

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: P572977

Luminaire Tested: **ARCH-S-PA2-20-730-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572977
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-PA2-20-730-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 220mA 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: 2587 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

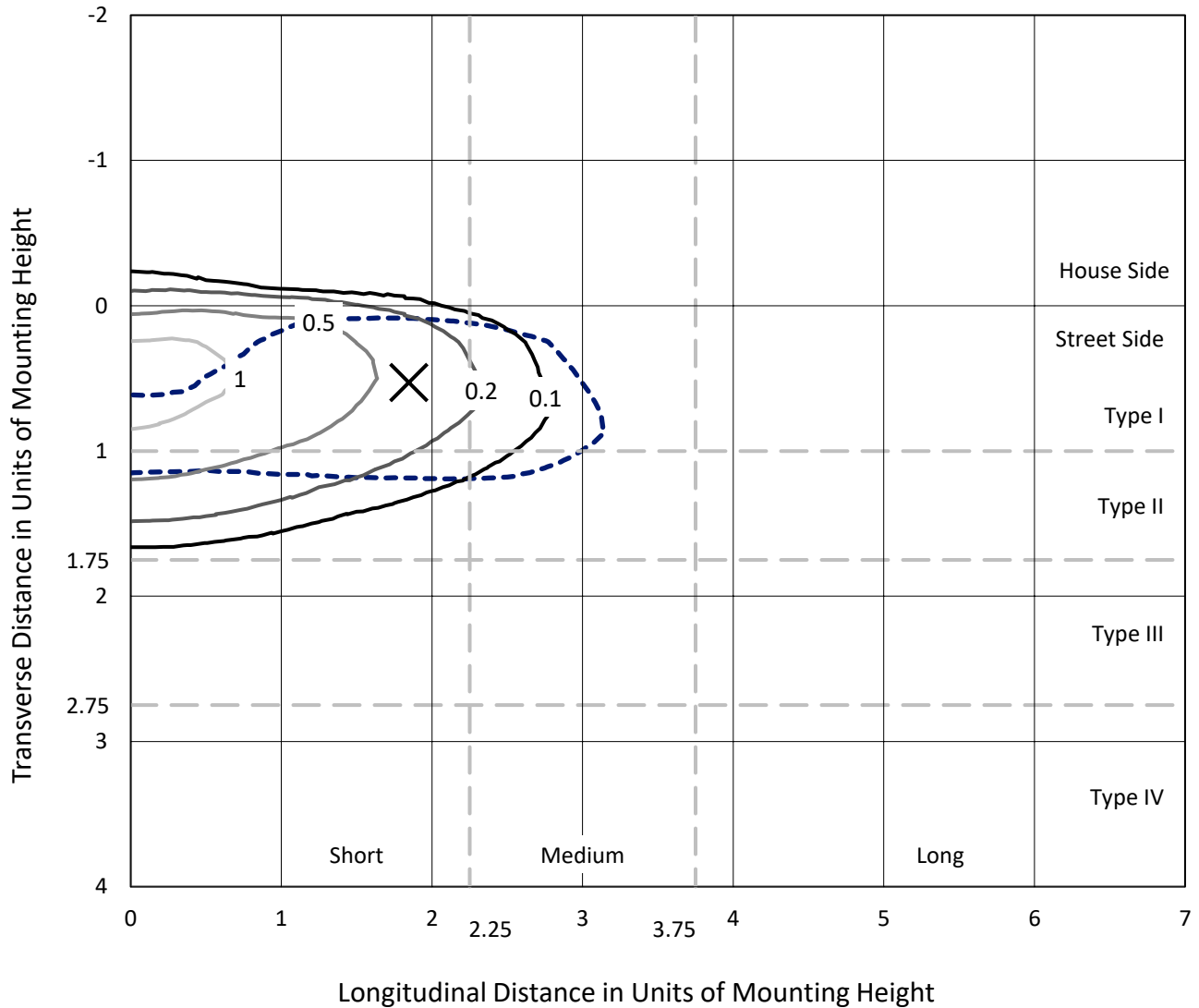
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

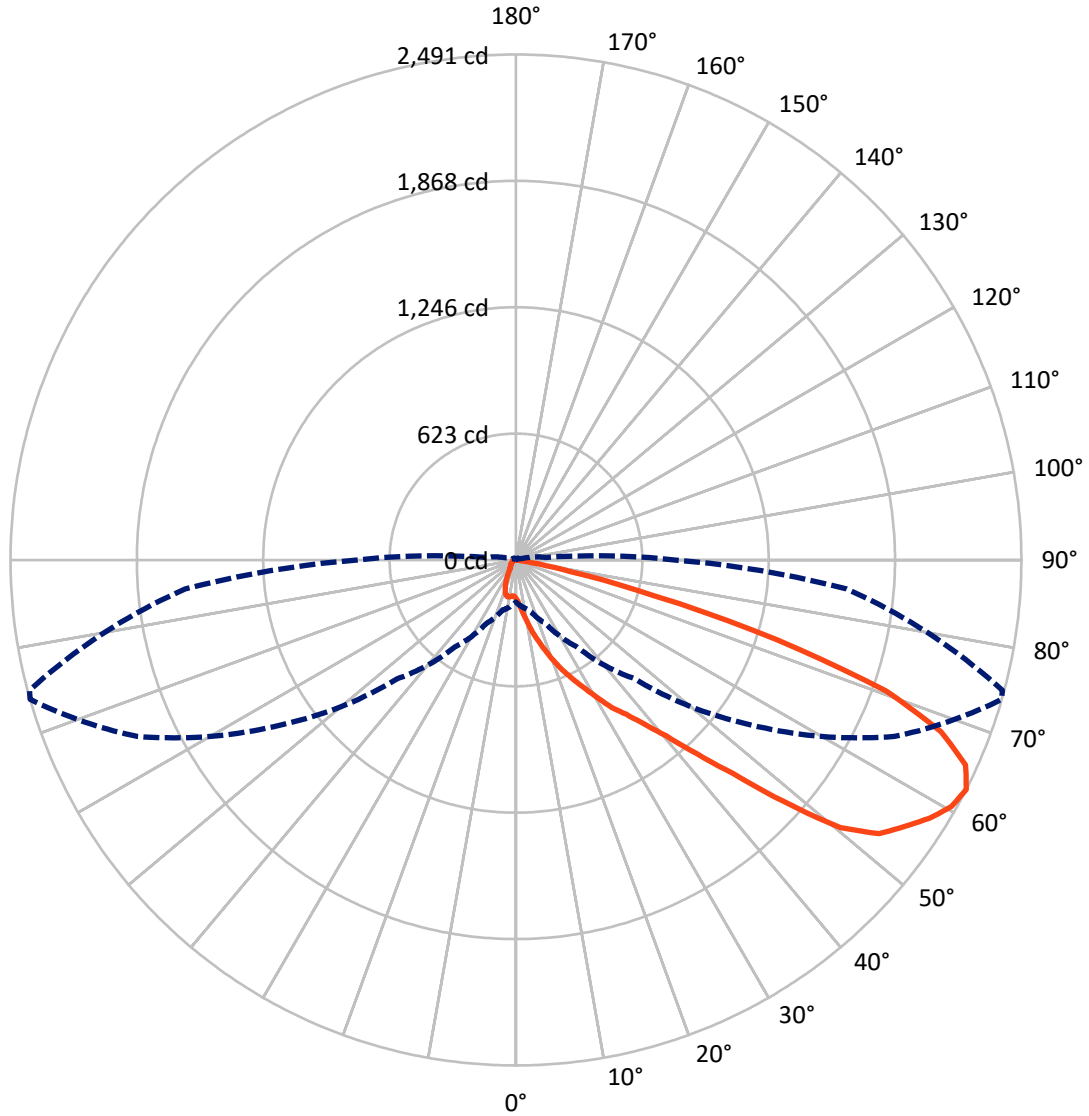
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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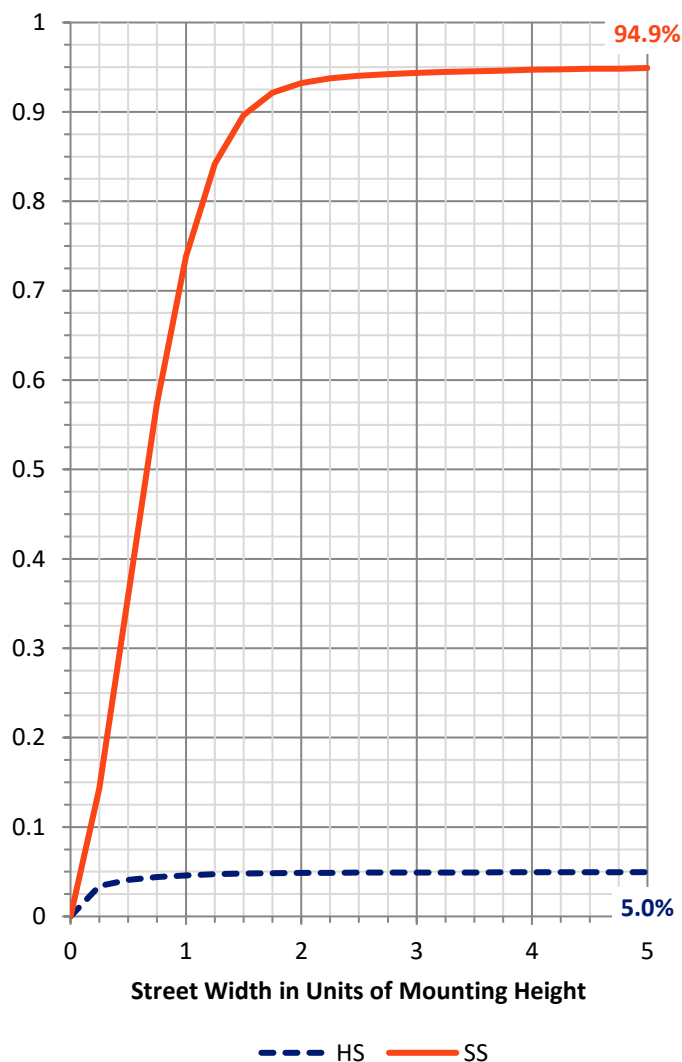
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	129.0	0.0	129.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	2458.0	0.0	2458.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	2587.0	0.0	2587.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	0.9
