

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: P572941

Luminaire Tested: **ARCH-S-PA2-130-827-U-T2R-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572941  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-130-827-U-T2R-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 80 CRI, 2700K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9168 lumens  
Efficiency: N/A  
Efficacy: 69.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

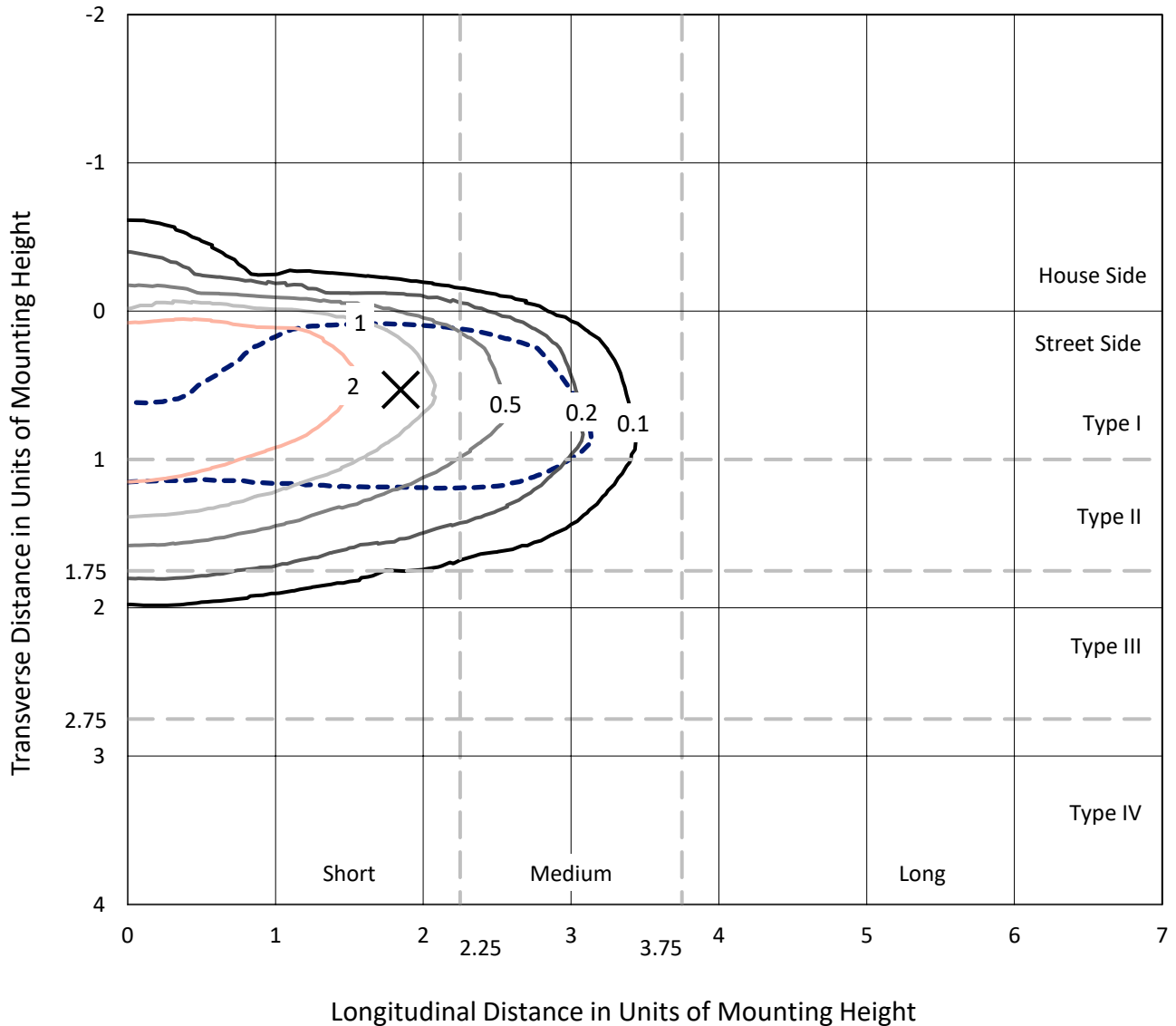
Input Watts (W): 131.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

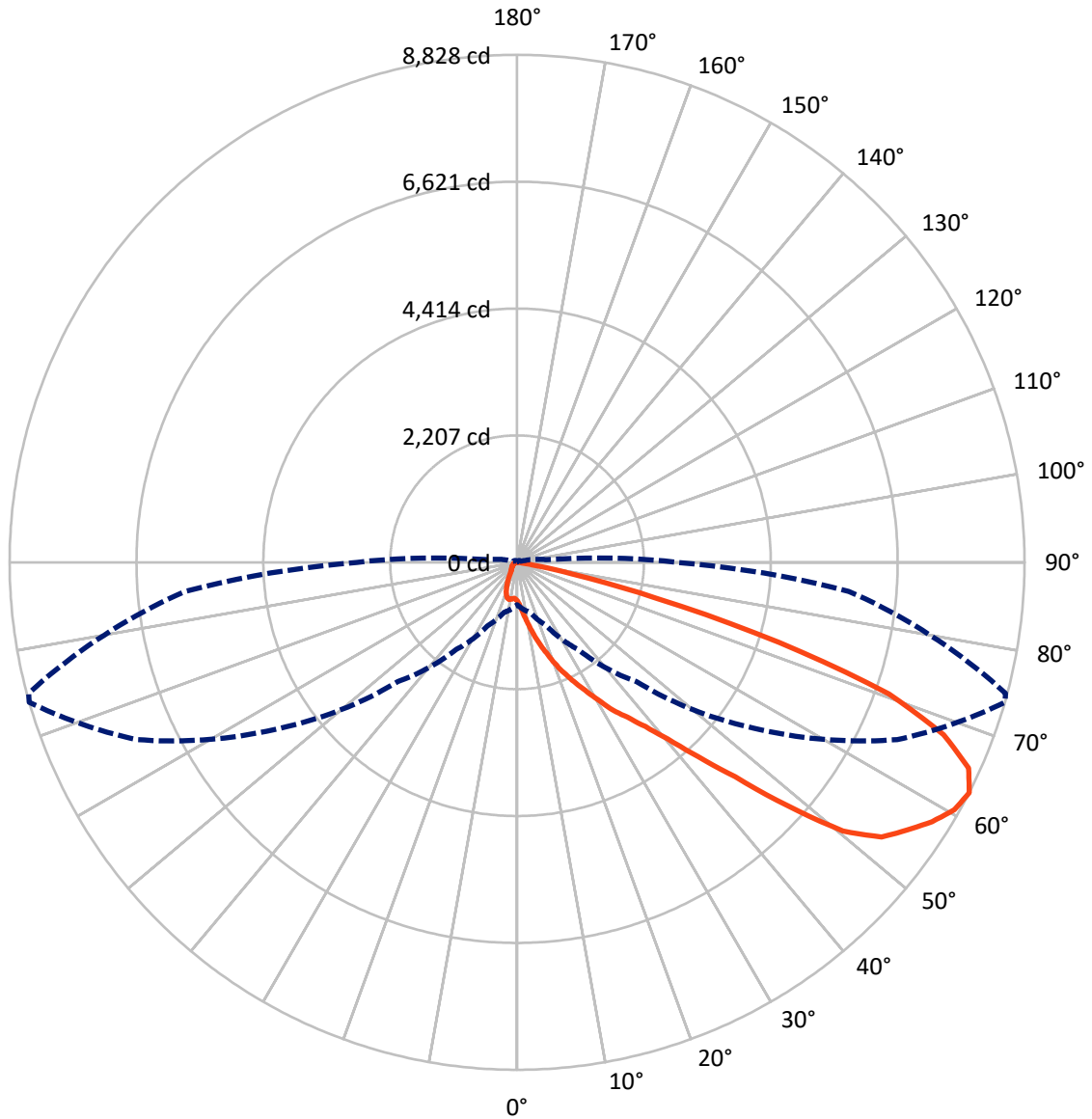
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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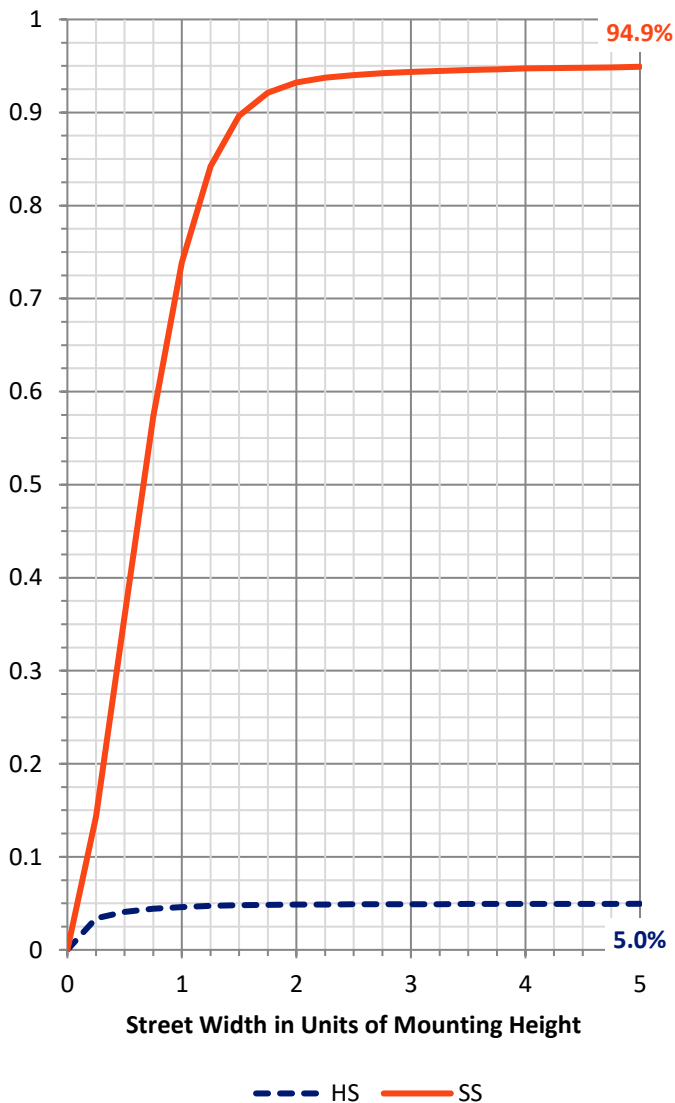
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	457.3	0.0	457.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	8710.7	0.0	8710.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	9168.0	0.0	9168.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.9	0.9
10°-20°	352.6	3.8
20°-30°	756.6	8.3
30°-40°	1326.9	14.5
40°-50°	2057.1	22.4
50°-60°	2371.5	25.9
60°-70°	1666.0	18.2
