

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: P572981

Luminaire Tested: **ARCH-S-PA2-20-730-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572981
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-PA2-20-730-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 2503 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

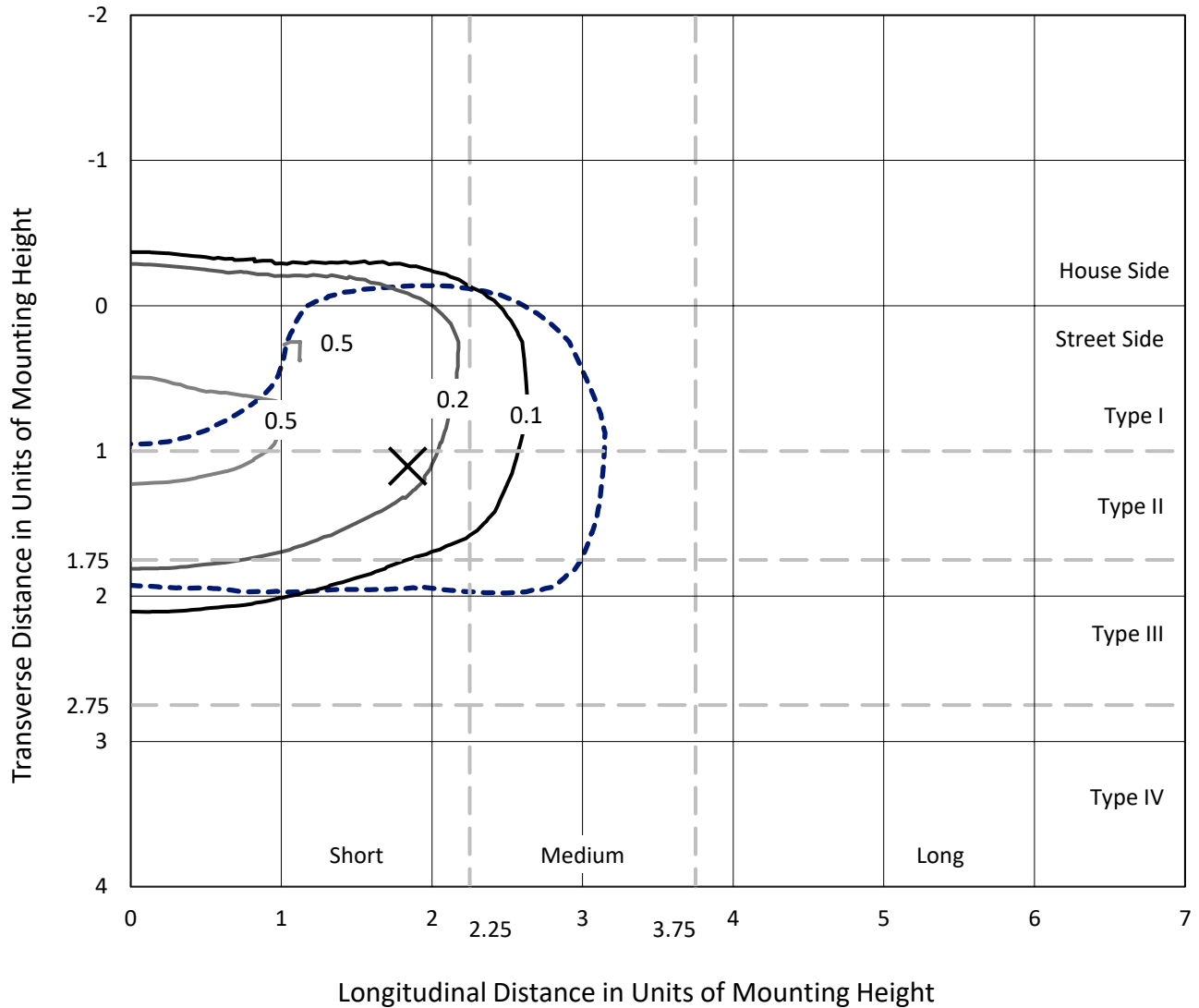
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

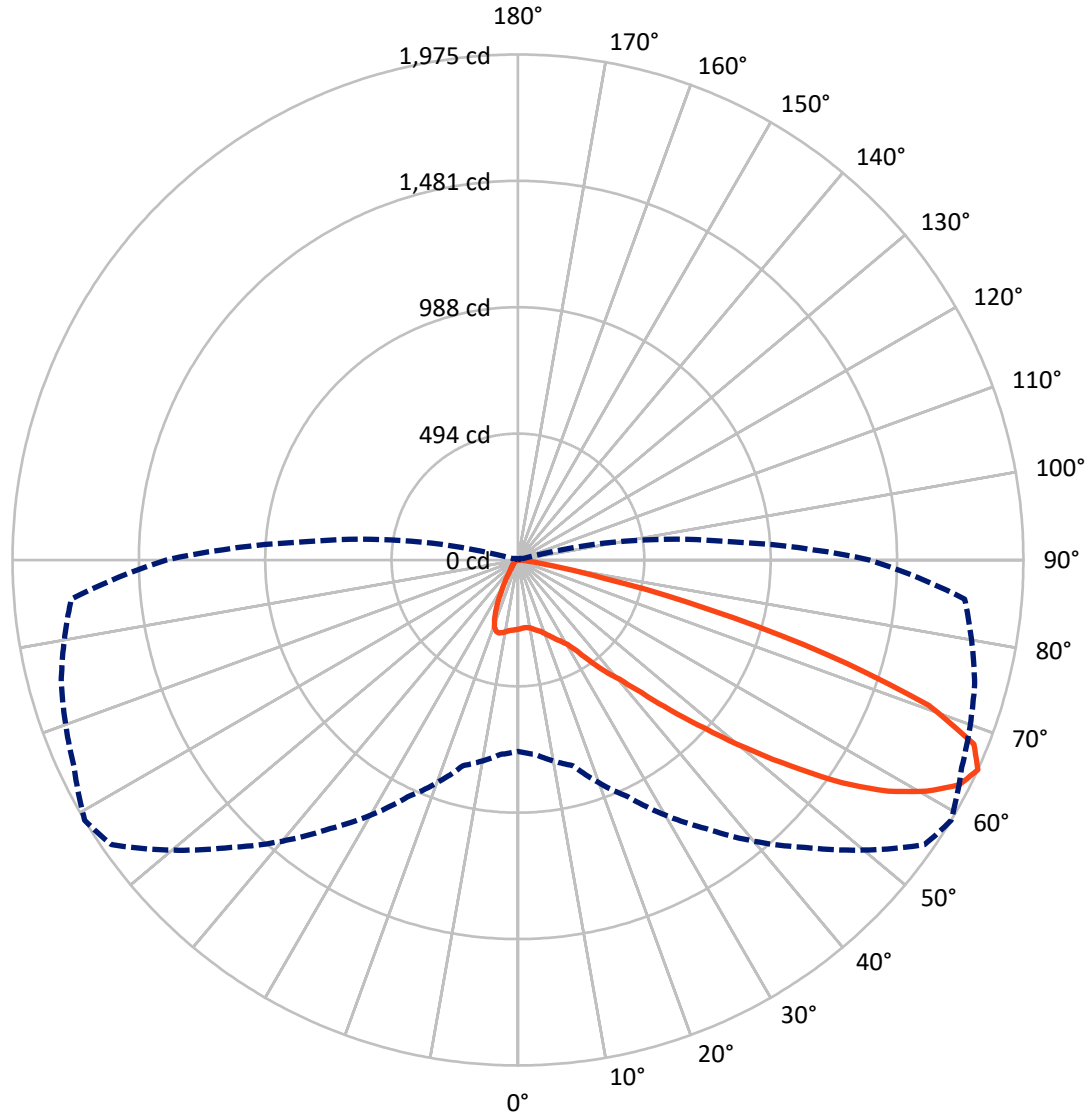
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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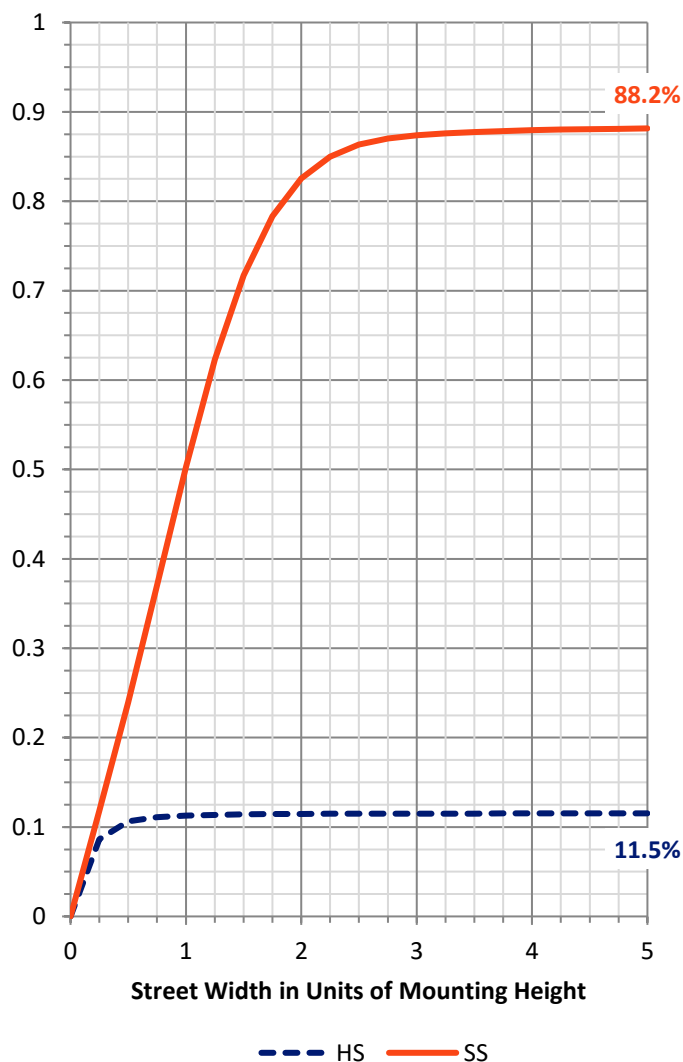
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	292.0	0.0	292.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	2211.0	0.0	2211.0
	% Fixture	88.3	0.0	88.3
Total	Lumens	2503.0	0.0	2503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	1.0
10°-20°	72.6	2.9
20°-30°	123.3	4.9
30°-40°	218.5	8.7
40°-50°	412.1	16.5
50°-60°	697.2	27.9
60°-70°	724.9	29.0
70°-80°	217.4	8.7
80°-90°	11.4	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°	2503.0	100.0