10°-20°	99.5	3.8
20°-30°	213.5	8.3
30°-40°	374.4	14.5
40°-50°	580.5	22.4
50°-60°	669.2	25.9
60°-70°	470.1	18.2
70°-80°	146.5	5.7
80°-90°	9.7	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°	2587.0	100.0
0°-180°	2587.0	100.0

Coefficient of Utilization



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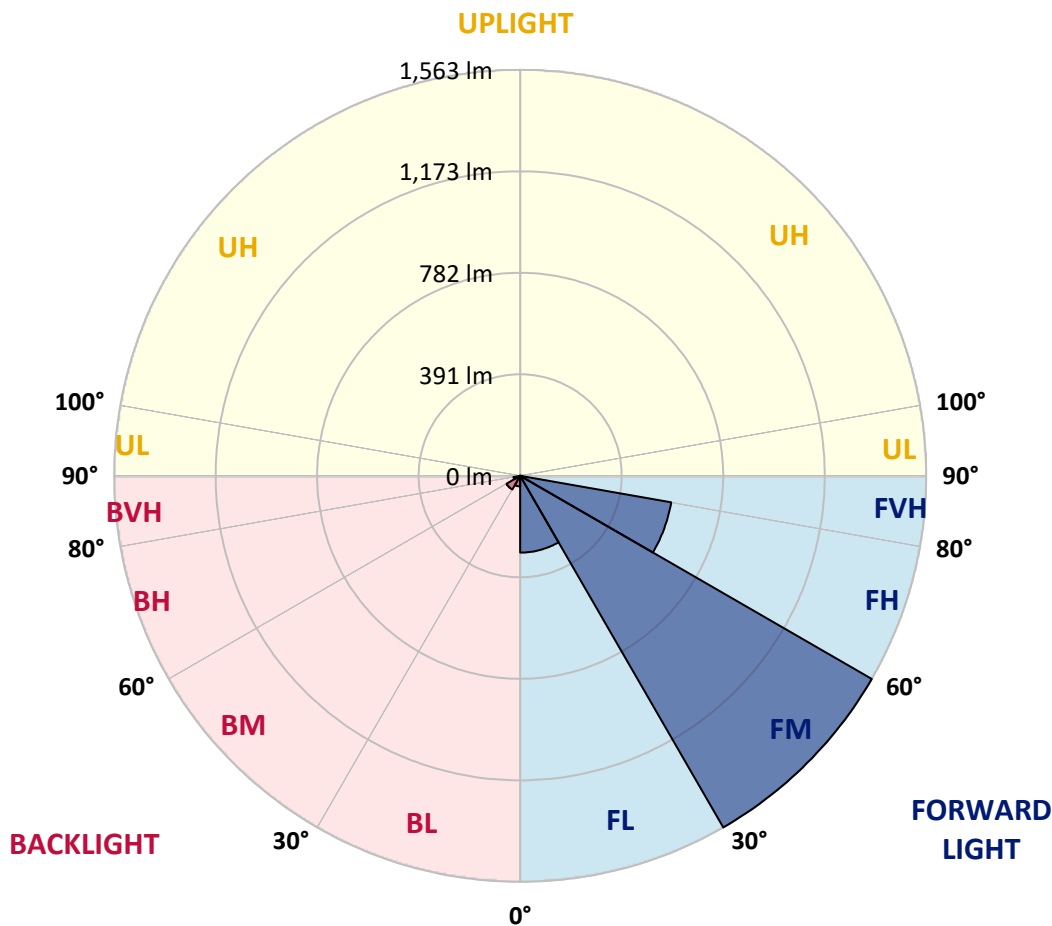
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.7	11.4			
FM (30°-60°)	1563.4	60.4			
FH (60°-80°)	590.5	22.8			G0/660
FVH (80°-90°)	8.4	0.3			G0/10
BL (0°-30°)	40.9	1.6	B0/110		
BM (30°-60°)	60.6	2.3	B0/220		
BH (60°-80°)	26.1	1.0	B0/110		G0/110
BVH (80°-90°)	1.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	189.4	189.4	189.4	189.4	189.4	189.4	189.4	189.4	189.4	189.4	189.4
2.5°	263.1	258.6	253.1	248.6	239.5	233.1	224.9	215.8	205.8	204.9	196.7
5°	368.7	355.1	355.1	343.2	329.6	305.0	282.2	254.0	233.1	231.3	209.4
7.5°	477.1	466.2	459.8	441.6	419.7	392.4	356.0	308.6	270.4	264.0	228.5