70°-80°	519.1	5.7
80°-90°	34.3	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°	9168.0	100.0
0°-180°	9168.0	100.0

**Coefficient of Utilization**



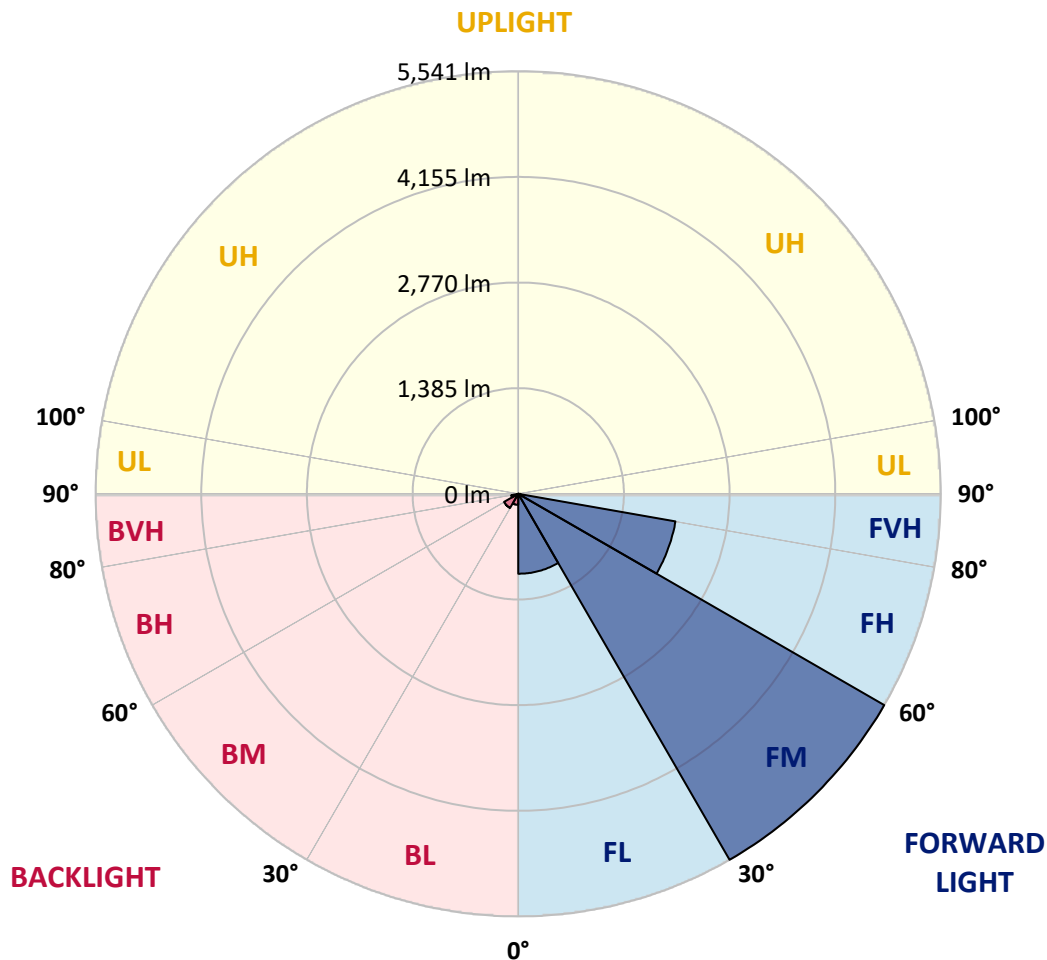
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.9	11.4			
FM (30°-60°)	5540.7	60.4			
FH (60°-80°)	2092.6	22.8			G2/5000
FVH (80°-90°)	29.6	0.3			G1/100
BL (0°-30°)	145.1	1.6	B1/500		
BM (30°-60°)	214.9	2.3	B0/220		
BH (60°-80°)	92.5	1.0	B0/110		G0/110
BVH (80°-90°)	4.7	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°	65°	74°	75°	85°
0°	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
2.5°	932.5	916.3	897.0	880.9	848.6	826.0	797.0	764.7	729.2	726.0	696.9
5°	1306.8	1258.4	1258.4	1216.4	1168.0	1080.9	1000.2	900.2	826.0	819.5	742.1
7.5°	1690.7	1652.0	1629.4	1564.9	1487.4	1390.6	1261.6	1093.8	958.3	935.7	809.9
10°	2048.9	2019.8	1977.9	1926.3	1858.5	1700.4	1539.1	1319.7	1103.5	1087.4	890.5
12.5°	2326.4	2290.9	2271.5	2248.9	2161.8	2036.0	1826.2	1548.8	1290.6	1255.1	971.2
15°	2536.1	2519.9	2500.6	2500.6	2455.4	2332.8	2116.6	1794.0	1471.3	1429.4	1074.4
17.5°	2703.9	2684.5	2681.3	2700.6	2687.7	2600.6	2397.3	2029.5	1658.5	1626.2	1180.9
