.0	79.0	105.4	43.9
87.5°	4.4	4.4	26.3	35.1	30.7	35.1	35.1	43.9	43.9	52.7	22.0
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°	1387.4	1387.4	1387.4	1387.4	1387.4	1387.4	1387.4	1387.4	1387.4	1387.4	1387.4
2.5°	1383.0	1383.0	1383.0	1378.6	1378.6	1374.2	1365.4	1365.4	1365.4	1365.4	1369.8
5°	1400.6	1396.2	1391.8	1378.6	1369.8	1352.3	1334.7	1330.3	1317.1	1317.1	1321.5
7.5°	1422.5	1422.5	1409.3	1387.4	1365.4	1334.7	1304.0	1282.0	1260.1	1255.7	1251.3
10°	1462.0	1453.2	1440.1	1400.6	1365.4	1317.1	1268.8	1211.8	1167.9	1145.9	1137.1
12.5°	1492.8	1488.4	1462.0	1418.1	1361.0	1286.4	1176.6	1044.9	939.6	882.5	882.5
15°	1536.7	1527.9	1488.4	1426.9	1347.9	1172.3	948.3	746.4	632.2	570.8	562.0
17.5°	1580.6	1563.0	1514.7	1431.3	1290.8	965.9	663.0	478.6	399.5	368.8	360.0
20°	1633.3	1602.5	1532.3	1435.7	1150.3	702.5	430.3	320.5	289.8	276.6	281.0
22.5°	1703.5	1650.8	1549.8	1409.3	939.6	456.6	302.9	259.0	241.5	228.3	228.3
25°	1791.3	1716.7	1580.6	1334.7	680.5	307.3	241.5	215.1	197.6	188.8	184.4
27.5°	1870.3	1778.1	1611.3	1203.0	434.7	241.5	202.0	180.0	162.4	158.1	153.7
30°	1975.7	1848.4	1642.0	992.2	285.4	197.6	171.2	149.3	136.1	131.7	131.7
32.5°	2155.7	1984.5	1699.1	755.2	215.1	171.2	144.9	127.3	118.5	114.2	114.2
35°	2366.5	2151.3	1747.4	526.9	184.4	144.9	122.9	109.8	105.4	101.0	101.0
37.5°	2586.0	2348.9	1756.2	333.7	162.4	127.3	109.8	101.0	92.2	92.2	92.2
40°	2981.1	2695.8	1716.7	223.9	140.5	114.2	96.6	92.2	83.4	83.4	83.4
42.5°	3442.1	3117.2	1615.7	180.0	127.3	101.0	92.2	83.4	74.6	74.6	70.2
45°	4039.2	3595.8	1444.5	158.1	114.2	92.2	83.4	74.6	70.2	65.9	65.9
47.5°	4601.2	4140.2	1282.0	140.5	105.4	87.8	74.6	65.9	61.5	61.5	61.5
50°	5136.9	4557.3	1093.2	131.7	96.6	83.4	70.2	61.5	57.1	52.7	52.7
52.5°	5523.2	4886.6	917.6	118.5	87.8	74.6	65.9	57.1	48.3	43.9	43.9
55°	5953.5	5220.3	759.6	105.4	83.4	70.2	57.1	48.3	39.5	35.1	35.1
57.5°	6436.4	5545.2	614.7	96.6	79.0	61.5	48.3	39.5	30.7	26.3	26.3
60°	6915.0	5804.2	491.7	87.8	70.2	57.1	43.9	30.7	22.0	17.6	17.6
62.5°	7393.6	5979.8	377.6	79.0	65.9	48.3	35.1	22.0	13.2	8.8	8.8
65°	7591.1	5931.5	281.0	70.2	57.1	39.5	30.7	22.0	13.2	8.8	8.8
67.5°	7042.3	5334.4	197.6	70.2	52.7	39.5	26.3	17.6	8.8	4.4	4.4
70°	5496.9	4118.3	144.9	70.2	52.7	39.5	26.3	17.6	8.8	4.4	4.4
72.5°	3117.2	2291.8	109.8	61.5	48.3	35.1	26.3	17.6	8.8	4.4	4.4
75°	1110.8	737.6	83.4	57.1	43.9	30.7	26.3	17.6	8.8	4.4	4.4
77.5°	267.8	188.8	65.9	48.3	39.5	30.7	22.0	17.6	13.2	4.4	4.4
80°	109.8	79.0	52.7	39.5	30.7	26.3	22.0	17.6	8.8	4.4	4.4
82.5°	48.3	39.5	22.0	22.0	17.6	17.6	17.6	17.6	8.8	4.4	4.4
85°	22.0	17.6	8.8	8.8	4.4	4.4	4.4	8.8	8.8	4.4	4.4
87.5°	13.2	8.8	8.8	8.8	4.4	4.4	4.4	0.0	0.0	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)