10°	578.1	569.9	558.1	543.5	524.4	479.8	434.3	372.4	311.4	306.8	251.3
12.5°	656.4	646.4	641.0	634.6	610.0	574.5	515.3	437.0	364.2	354.2	274.0
15°	715.6	711.1	705.6	705.6	692.9	658.3	597.3	506.2	415.2	403.3	303.2
17.5°	763.0	757.5	756.6	762.1	758.4	733.8	676.5	572.7	468.0	458.9	333.2
20°	815.8	808.5	808.5	813.0	812.1	798.5	748.4	649.2	529.9	513.5	367.8
22.5°	890.4	885.9	882.2	875.0	869.5	856.7	813.0	723.8	589.1	573.6	403.3
25°	990.6	985.1	968.7	956.0	932.3	913.2	875.9	790.3	649.2	631.9	437.9
27.5°	1088.0	1077.1	1061.6	1045.2	1018.8	986.0	939.6	853.1	712.0	693.8	473.4
30°	1190.9	1182.7	1163.6	1137.2	1104.4	1068.0	1012.4	928.7	783.9	763.9	511.7
32.5°	1272.8	1260.1	1242.8	1217.3	1183.6	1158.1	1098.0	1011.5	866.8	840.4	551.7
35°	1338.4	1328.4	1305.6	1281.0	1255.5	1248.2	1182.7	1078.9	933.2	908.6	594.5
37.5°	1380.3	1370.2	1351.1	1326.5	1316.5	1329.3	1286.5	1170.9	1022.5	991.5	643.7
40°	1413.0	1401.2	1385.7	1374.8	1371.2	1406.7	1402.1	1290.1	1139.9	1121.7	711.1
