

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: P573582

Luminaire Tested: **ARCH-S-PA2-90-760-U-T2U-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573582  
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-PA2-90-760-U-T2U-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 910mA 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: 8820 lumens  
Efficiency: N/A  
Efficacy: 95.5 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): 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

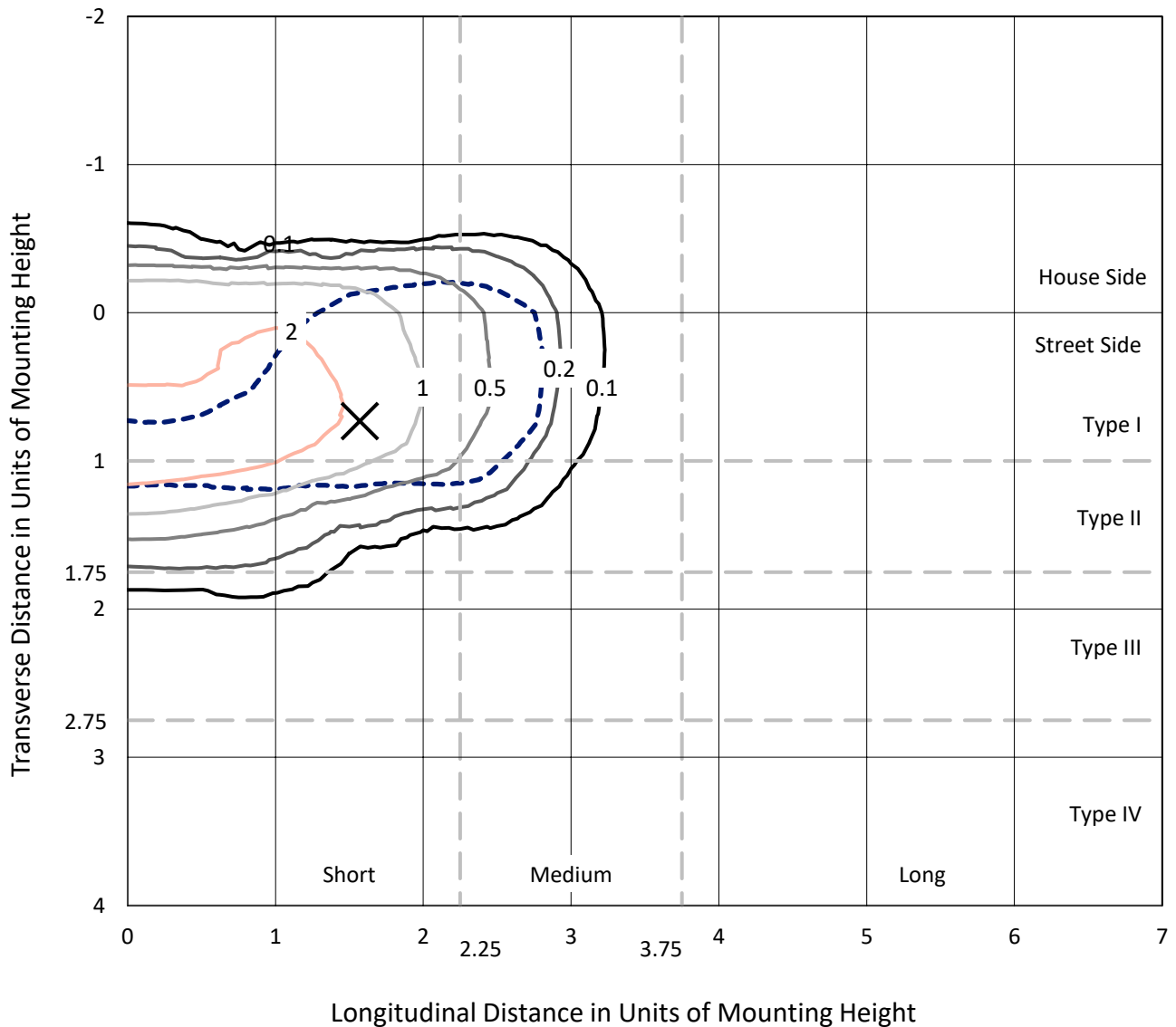




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### Iso-Footcandle Lines of Horizontal Illumination

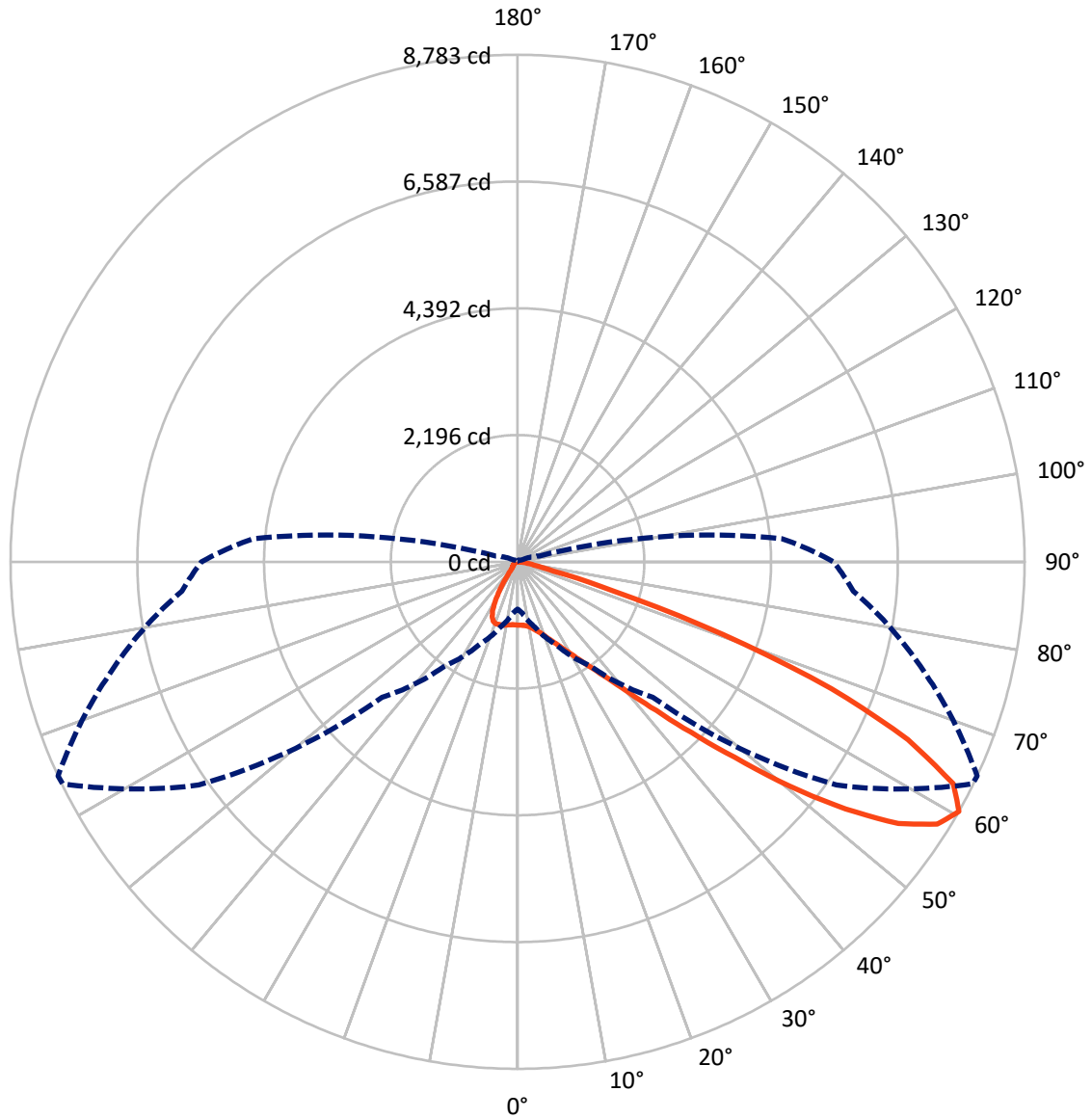
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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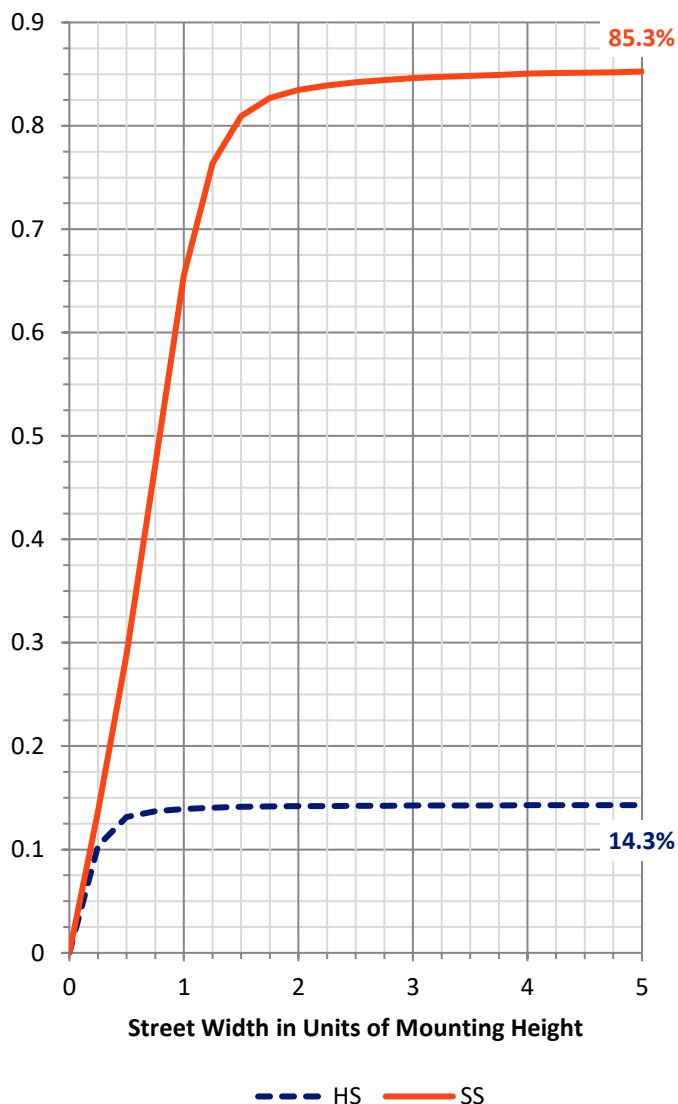
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1276.9	0.0	1276.9
	% Fixture	14.5	0.0	14.5
<b>Street Side</b>	Lumens	7543.1	0.0	7543.1
	% Fixture	85.5	0.0	85.5
<b>Total</b>	Lumens	8820.0	0.0	8820.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.8	1.2
10°-20°	294.6	3.3
20°-30°	500.5	5.7
30°-40°	1032.7	11.7