0°-180°	2503.0	100.0

Coefficient of Utilization



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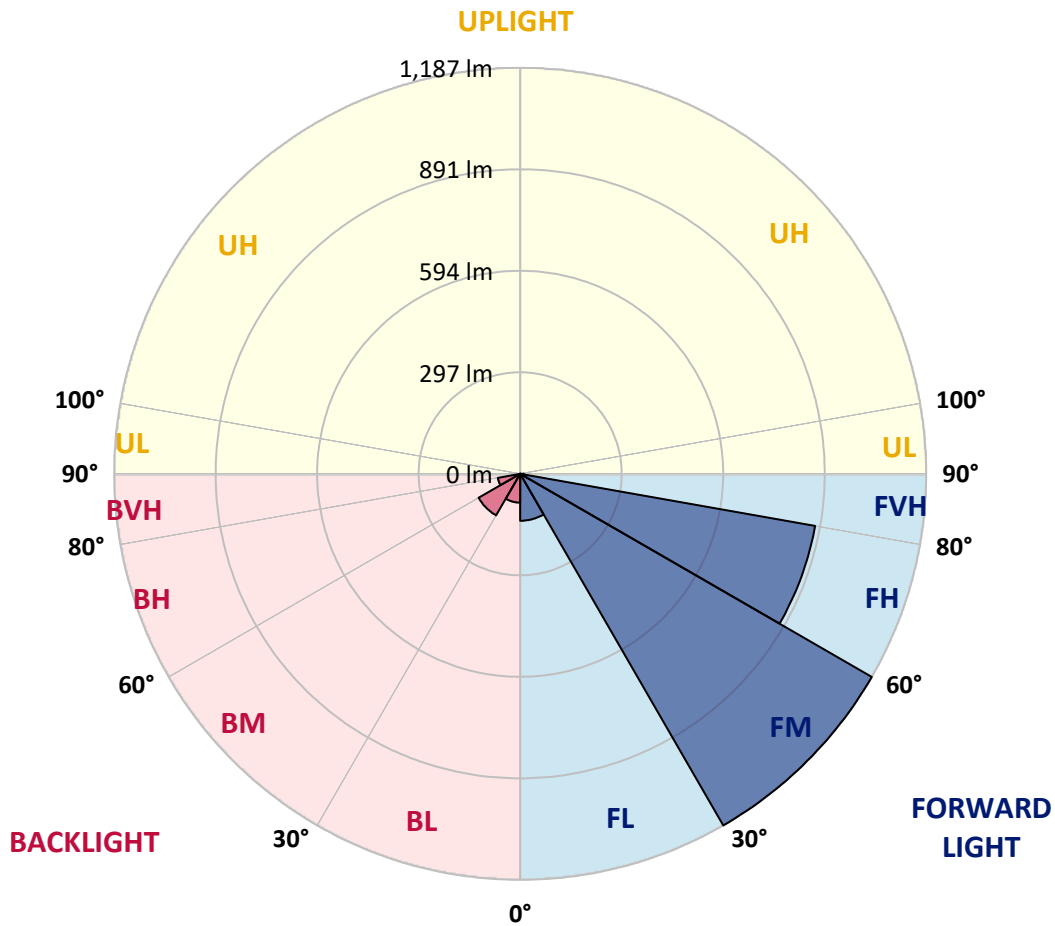
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	137.3	5.5			
FM (30°-60°)	1187.4	47.4			
FH (60°-80°)	875.9	35.0			G1/1800
FVH (80°-90°)	10.4	0.4			G1/100
BL (0°-30°)	84.2	3.4	B0/110		
BM (30°-60°)	140.4	5.6	B0/220		
BH (60°-80°)	66.4	2.7	B0/110		G0/110
BVH (80°-90°)	1.0	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°	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5
2.5°	263.2	262.3	262.3	264.1	265.0	265.9	267.7	267.7	267.7	269.6	270.5
5°	250.4	250.4	251.3	253.2	256.8	259.5	265.0	265.9	266.8	271.4	273.2
7.5°	242.2	242.2	243.2	246.8	251.3	257.7	265.0	266.8	269.6	275.9	280.5
10°	241.3	240.4	242.2	245.9	251.3	259.5	267.7	270.5	275.9	284.1	290.5
12.5°	244.1	243.2	245.0	248.6	254.1	262.3	273.2	277.8	284.1	295.1	304.2
15°	245.9	245.0	246.8	251.3	257.7	267.7	280.5	286.0	294.2	309.6	318.7
17.5°	251.3	250.4	251.3	255.0	261.4	272.3	288.7	294.2	307.8	325.1	335.1
