

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: P572972

Luminaire Tested: **ARCH-S-PA2-20-727-U-T3-HSS**

Issue Date: 10/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P572972  
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-PA2-20-727-U-T3-HSS  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 2700K, 220mA 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: 2298 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B0 - U0 - G1

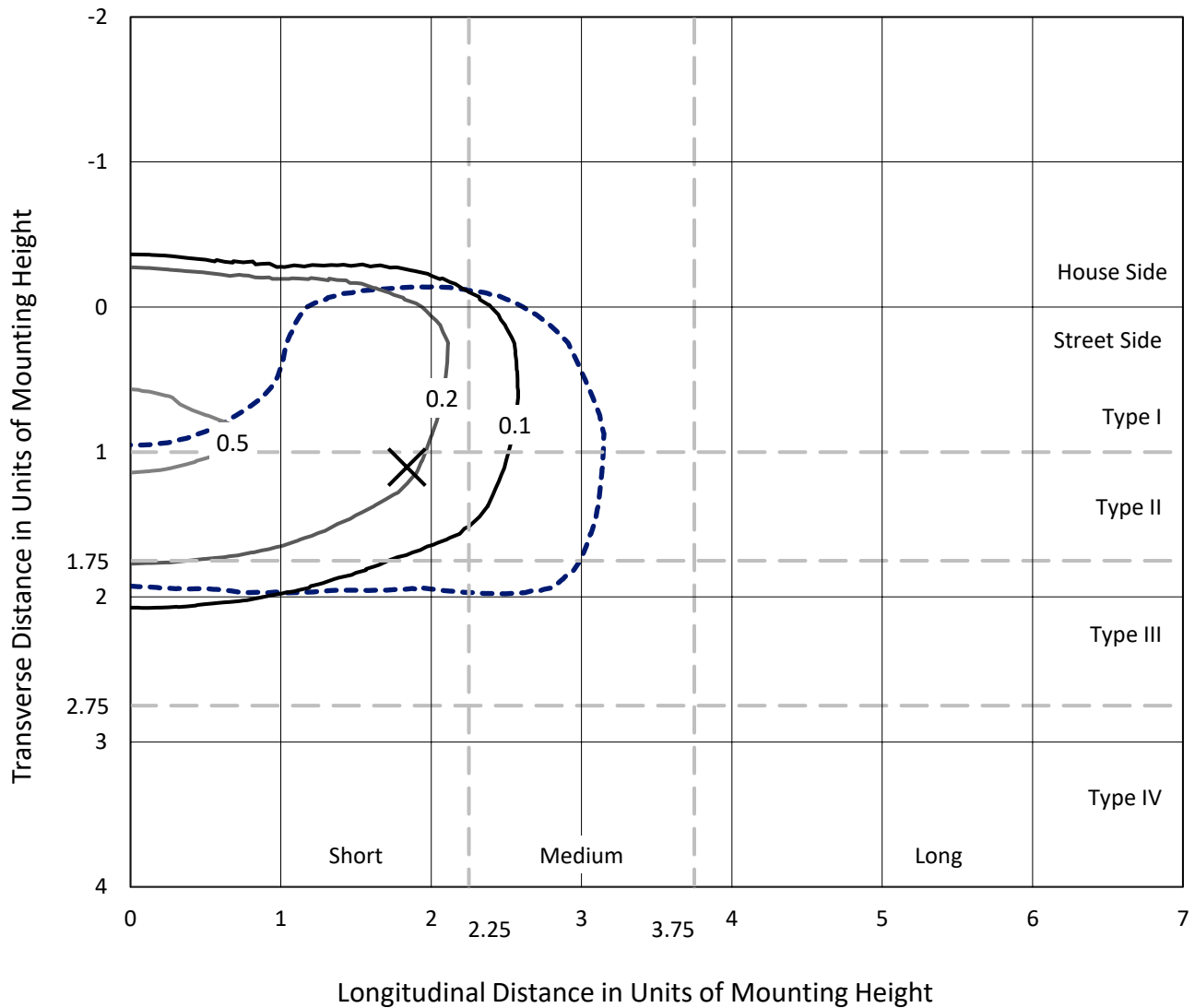
Input Watts (W): 23.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

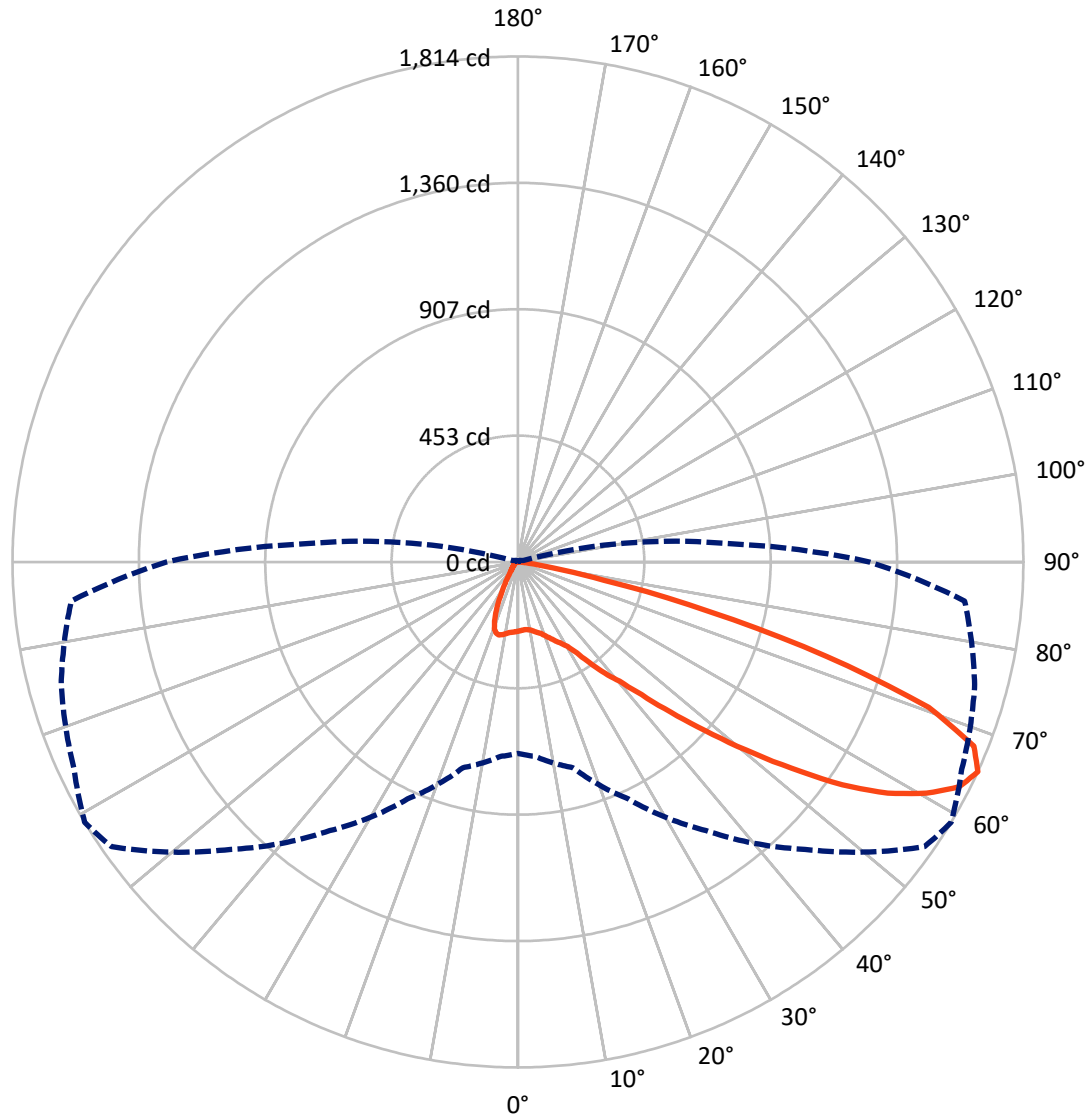
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 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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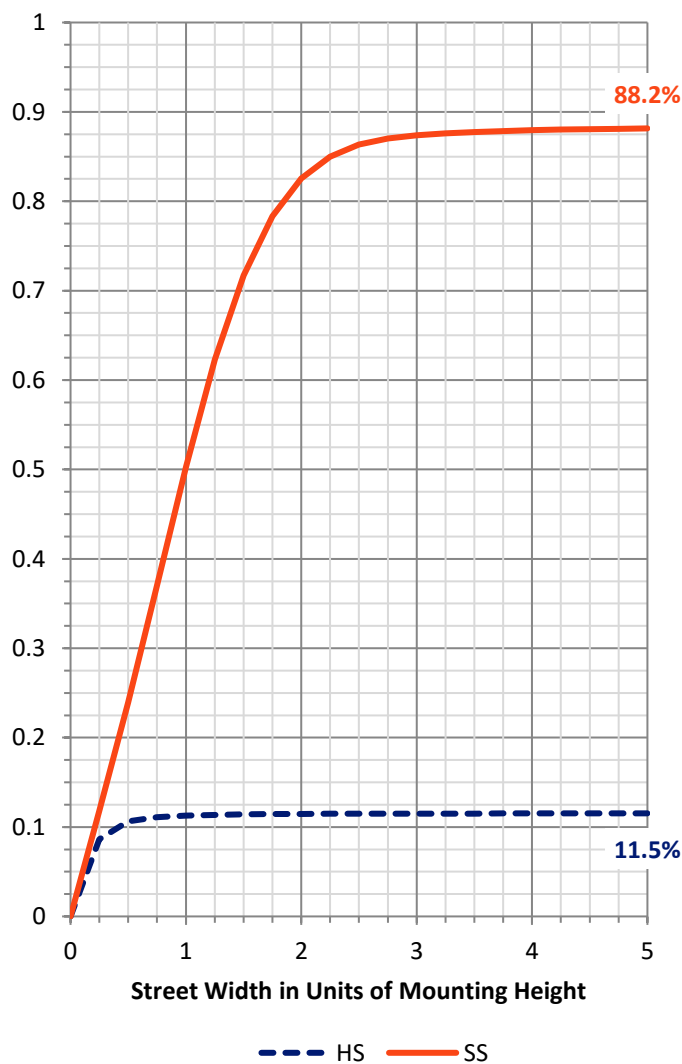
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	268.1	0.0	268.1
	% Fixture	11.7	0.0	11.7
<b>Street Side</b>	Lumens	2029.9	0.0	2029.9
	% Fixture	88.3	0.0	88.3
<b>Total</b>	Lumens	2298.0	0.0	2298.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.5	1.0