40°-50°	2076.8	23.5
50°-60°	2541.4	28.8
60°-70°	1797.9	20.4
70°-80°	433.3	4.9
80°-90°	39.1	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°	8820.0	100.0
0°-180°	8820.0	100.0

**Coefficient of Utilization**

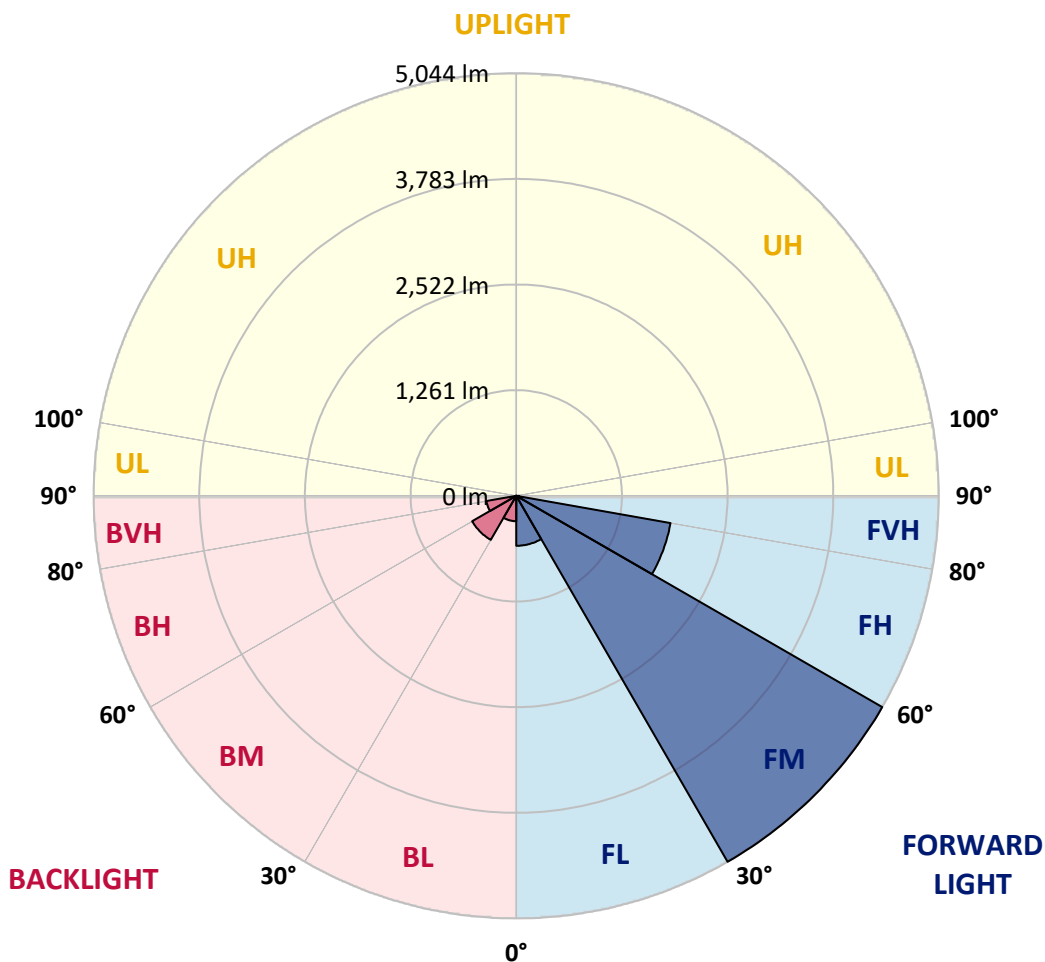


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.2	6.8			
FM (30°-60°)	5043.7	57.2			
FH (60°-80°)	1869.2	21.2			G2/5000
FVH (80°-90°)	34.0	0.4			G1/100
BL (0°-30°)	302.7	3.4	B1/500		
BM (30°-60°)	607.1	6.9	B1/1000		
BH (60°-80°)	362.0	4.1	B1/500		G1/500
BVH (80°-90°)	5.1	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°	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8
2.5°	1102.2	1098.8	1098.8	1098.8	1102.2	1102.2	1105.7	1098.8	1098.8	1098.8	1098.8
5°	1095.3	1091.8	1091.8	1095.3	1098.8	1098.8	1105.7	1105.7	1105.7	1109.2	1109.2
7.5°	1109.2	1102.2	1102.2	1105.7	1109.2	1109.2	1116.1	1119.6	1119.6	1126.6	1130.0
10°	1126.6	1123.1	1123.1	1130.0	1137.0	1137.0	1147.4	1147.4	1147.4	1154.4	1157.9
12.5°	1150.9	1147.4	1147.4	1157.9	1168.3	1175.2	1182.2	1185.7	1189.2	1189.2	1189.2
15°	1185.7	1182.2	1182.2	1192.6	1206.5	1223.9	1234.4	1234.4	1241.3	1237.8	1223.9
17.5°	1234.4	1230.9	1234.4	1241.3	1258.7	1276.1	1296.9	1300.4	1296.9	1290.0	1269.1