20°	275.9	275.0	269.6	267.7	268.7	278.7	299.6	308.7	325.1	347.0	354.3
22.5°	326.9	323.3	313.3	296.9	286.0	289.6	313.3	323.3	345.2	369.7	375.2
25°	395.2	392.5	377.9	349.7	318.7	309.6	328.8	342.4	368.8	396.1	394.3
27.5°	472.6	467.2	453.5	414.4	372.5	342.4	347.9	359.7	388.9	418.0	408.9
30°	540.0	538.2	522.7	489.9	440.8	396.1	377.0	383.4	409.8	440.8	429.8
32.5°	602.0	596.5	583.8	552.8	507.3	461.7	423.5	423.5	445.3	481.8	465.4
35°	670.3	666.6	651.1	620.2	576.5	522.7	488.1	484.5	502.7	543.7	508.2
37.5°	740.4	731.3	724.0	692.1	648.4	602.0	560.1	551.9	561.0	591.0	547.3
40°	827.8	827.8	811.4	782.3	741.3	692.1	633.8	612.9	610.2	649.3	615.6
42.5°	929.8	927.1	913.4	886.1	846.9	801.4	727.6	708.5	706.7	754.0	714.0
45°	1047.3	1045.5	1029.1	1006.3	979.0	928.9	856.0	836.9	826.0	880.6	833.3
47.5°	1154.8	1148.4	1142.9	1145.6	1130.2	1073.7	1005.4	982.6	981.7	1024.5	963.5
50°	1228.5	1224.9	1244.0	1262.2	1291.4	1255.8	1174.8	1154.8	1139.3	1195.7	1099.2
52.5°	1276.8	1275.0	1313.2	1365.1	1425.2	1422.5	1350.5	1338.7	1326.0	1341.4	1220.3
55°	1295.9	1295.9	1341.4	1437.1	1542.7	1588.2	1554.5	1538.2	1493.5	1461.7	1353.3