10°-20°	66.7	2.9
20°-30°	113.2	4.9
30°-40°	200.6	8.7
40°-50°	378.3	16.5
50°-60°	640.1	27.9
60°-70°	665.5	29.0
70°-80°	199.6	8.7
80°-90°	10.5	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°	2298.0	100.0
0°-180°	2298.0	100.0

**Coefficient of Utilization**

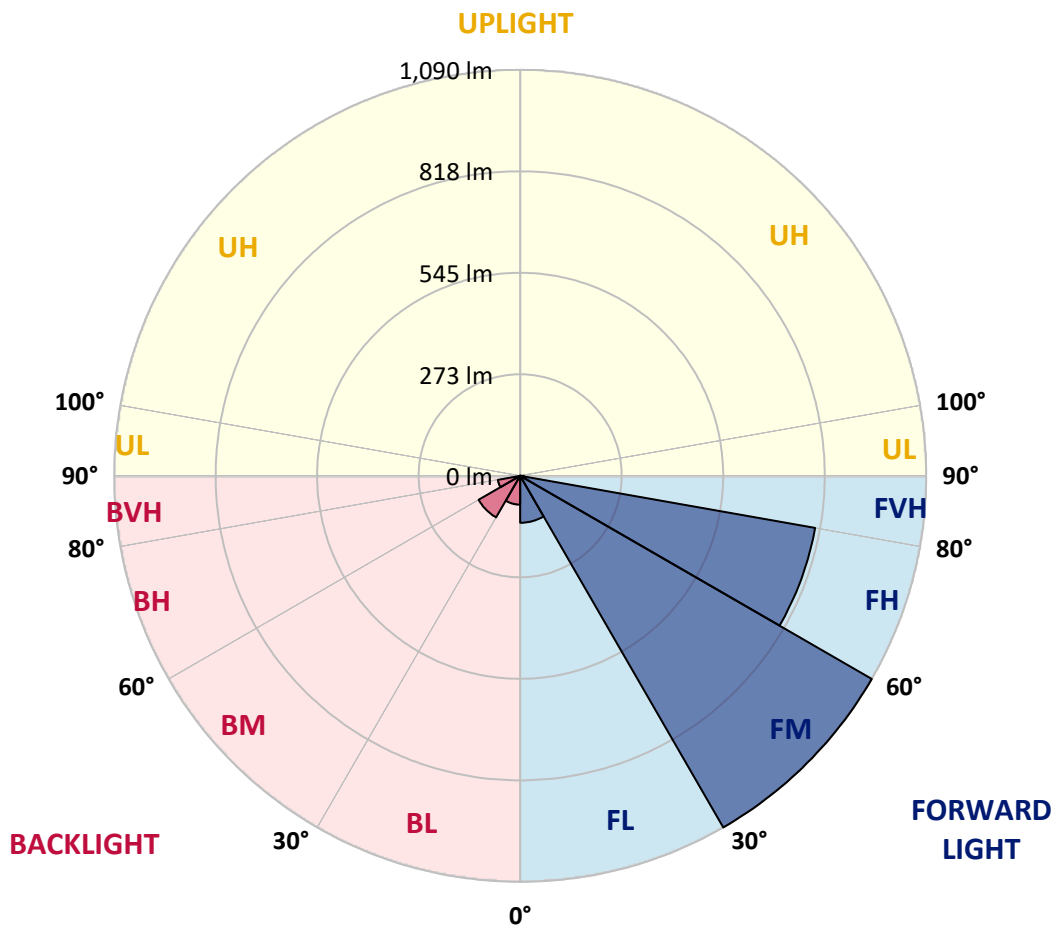


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	126.0	5.5			
FM (30°-60°)	1090.2	47.4			
FH (60°-80°)	804.1	35.0			G1/1800
FVH (80°-90°)	9.6	0.4			G0/10
BL (0°-30°)	77.3	3.4	B0/110		
BM (30°-60°)	128.9	5.6	B0/220		
BH (60°-80°)	61.0	2.7	B0/110		G0/110
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3
2.5°	241.6	240.8	240.8	242.5	243.3	244.1	245.8	245.8	245.8	247.5	248.3
5°	229.9	229.9	230.8	232.4	235.8	238.3	243.3	243.3	245.0	249.2	250.8
7.5°	222.4	222.4	223.2	226.6	230.8	236.6	243.3	245.0	247.5	253.3	257.5
10°	221.6	220.7	222.4	225.7	230.8	238.3	245.8	248.3	253.3	260.9	266.7
12.5°	224.1	223.2	224.9	228.3	233.3	240.8	250.8	255.0	260.9	270.9	279.3
15°	225.7	224.9	226.6	230.8	236.6	245.8	257.5	262.5	270.1	284.3	292.6
17.5°	230.8	229.9	230.8	234.1	240.0	250.0	265.0	270.1	282.6	298.5	307.7
