

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: P573341

Luminaire Tested: **ARCH-S-PA2-60-760-U-T3-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P573341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/13/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-S-PA2-60-760-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7040 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

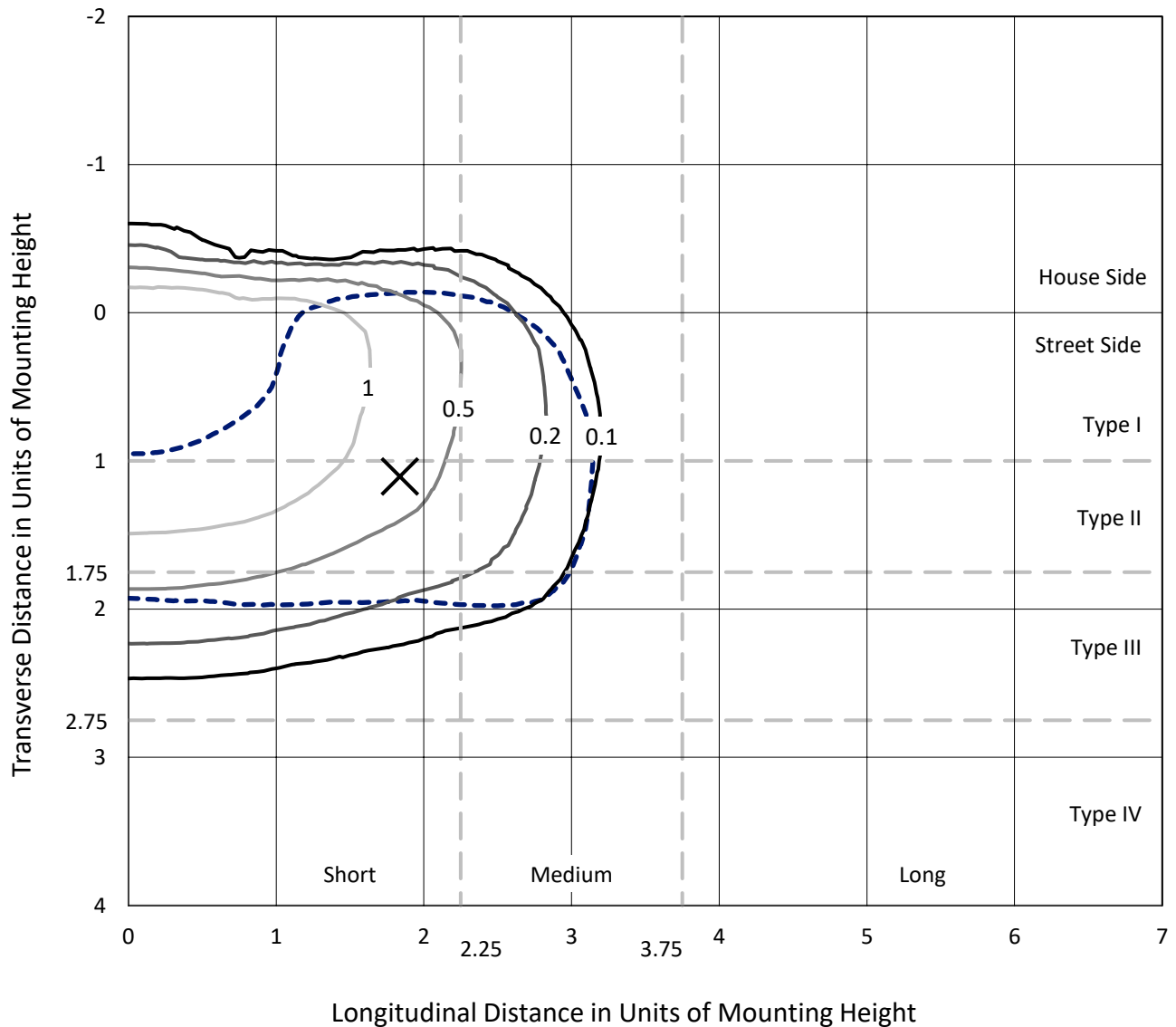
Input Watts (W): 63.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

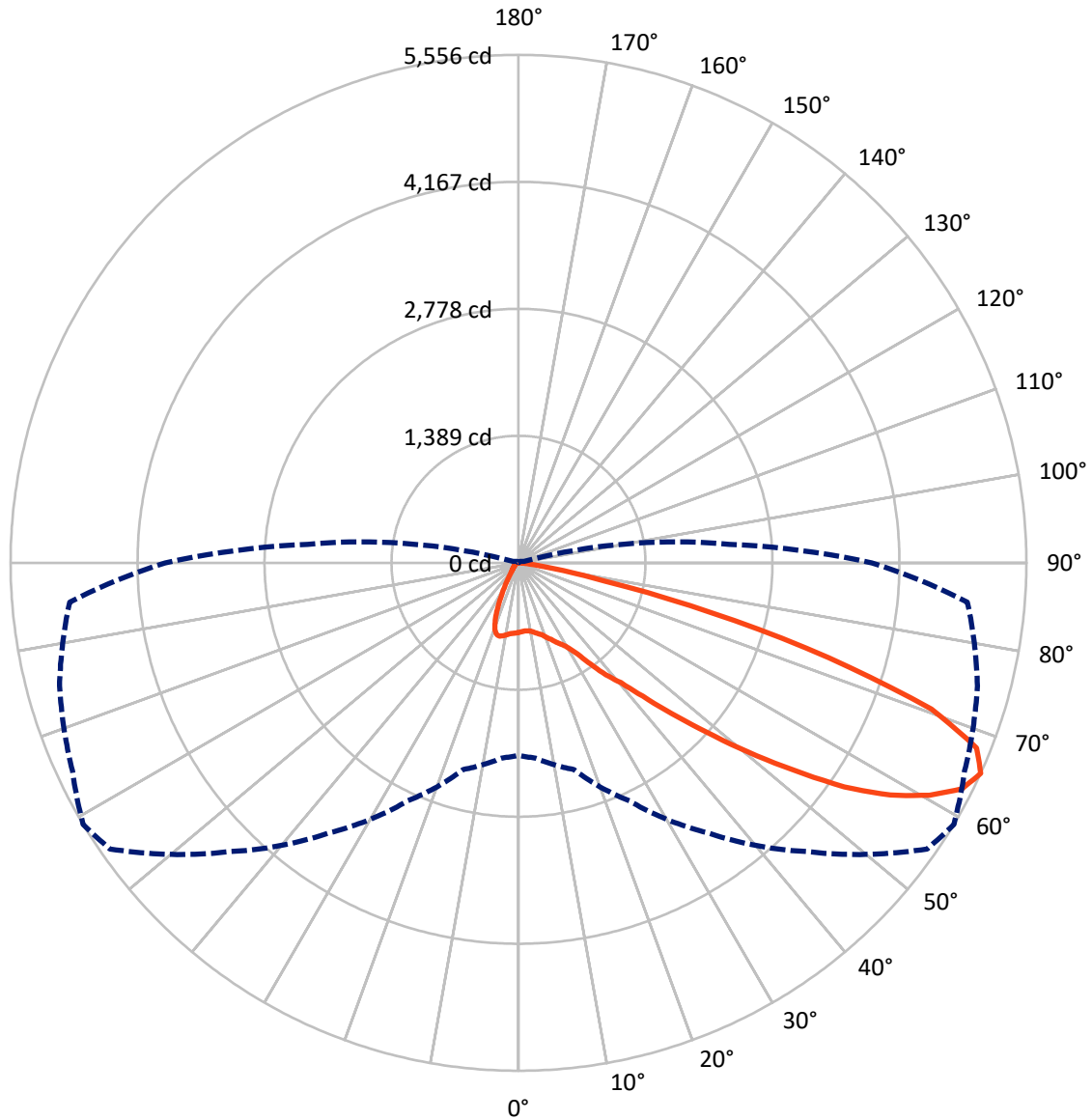
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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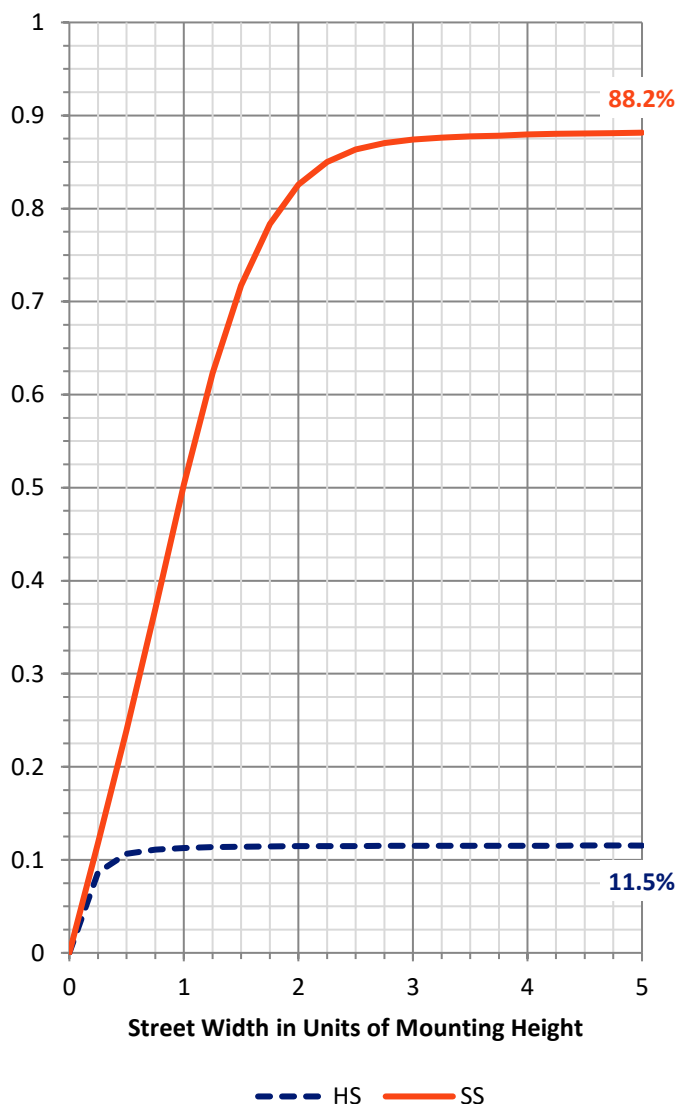
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	821.3	0.0	821.3
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	6218.7	0.0	6218.7
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	7040.0	0.0	7040.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.9	1.0
10°-20°	204.2	2.9
20°-30°	346.9	4.9
30°-40°	614.4	8.7
40°-50°	1159.1	16.5
50°-60°	1961.1	27.9
60°-70°	2038.9	29.0
70°-80°	611.4	8.7
80°-90°	32.1	0.5