57.5°	1273.1	1270.4	1329.6	1454.4	1615.6	1709.4	1723.9	1704.8	1634.7	1599.2	1500.8
60°	1176.6	1178.4	1248.6	1406.1	1610.1	1758.5	1852.3	1835.0	1764.9	1712.1	1624.7
62.5°	996.3	1011.8	1085.5	1256.7	1493.5	1719.4	1926.1	1935.2	1859.6	1794.1	1734.9
65°	748.6	762.2	832.4	1021.8	1281.3	1588.2	1939.8	1975.3	1914.3	1847.8	1752.2
67.5°	455.3	459.9	545.5	688.5	943.5	1323.2	1844.1	1921.5	1877.8	1768.6	1581.0
70°	212.2	224.0	265.9	376.1	597.4	974.4	1593.7	1703.0	1653.8	1518.1	1202.1
72.5°	82.9	86.5	112.9	173.9	316.9	612.9	1189.4	1262.2	1228.5	1078.3	716.7
75°	41.0	43.7	54.6	82.9	144.8	253.2	726.7	774.1	718.5	541.9	303.3
77.5°	30.1	30.1	36.4	51.0	79.2	93.8	306.0	343.3	324.2	209.5	82.9
80°	20.0	21.9	25.5	34.6	50.1	45.5	115.7	137.5	114.7	64.7	29.1
82.5°	11.8	12.7	19.1	24.6	33.7	26.4	39.2	43.7	47.4	31.9	13.7
85°	6.4	6.4	12.7	18.2	18.2	11.8	13.7	15.5	18.2	19.1	7.3
87.5°	1.8	1.8	8.2	10.9	7.3	6.4	7.3	7.3	8.2	10.0	3.6
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°	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5	270.5
2.5°	271.4	271.4	272.3	272.3	273.2	273.2	273.2	273.2	274.1	275.0	275.0