20°	253.3	252.5	247.5	245.8	246.6	255.8	275.1	283.4	298.5	318.6	325.2
22.5°	300.2	296.8	287.6	272.6	262.5	265.9	287.6	296.8	316.9	339.5	344.5
25°	362.9	360.4	347.0	321.1	292.6	284.3	301.8	314.4	338.6	363.7	362.0
27.5°	433.9	428.9	416.4	380.4	342.0	314.4	319.4	330.3	357.0	383.8	375.4
30°	495.8	494.1	479.9	449.8	404.7	363.7	346.1	352.0	376.2	404.7	394.6
32.5°	552.7	547.6	535.9	507.5	465.7	423.9	388.8	388.8	408.9	442.3	427.2
35°	615.4	612.0	597.8	569.4	529.3	479.9	448.1	444.8	461.5	499.2	466.5
37.5°	679.7	671.4	664.7	635.4	595.3	552.7	514.2	506.7	515.0	542.6	502.5
40°	760.0	760.0	745.0	718.2	680.6	635.4	581.9	562.7	560.2	596.1	565.2
42.5°	853.7	851.1	838.6	813.5	777.6	735.8	668.0	650.5	648.8	692.3	655.5
45°	961.5	959.8	944.8	923.9	898.8	852.8	785.9	768.4	758.3	808.5	765.0
47.5°	1060.2	1054.3	1049.3	1051.8	1037.6	985.8	923.1	902.2	901.3	940.6	884.6
50°	1127.9	1124.6	1142.1	1158.8	1185.6	1153.0	1078.6	1060.2	1046.0	1097.8	1009.2
52.5°	1172.2	1170.5	1205.7	1253.3	1308.5	1306.0	1239.9	1229.1	1217.4	1231.6	1120.4