20°	1314.3	1303.9	1310.9	1328.2	1328.2	1338.7	1366.5	1376.9	1380.4	1359.5	1321.3
22.5°	1397.8	1397.8	1404.7	1425.6	1411.7	1425.6	1449.9	1467.3	1474.3	1456.9	1394.3
25°	1554.2	1561.2	1550.8	1543.8	1509.0	1516.0	1547.3	1582.1	1582.1	1568.2	1477.8
27.5°	1898.5	1891.5	1818.5	1717.7	1627.3	1634.2	1665.5	1710.7	1714.2	1682.9	1561.2
30°	2392.2	2399.2	2256.6	2027.1	1828.9	1776.8	1811.5	1863.7	1870.7	1818.5	1669.0
32.5°	3164.1	3105.0	2840.8	2534.8	2162.7	1975.0	1988.9	2044.5	2065.4	2020.2	1839.4
35°	4162.0	4023.0	3626.6	3247.6	2708.6	2329.6	2221.8	2281.0	2291.4	2267.0	2051.5
37.5°	4756.6	4645.4	4388.1	4043.8	3411.0	2802.5	2527.8	2586.9	2576.5	2527.8	2263.6
40°	5125.2	5062.6	4923.5	4763.6	4360.2	3546.6	3032.0	2983.3	2986.8	2917.3	2607.8
42.5°	5333.8	5278.2	5226.0	5267.7	5149.5	4895.7	3762.2	3539.6	3518.8	3386.7	3007.7
45°	5344.2	5260.8	5323.4	5566.8	5754.5	6091.8	4714.9	4200.3	4210.7	3991.7	3504.9
47.5°	4944.4	4878.3	5059.1	5535.5	6157.9	6874.2	5824.1	5104.3	5055.6	4624.5	4009.1
50°	4155.1	4151.6	4391.5	5066.1	6157.9	7277.5	7013.2	6164.8	6112.7	5285.1	4468.0
52.5°	3289.3	3355.4	3518.8	4158.6	5591.1	7239.2	7889.5	7260.1	7114.1	5872.8	4850.5