20°	2891.0	2865.2	2865.2	2881.3	2878.1	2829.7	2652.2	2300.5	1877.9	1819.8	1303.5
22.5°	3155.6	3139.4	3126.5	3100.7	3081.4	3036.2	2881.3	2565.1	2087.6	2032.7	1429.4
25°	3510.5	3491.1	3433.1	3387.9	3304.0	3236.2	3104.0	2800.7	2300.5	2239.2	1552.0
27.5°	3855.7	3817.0	3762.2	3704.1	3610.5	3494.4	3329.8	3023.3	2523.2	2458.6	1677.8
30°	4220.3	4191.3	4123.6	4030.0	3913.8	3784.8	3587.9	3291.1	2778.1	2707.1	1813.3
32.5°	4510.7	4465.6	4404.3	4313.9	4194.5	4104.2	3891.2	3584.7	3071.7	2978.1	1955.3
35°	4743.1	4707.6	4626.9	4539.8	4449.4	4423.6	4191.3	3823.5	3307.2	3220.1	2106.9
37.5°	4891.5	4856.0	4788.2	4701.1	4665.6	4710.8	4559.1	4149.4	3623.4	3513.7	2281.2
40°	5007.6	4965.7	4910.8	4872.1	4859.2	4985.0	4968.9	4572.0	4039.7	3975.1	2519.9
42.5°	5091.5	5049.6	5014.1	5010.9	5094.7	5340.0	5520.7	5162.5	4620.4	4488.2	2826.5
45°	4985.0	4949.6	4968.9	5081.8	5285.1	5672.3	6188.6	5998.2	5320.6	5227.0	3316.9
47.5°	4688.2	4665.6	4752.7	4959.2	5336.7	5875.6	6833.9	6914.5	6320.8	6178.9	3952.5
50°	4223.6	4220.3	4359.1	4639.8	5175.4	5953.0	7159.7	7795.4	7346.9	7201.7	4468.8
52.5°	3594.4	3581.5	3784.8	4175.2	4794.7	5807.8	7221.1	8147.1	7940.6	7769.6	4794.7