55°	1189.8	1189.8	1231.6	1319.4	1416.4	1458.2	1427.2	1412.2	1371.2	1341.9	1242.4
57.5°	1168.9	1166.4	1220.7	1335.3	1483.2	1569.4	1582.7	1565.2	1500.8	1468.2	1377.9
60°	1080.2	1081.9	1146.3	1290.9	1478.2	1614.5	1700.6	1684.7	1620.4	1571.9	1491.6
62.5°	914.7	928.9	996.6	1153.8	1371.2	1578.6	1768.4	1776.7	1707.3	1647.1	1592.8
65°	687.3	699.8	764.2	938.1	1176.4	1458.2	1780.9	1813.5	1757.5	1696.4	1608.7
67.5°	418.1	422.2	500.8	632.1	866.2	1214.9	1693.1	1764.2	1724.0	1623.7	1451.5
70°	194.8	205.7	244.1	345.3	548.5	894.6	1463.2	1563.5	1518.4	1393.8	1103.7
72.5°	76.1	79.4	103.7	159.7	291.0	562.7	1091.9	1158.8	1127.9	989.9	658.0
75°	37.6	40.1	50.2	76.1	132.9	232.4	667.2	710.7	659.7	497.5	278.4
77.5°	27.6	27.6	33.4	46.8	72.7	86.1	280.9	315.2	297.7	192.3	76.1
80°	18.4	20.1	23.4	31.8	46.0	41.8	106.2	126.3	105.3	59.4	26.8
82.5°	10.9	11.7	17.6	22.6	30.9	24.2	36.0	40.1	43.5	29.3	12.5
85°	5.9	5.9	11.7	16.7	16.7	10.9	12.5	14.2	16.7	17.6	6.7
87.5°	1.7	1.7	7.5	10.0	6.7	5.9	6.7	6.7	7.5	9.2	3.3
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°	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3	248.3