5°	274.1	275.0	275.0	275.0	275.0	273.2	272.3	271.4	271.4	272.3	272.3
7.5°	281.4	282.3	281.4	279.6	276.8	273.2	269.6	269.6	268.7	269.6	268.7
10°	292.3	292.3	291.4	286.9	282.3	275.0	267.7	262.3	258.6	257.7	255.9
12.5°	306.0	306.0	303.3	295.1	286.9	273.2	254.1	235.9	221.3	214.9	213.1
15°	319.7	319.7	316.0	304.2	287.8	255.0	214.9	176.7	154.8	145.7	140.2
17.5°	336.0	334.2	327.8	311.5	277.8	218.6	153.9	114.7	97.4	89.2	89.2
20°	353.3	351.5	339.7	312.4	252.3	156.6	100.2	79.2	74.7	72.9	72.9
22.5°	372.5	367.9	349.7	305.1	198.5	106.6	75.6	70.1	68.3	67.4	67.4
25°	388.0	380.7	357.0	285.0	142.1	74.7	66.5	64.7	61.0	60.1	58.3
27.5°	399.8	388.9	359.7	242.2	93.8	61.9	59.2	55.6	51.9	48.3	48.3
30°	415.3	401.6	361.5	188.5	63.7	53.7	51.0	46.4	41.9	38.2	38.2
32.5°	446.2	426.2	362.5	132.0	52.8	47.4	41.9	36.4	31.9	30.1	29.1
35°	479.9	452.6	352.4	85.6	46.4	40.1	33.7	29.1	24.6	23.7	23.7
37.5°	517.3	491.8	330.6	58.3	41.0	33.7	27.3	22.8	20.0	19.1	19.1
40°	580.1	550.1	294.2	46.4	35.5	28.2	22.8	19.1	17.3	16.4	16.4
42.5°	670.3	618.4	248.6	40.1	31.0	23.7	18.2	15.5	14.6	13.7	13.7