55°	2881.3	2852.3	3094.3	3523.4	4233.3	5385.1	7056.5	8224.5	8224.5	8069.6	5036.7
57.5°	2026.3	2071.5	2271.5	2787.8	3539.5	4752.7	6650.0	8153.5	8511.7	8379.4	5362.6
60°	1277.7	1297.1	1516.5	1932.7	2684.5	3907.4	5924.0	7847.0	8740.8	8663.3	5623.9
62.5°	735.7	797.0	906.7	1222.9	1852.0	2936.2	5027.0	7295.3	8827.9	8795.6	5794.9
65°	448.5	454.9	506.6	690.5	1139.0	2003.7	4023.5	6527.3	8631.1	8660.1	5762.6
67.5°	335.6	335.6	351.7	435.6	648.5	1274.5	2968.4	5594.9	8001.9	8095.5	5459.3
70°	290.4	290.4	293.6	319.4	400.1	755.0	1961.8	4510.7	6859.7	6850.0	4510.7
72.5°	229.1	238.8	258.1	271.0	303.3	442.0	1148.7	3152.4	4765.6	4878.6	2903.9
75°	183.9	187.1	213.0	235.5	254.9	300.1	542.1	1752.0	2500.6	2500.6	1277.7
77.5°	142.0	148.4	164.6	187.1	213.0	213.0	225.9	677.6	968.0	935.7	377.5
80°	90.3	93.6	119.4	148.4	177.5	151.6	122.6	225.9	264.6	254.9	103.3
82.5°	54.9	58.1	77.4	119.4	119.4	83.9	77.4	93.6	83.9	77.4	41.9
85°	16.1	19.4	54.9	77.4	67.8	32.3	38.7	41.9	38.7	35.5	22.6
87.5°	3.2	3.2	16.1	19.4	16.1	16.1	12.9	16.1	16.1	16.1	9.7
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°	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1	671.1