2.5°	249.2	249.2	250.0	250.0	250.8	250.8	250.8	250.8	251.7	252.5	252.5
5°	251.7	252.5	252.5	252.5	252.5	250.8	250.0	249.2	249.2	250.0	250.0
7.5°	258.4	259.2	258.4	256.7	254.2	250.8	247.5	247.5	246.6	247.5	246.6
10°	268.4	268.4	267.6	263.4	259.2	252.5	245.8	240.8	237.5	236.6	234.9
12.5°	280.9	280.9	278.4	270.9	263.4	250.8	233.3	216.5	203.2	197.3	195.6
15°	293.5	293.5	290.1	279.3	264.2	234.1	197.3	162.2	142.1	133.8	128.8
17.5°	308.5	306.8	301.0	285.9	255.0	200.7	141.3	105.3	89.5	81.9	81.9
20°	324.4	322.7	311.9	286.8	231.6	143.8	92.0	72.7	68.6	66.9	66.9
22.5°	342.0	337.8	321.1	280.1	182.3	97.8	69.4	64.4	62.7	61.9	61.9
25°	356.2	349.5	327.8	261.7	130.4	68.6	61.0	59.4	56.0	55.2	53.5
27.5°	367.0	357.0	330.3	222.4	86.1	56.9	54.3	51.0	47.7	44.3	44.3
30°	381.3	368.7	331.9	173.1	58.5	49.3	46.8	42.6	38.5	35.1	35.1
32.5°	409.7	391.3	332.8	121.2	48.5	43.5	38.5	33.4	29.3	27.6	26.8
35°	440.6	415.5	323.6	78.6	42.6	36.8	30.9	26.8	22.6	21.7	21.7
37.5°	474.9	451.5	303.5	53.5	37.6	30.9	25.1	20.9	18.4	17.6	17.6
40°	532.6	505.0	270.1	42.6	32.6	25.9	20.9	17.6	15.9	15.0	15.0