55°	2559.1	2534.8	2733.0	3174.6	4433.3	6578.6	8174.6	8122.4	8000.7	6394.3	5187.8
57.5°	1571.6	1662.0	1929.8	2322.7	3226.7	5173.9	7764.3	8647.5	8574.4	6881.1	5539.0
60°	817.1	886.7	1175.2	1585.5	2204.5	3317.1	6738.5	8769.2	8783.1	7274.0	5838.0
62.5°	514.6	511.1	643.3	1112.7	1418.6	1863.7	5233.0	8338.0	8470.1	7576.5	6123.1
65°	386.0	389.4	441.6	737.1	963.1	973.6	3105.0	7211.4	7430.5	7656.5	6220.5
67.5°	358.1	361.6	386.0	483.3	723.2	650.2	1366.5	5559.8	5865.8	6919.4	5844.9
70°	319.9	323.4	361.6	399.9	545.9	476.4	615.4	3348.4	3772.6	5020.9	4676.6
72.5°	250.3	257.3	302.5	379.0	406.8	361.6	427.7	1481.2	1728.1	2760.8	2677.3
75°	184.3	187.8	229.5	292.1	358.1	257.3	330.3	587.6	643.3	1036.2	883.2
77.5°	128.7	128.7	159.9	219.1	299.0	180.8	236.4	316.4	323.4	386.0	253.8
80°	80.0	83.4	100.8	149.5	184.3	173.9	146.0	212.1	212.1	201.7	104.3
82.5°	45.2	48.7	69.5	100.8	125.2	118.2	93.9	121.7	125.2	128.7	59.1
85°	20.9	24.3	41.7	62.6	73.0	55.6	55.6	62.6	62.6	83.4	34.8
87.5°	3.5	3.5	20.9	27.8	24.3	27.8	27.8	34.8	34.8	41.7	17.4
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°	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8	1098.8
2.5°	1095.3	1095.3	1095.3	1091.8	1091.8	1088.3	1081.4	1081.4	1081.4	1081.4	1084.8