42.5°	1436.7	1424.9	1414.9	1413.9	1437.6	1506.8	1557.8	1456.7	1303.8	1266.5	797.6
45°	1406.7	1396.7	1402.1	1434.0	1491.3	1600.6	1746.3	1692.6	1501.4	1475.0	936.0
47.5°	1322.9	1316.5	1341.1	1399.4	1505.9	1658.0	1928.4	1951.1	1783.6	1743.5	1115.3
50°	1191.8	1190.9	1230.0	1309.2	1460.4	1679.8	2020.3	2199.7	2073.1	2032.2	1261.0
52.5°	1014.3	1010.6	1068.0	1178.1	1352.9	1638.8	2037.6	2298.9	2240.6	2192.4	1352.9
55°	813.0	804.8	873.1	994.2	1194.5	1519.6	1991.2	2320.8	2320.8	2277.1	1421.2
57.5°	571.8	584.5	641.0	786.6	998.8	1341.1	1876.5	2300.7	2401.8	2364.5	1513.2
60°	360.5	366.0	427.9	545.4	757.5	1102.6	1671.6	2214.2	2466.4	2444.6	1586.9
62.5°	207.6	224.9	255.8	345.1	522.6	828.5	1418.5	2058.6	2491.0	2481.9	1635.2
65°	126.6	128.4	142.9	194.8	321.4	565.4	1135.3	1841.9	2435.5	2443.7	1626.1
67.5°	94.7	94.7	99.2	122.9	183.0	359.6	837.6	1578.7	2257.9	2284.4	1540.5
70°	81.9	81.9	82.9	90.1	112.9	213.0	553.6	1272.8	1935.6	1932.9	1272.8