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°	7040.0	100.0
0°-180°	7040.0	100.0

**Coefficient of Utilization**

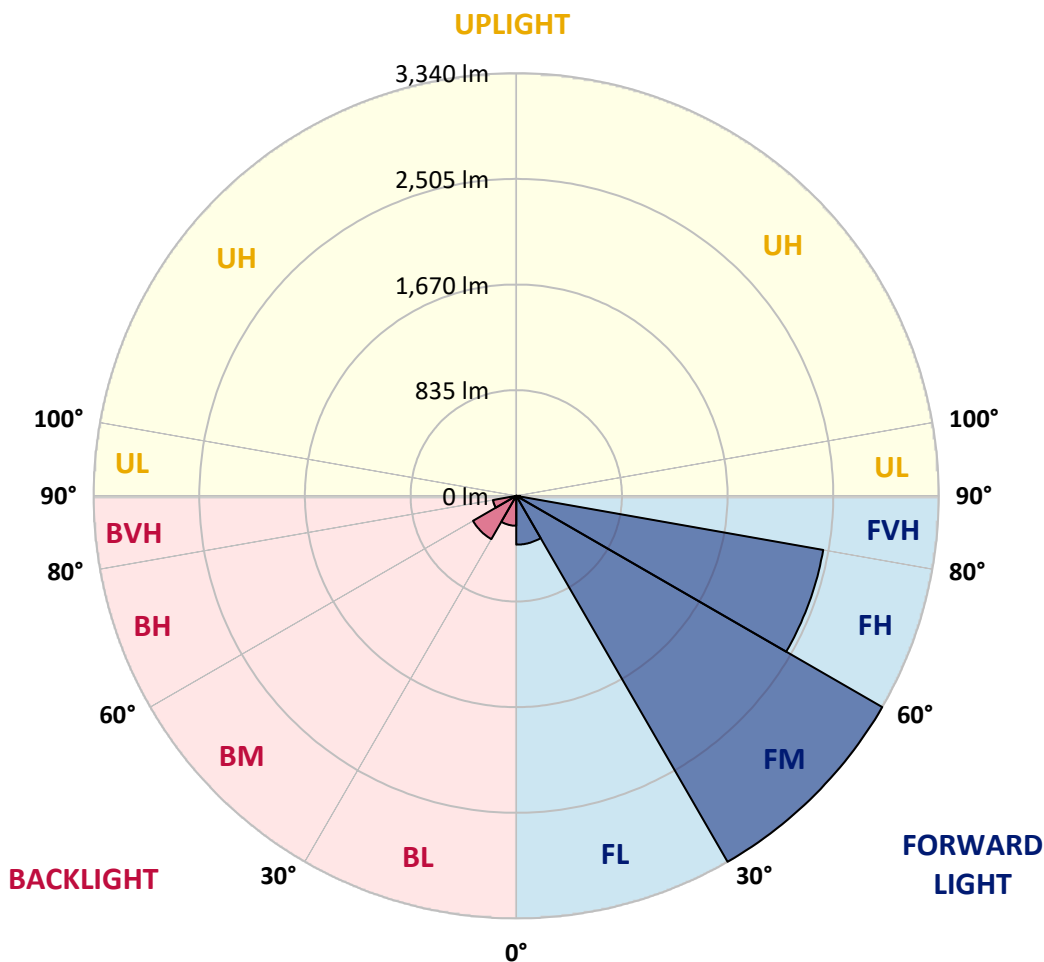


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.1	5.5			
FM (30°-60°)	3339.8	47.4			
FH (60°-80°)	2463.5	35.0			G2/5000
FVH (80°-90°)	29.4	0.4			G1/100
BL (0°-30°)	236.9	3.4	B1/500		
BM (30°-60°)	394.8	5.6	B1/1000		
BH (60°-80°)	186.9	2.7	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	760.7	760.7	760.7	760.7	760.7	760.7	760.7	760.7	760.7	760.7	760.7
2.5°	740.3	737.7	737.7	742.8	745.4	747.9	753.1	753.1	753.1	758.2	760.7
5°	704.4	704.4	707.0	712.1	722.3	730.0	745.4	747.9	750.5	763.3	768.4
7.5°	681.3	681.3	683.9	694.1	707.0	724.9	745.4	750.5	758.2	776.1	788.9
10°	678.8	676.2	681.3	691.6	707.0	730.0	753.1	760.7	776.1	799.2	817.1
12.5°	686.5	683.9	689.0	699.3	714.6	737.7	768.4	781.2	799.2	829.9	855.5
15°	691.6	689.0	694.1	707.0	724.9	753.1	788.9	804.3	827.3	870.9	896.5
17.5°	707.0	704.4	707.0	717.2	735.1	765.9	812.0	827.3	865.8	914.4	942.6
20°	776.1	773.5	758.2	753.1	755.6	783.8	842.7	868.3	914.4	975.9	996.4