42.5°	615.4	567.7	228.3	36.8	28.4	21.7	16.7	14.2	13.4	12.5	12.5
45°	710.7	637.9	179.8	33.4	25.1	18.4	14.2	12.5	11.7	10.9	10.9
47.5°	820.2	710.7	142.1	29.3	21.7	15.9	12.5	10.9	10.0	9.2	9.2
50°	923.9	767.5	107.0	25.9	19.2	13.4	10.9	10.0	9.2	8.4	8.4
52.5°	1009.2	806.0	81.1	22.6	16.7	11.7	10.0	9.2	7.5	7.5	7.5
55°	1112.0	836.1	61.9	20.1	15.0	10.9	9.2	7.5	6.7	5.9	5.9
57.5°	1201.5	847.0	45.1	17.6	13.4	10.0	8.4	6.7	5.0	4.2	4.2
60°	1261.7	837.8	32.6	15.0	11.7	8.4	6.7	5.0	3.3	2.5	2.5
62.5°	1304.3	817.7	25.1	13.4	10.0	7.5	5.9	4.2	2.5	1.7	1.7
65°	1261.7	755.8	20.1	11.7	8.4	6.7	4.2	3.3	1.7	0.8	0.8
67.5°	1091.1	633.8	15.9	10.0	7.5	5.9	4.2	2.5	0.8	0.0	0.0
70°	784.3	452.3	13.4	9.2	6.7	5.0	3.3	1.7	0.8	0.0	0.0
72.5°	437.3	233.3	12.5	8.4	6.7	5.0	3.3	1.7	0.8	0.0	0.0
75°	177.3	80.3	11.7	8.4	6.7	4.2	3.3	1.7	0.8	0.0	0.0
77.5°	51.8	27.6	10.0	7.5	6.7	5.0	3.3	1.7	0.8	0.0	0.0
80°	18.4	12.5	7.5	6.7	5.0	4.2	3.3	2.5	0.8	0.0	0.0
82.5°	8.4	5.0	3.3	2.5	2.5	2.5	2.5	1.7	0.8	0.0	0.0
85°	3.3	2.5	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
87.5°	2.5	1.7	0.8	0.8	0.8	0.8	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)