45°	774.1	694.9	195.8	36.4	27.3	20.0	15.5	13.7	12.7	11.8	11.8
47.5°	893.4	774.1	154.8	31.9	23.7	17.3	13.7	11.8	10.9	10.0	10.0
50°	1006.3	836.0	116.6	28.2	20.9	14.6	11.8	10.9	10.0	9.1	9.1
52.5°	1099.2	877.9	88.3	24.6	18.2	12.7	10.9	10.0	8.2	8.2	8.2
55°	1211.2	910.7	67.4	21.9	16.4	11.8	10.0	8.2	7.3	6.4	6.4
57.5°	1308.7	922.5	49.2	19.1	14.6	10.9	9.1	7.3	5.5	4.6	4.6
60°	1374.2	912.5	35.5	16.4	12.7	9.1	7.3	5.5	3.6	2.7	2.7
62.5°	1420.7	890.7	27.3	14.6	10.9	8.2	6.4	4.6	2.7	1.8	1.8
65°	1374.2	823.3	21.9	12.7	9.1	7.3	4.6	3.6	1.8	0.9	0.9
67.5°	1188.4	690.3	17.3	10.9	8.2	6.4	4.6	2.7	0.9	0.0	0.0
70°	854.2	492.7	14.6	10.0	7.3	5.5	3.6	1.8	0.9	0.0	0.0
72.5°	476.3	254.1	13.7	9.1	7.3	5.5	3.6	1.8	0.9	0.0	0.0
75°	193.1	87.4	12.7	9.1	7.3	4.6	3.6	1.8	0.9	0.0	0.0
77.5°	56.5	30.1	10.9	8.2	7.3	5.5	3.6	1.8	0.9	0.0	0.0
80°	20.0	13.7	8.2	7.3	5.5	4.6	3.6	2.7	0.9	0.0	0.0
82.5°	9.1	5.5	3.6	2.7	2.7	2.7	2.7	1.8	0.9	0.0	0.0
85°	3.6	2.7	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0
87.5°	2.7	1.8	0.9	0.9	0.9	0.9	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)