22.5°	919.6	909.3	881.1	835.0	804.3	814.5	881.1	909.3	970.8	1039.9	1055.3
25°	1111.7	1104.0	1063.0	983.6	896.5	870.9	924.7	963.1	1037.4	1114.2	1109.1
27.5°	1329.4	1314.0	1275.6	1165.4	1047.6	963.1	978.5	1011.8	1093.7	1175.7	1150.1
30°	1518.9	1513.8	1470.3	1378.0	1239.7	1114.2	1060.4	1078.4	1152.6	1239.7	1209.0
32.5°	1693.1	1677.7	1641.9	1554.8	1426.7	1298.6	1191.1	1191.1	1252.5	1355.0	1308.9
35°	1885.2	1875.0	1831.4	1744.3	1621.4	1470.3	1372.9	1362.7	1413.9	1529.2	1429.3
37.5°	2082.4	2056.8	2036.3	1946.7	1823.7	1693.1	1575.3	1552.2	1577.8	1662.4	1539.4
40°	2328.3	2328.3	2282.2	2200.3	2085.0	1946.7	1782.7	1723.8	1716.2	1826.3	1731.5
42.5°	2615.2	2607.5	2569.1	2492.3	2382.1	2254.1	2046.6	1992.8	1987.7	2120.9	2008.2
45°	2945.6	2940.5	2894.4	2830.4	2753.5	2612.6	2407.7	2353.9	2323.2	2476.9	2343.7
47.5°	3247.9	3230.0	3214.6	3222.3	3178.7	3019.9	2827.8	2763.8	2761.2	2881.6	2710.0
50°	3455.4	3445.1	3498.9	3550.1	3632.1	3532.2	3304.2	3247.9	3204.3	3363.1	3091.6
52.5°	3591.1	3586.0	3693.6	3839.6	4008.6	4000.9	3798.6	3765.3	3729.4	3773.0	3432.3
55°	3644.9	3644.9	3773.0	4041.9	4339.0	4467.1	4372.3	4326.2	4200.7	4111.1	3806.3