5°	1109.2	1105.7	1102.2	1091.8	1084.8	1070.9	1057.0	1053.5	1043.1	1043.1	1046.6
7.5°	1126.6	1126.6	1116.1	1098.8	1081.4	1057.0	1032.7	1015.3	997.9	994.4	991.0
10°	1157.9	1150.9	1140.5	1109.2	1081.4	1043.1	1004.9	959.7	924.9	907.5	900.6
12.5°	1182.2	1178.7	1157.9	1123.1	1077.9	1018.8	931.9	827.5	744.1	698.9	698.9
15°	1217.0	1210.0	1178.7	1130.0	1067.5	928.4	751.0	591.1	500.7	452.0	445.1
17.5°	1251.7	1237.8	1199.6	1133.5	1022.3	765.0	525.0	379.0	316.4	292.1	285.1
20°	1293.5	1269.1	1213.5	1137.0	911.0	556.3	340.8	253.8	229.5	219.1	222.5
22.5°	1349.1	1307.4	1227.4	1116.1	744.1	361.6	239.9	205.1	191.2	180.8	180.8
25°	1418.6	1359.5	1251.7	1057.0	538.9	243.4	191.2	170.4	156.5	149.5	146.0
27.5°	1481.2	1408.2	1276.1	952.7	344.2	191.2	159.9	142.6	128.7	125.2	121.7
30°	1564.7	1463.8	1300.4	785.8	226.0	156.5	135.6	118.2	107.8	104.3	104.3
32.5°	1707.2	1571.6	1345.6	598.1	170.4	135.6	114.7	100.8	93.9	90.4	90.4
35°	1874.1	1703.8	1383.9	417.2	146.0	114.7	97.4	86.9	83.4	80.0	80.0
37.5°	2048.0	1860.2	1390.8	264.3	128.7	100.8	86.9	80.0	73.0	73.0	73.0
40°	2360.9	2134.9	1359.5	177.3	111.3	90.4	76.5	73.0	66.1	66.1	66.1