2.5°	680.8	667.9	642.1	622.7	606.6	590.5	577.6	574.3	567.9	567.9	564.6
5°	709.8	680.8	632.4	600.1	574.3	551.7	532.4	513.0	506.6	500.1	503.3
7.5°	755.0	709.8	642.1	593.7	548.5	496.9	454.9	419.5	393.6	387.2	377.5
10°	813.1	745.3	658.2	580.8	496.9	406.5	348.5	313.0	300.1	283.9	287.2
12.5°	871.2	787.3	671.1	545.3	409.8	319.4	271.0	248.4	238.8	235.5	238.8
15°	938.9	832.5	664.7	480.8	329.1	258.1	229.1	219.4	213.0	213.0	209.7
17.5°	1006.7	871.2	642.1	396.9	264.6	219.4	206.5	196.8	190.4	187.1	187.1
20°	1080.9	906.7	590.5	316.2	219.4	200.0	187.1	174.2	167.8	167.8	167.8
22.5°	1158.3	932.5	522.7	251.7	196.8	177.5	164.6	154.9	148.4	148.4	148.4
25°	1226.1	945.4	442.0	209.7	180.7	161.3	148.4	138.7	135.5	132.3	132.3
27.5°	1290.6	942.2	358.1	183.9	161.3	145.2	132.3	125.8	119.4	119.4	119.4
30°	1355.2	922.8	283.9	167.8	148.4	129.1	119.4	112.9	109.7	106.5	106.5
32.5°	1410.0	890.5	222.6	154.9	135.5	116.2	106.5	100.0	100.0	96.8	96.8
35°	1464.9	842.1	187.1	145.2	122.6	106.5	96.8	93.6	90.3	90.3	90.3
37.5°	1522.9	780.8	164.6	132.3	109.7	96.8	90.3	87.1	83.9	80.7	80.7
40°	1593.9	719.5	154.9	122.6	100.0	87.1	80.7	77.4	74.2	74.2	74.2