57.5°	3580.9	3573.2	3739.7	4090.6	4544.0	4807.8	4848.8	4795.0	4597.8	4497.9	4221.2
60°	3309.4	3314.5	3511.7	3954.8	4528.6	4946.1	5209.9	5161.3	4964.0	4815.5	4569.6
62.5°	2802.2	2845.7	3053.2	3534.8	4200.7	4836.0	5417.4	5443.0	5230.4	5046.0	4879.5
65°	2105.5	2143.9	2341.1	2873.9	3603.9	4467.1	5455.8	5555.7	5384.1	5197.1	4928.2
67.5°	1280.7	1293.5	1534.3	1936.4	2653.6	3721.7	5186.9	5404.6	5281.6	4974.3	4446.6
70°	596.8	630.1	747.9	1057.9	1680.3	2740.7	4482.5	4789.9	4651.5	4269.9	3381.1
72.5°	233.1	243.3	317.6	489.2	891.4	1723.8	3345.2	3550.1	3455.4	3032.7	2015.8
75°	115.3	122.9	153.7	233.1	407.3	712.1	2044.0	2177.2	2021.0	1524.0	853.0
77.5°	84.5	84.5	102.5	143.4	222.8	263.8	860.6	965.7	911.9	589.1	233.1
80°	56.4	61.5	71.7	97.3	140.9	128.1	325.3	386.8	322.7	181.9	82.0
82.5°	33.3	35.9	53.8	69.2	94.8	74.3	110.1	122.9	133.2	89.6	38.4
85°	17.9	17.9	35.9	51.2	51.2	33.3	38.4	43.5	51.2	53.8	20.5
87.5°	5.1	5.1	23.1	30.7	20.5	17.9	20.5	20.5	23.1	28.2	10.2
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°	760.7	760.7	760.7	760.7	760.7	760.7	760.7	760.7	760.7	760.7	760.7
2.5°	763.3	763.3	765.9	765.9	768.4	768.4	768.4	768.4	771.0	773.5	773.5