42.5°	2726.0	2468.7	1279.6	142.6	100.8	80.0	73.0	66.1	59.1	59.1	55.6
45°	3198.9	2847.7	1144.0	125.2	90.4	73.0	66.1	59.1	55.6	52.2	52.2
47.5°	3644.0	3278.9	1015.3	111.3	83.4	69.5	59.1	52.2	48.7	48.7	48.7
50°	4068.2	3609.2	865.8	104.3	76.5	66.1	55.6	48.7	45.2	41.7	41.7
52.5°	4374.1	3870.0	726.7	93.9	69.5	59.1	52.2	45.2	38.2	34.8	34.8
55°	4714.9	4134.2	601.5	83.4	66.1	55.6	45.2	38.2	31.3	27.8	27.8
57.5°	5097.4	4391.5	486.8	76.5	62.6	48.7	38.2	31.3	24.3	20.9	20.9
60°	5476.4	4596.7	389.4	69.5	55.6	45.2	34.8	24.3	17.4	13.9	13.9
62.5°	5855.4	4735.8	299.0	62.6	52.2	38.2	27.8	17.4	10.4	7.0	7.0
65°	6011.8	4697.5	222.5	55.6	45.2	31.3	24.3	17.4	10.4	7.0	7.0
67.5°	5577.2	4224.6	156.5	55.6	41.7	31.3	20.9	13.9	7.0	3.5	3.5
70°	4353.3	3261.5	114.7	55.6	41.7	31.3	20.9	13.9	7.0	3.5	3.5
72.5°	2468.7	1815.0	86.9	48.7	38.2	27.8	20.9	13.9	7.0	3.5	3.5
75°	879.7	584.1	66.1	45.2	34.8	24.3	20.9	13.9	7.0	3.5	3.5
77.5°	212.1	149.5	52.2	38.2	31.3	24.3	17.4	13.9	10.4	3.5	3.5
80°	86.9	62.6	41.7	31.3	24.3	20.9	17.4	13.9	7.0	3.5	3.5
82.5°	38.2	31.3	17.4	17.4	13.9	13.9	13.9	13.9	7.0	3.5	3.5
85°	17.4	13.9	7.0	7.0	3.5	3.5	3.5	7.0	7.0	3.5	3.5
87.5°	10.4	7.0	7.0	7.0	3.5	3.5	3.5	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)