42.5°	1706.9	667.9	145.2	109.7	90.3	80.7	74.2	67.8	67.8	64.5	64.5
45°	1919.8	648.5	135.5	100.0	83.9	71.0	67.8	61.3	58.1	58.1	58.1
47.5°	2197.3	651.8	125.8	90.3	77.4	64.5	61.3	58.1	51.6	51.6	51.6
50°	2426.4	635.6	116.2	83.9	67.8	61.3	54.9	51.6	48.4	48.4	48.4
52.5°	2516.7	606.6	106.5	77.4	64.5	54.9	51.6	48.4	45.2	45.2	45.2
55°	2607.1	593.7	96.8	67.8	58.1	54.9	48.4	45.2	41.9	38.7	38.7
57.5°	2771.6	600.1	87.1	64.5	54.9	51.6	45.2	38.7	32.3	29.0	29.0
60°	2858.7	577.6	80.7	58.1	51.6	48.4	38.7	29.0	22.6	19.4	19.4
62.5°	2784.5	513.0	74.2	54.9	48.4	41.9	29.0	22.6	16.1	9.7	9.7
65°	2578.0	422.7	67.8	51.6	41.9	32.3	25.8	16.1	9.7	6.5	6.5
67.5°	2316.7	332.3	61.3	48.4	38.7	29.0	22.6	12.9	6.5	3.2	3.2
70°	1871.4	238.8	58.1	45.2	35.5	25.8	19.4	12.9	6.5	3.2	3.2
72.5°	1206.7	154.9	51.6	41.9	32.3	25.8	16.1	9.7	6.5	3.2	3.2
75°	558.2	103.3	48.4	38.7	32.3	22.6	16.1	12.9	6.5	3.2	3.2
77.5°	164.6	74.2	45.2	35.5	29.0	22.6	16.1	12.9	6.5	3.2	3.2
80°	67.8	51.6	35.5	32.3	29.0	22.6	16.1	12.9	6.5	3.2	3.2
82.5°	32.3	22.6	16.1	12.9	16.1	16.1	12.9	12.9	6.5	3.2	3.2
85°	16.1	9.7	6.5	6.5	6.5	3.2	3.2	6.5	6.5	3.2	3.2
87.5°	9.7	6.5	6.5	6.5	3.2	3.2	3.2	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)