5°	771.0	773.5	773.5	773.5	773.5	768.4	765.9	763.3	763.3	765.9	765.9
7.5°	791.5	794.0	791.5	786.4	778.7	768.4	758.2	758.2	755.6	758.2	755.6
10°	822.2	822.2	819.7	806.8	794.0	773.5	753.1	737.7	727.4	724.9	719.8
12.5°	860.6	860.6	853.0	829.9	806.8	768.4	714.6	663.4	622.4	604.5	599.4
15°	899.1	899.1	888.8	855.5	809.4	717.2	604.5	496.9	435.4	409.8	394.5
17.5°	945.2	940.0	922.1	876.0	781.2	614.7	432.9	322.7	274.1	251.0	251.0
20°	993.8	988.7	955.4	878.6	709.5	440.6	281.8	222.8	210.0	204.9	204.9
22.5°	1047.6	1034.8	983.6	858.1	558.4	299.7	212.6	197.2	192.1	189.5	189.5
25°	1091.2	1070.7	1004.1	801.7	399.6	210.0	187.0	181.9	171.6	169.1	163.9
27.5°	1124.5	1093.7	1011.8	681.3	263.8	174.2	166.5	156.2	146.0	135.8	135.8
30°	1168.0	1129.6	1016.9	530.2	179.3	151.1	143.4	130.6	117.8	107.6	107.6
32.5°	1255.1	1198.7	1019.4	371.4	148.6	133.2	117.8	102.5	89.6	84.5	82.0
35°	1349.9	1273.0	991.3	240.8	130.6	112.7	94.8	82.0	69.2	66.6	66.6
37.5°	1454.9	1383.2	929.8	163.9	115.3	94.8	76.8	64.0	56.4	53.8	53.8
40°	1631.6	1547.1	827.3	130.6	99.9	79.4	64.0	53.8	48.7	46.1	46.1
42.5°	1885.2	1739.2	699.3	112.7	87.1	66.6	51.2	43.5	41.0	38.4	38.4
45°	2177.2	1954.4	550.7	102.5	76.8	56.4	43.5	38.4	35.9	33.3	33.3
47.5°	2512.8	2177.2	435.4	89.6	66.6	48.7	38.4	33.3	30.7	28.2	28.2
50°	2830.4	2351.4	327.9	79.4	58.9	41.0	33.3	30.7	28.2	25.6	25.6
52.5°	3091.6	2469.2	248.5	69.2	51.2	35.9	30.7	28.2	23.1	23.1	23.1
55°	3406.7	2561.4	189.5	61.5	46.1	33.3	28.2	23.1	20.5	17.9	17.9
57.5°	3680.8	2594.7	138.3	53.8	41.0	30.7	25.6	20.5	15.4	12.8	12.8
60°	3865.2	2566.5	99.9	46.1	35.9	25.6	20.5	15.4	10.2	7.7	7.7
62.5°	3995.8	2505.1	76.8	41.0	30.7	23.1	17.9	12.8	7.7	5.1	5.1
65°	3865.2	2315.5	61.5	35.9	25.6	20.5	12.8	10.2	5.1	2.6	2.6
67.5°	3342.7	1941.6	48.7	30.7	23.1	17.9	12.8	7.7	2.6	0.0	0.0
70°	2402.6	1385.7	41.0	28.2	20.5	15.4	10.2	5.1	2.6	0.0	0.0
72.5°	1339.6	714.6	38.4	25.6	20.5	15.4	10.2	5.1	2.6	0.0	0.0
75°	543.0	245.9	35.9	25.6	20.5	12.8	10.2	5.1	2.6	0.0	0.0
77.5°	158.8	84.5	30.7	23.1	20.5	15.4	10.2	5.1	2.6	0.0	0.0
80°	56.4	38.4	23.1	20.5	15.4	12.8	10.2	7.7	2.6	0.0	0.0
82.5°	25.6	15.4	10.2	7.7	7.7	7.7	7.7	5.1	2.6	0.0	0.0
85°	10.2	7.7	5.1	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0
87.5°	7.7	5.1	2.6	2.6	2.6	2.6	0.0	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)