72.5°	64.6	67.4	72.8	76.5	85.6	124.7	324.1	889.5	1344.8	1376.6	819.4
75°	51.9	52.8	60.1	66.5	71.9	84.7	153.0	494.4	705.6	705.6	360.5
77.5°	40.1	41.9	46.4	52.8	60.1	60.1	63.7	191.2	273.1	264.0	106.5
80°	25.5	26.4	33.7	41.9	50.1	42.8	34.6	63.7	74.7	71.9	29.1
82.5°	15.5	16.4	21.9	33.7	33.7	23.7	21.9	26.4	23.7	21.9	11.8
85°	4.6	5.5	15.5	21.9	19.1	9.1	10.9	11.8	10.9	10.0	6.4
87.5°	0.9	0.9	4.6	5.5	4.6	4.6	3.6	4.6	4.6	4.6	2.7
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°	189.4	189.4	189.4	189.4	189.4	189.4	189.4	189.4	189.4	189.4	189.4
2.5°	192.1	188.5	181.2	175.7	171.2	166.6	163.0	162.1	160.2	160.2	159.3
5°	200.3	192.1	178.5	169.3	162.1	155.7	150.2	144.8	142.9	141.1	142.0
7.5°	213.0	200.3	181.2	167.5	154.8	140.2	128.4	118.4	111.1	109.3	106.5
10°	229.4	210.3	185.7	163.9	140.2	114.7	98.3	88.3	84.7	80.1	81.0
12.5°	245.8	222.2	189.4	153.9	115.6	90.1	76.5	70.1	67.4	66.5	67.4
15°	264.9	234.9	187.6	135.7	92.9	72.8	64.6	61.9	60.1	60.1	59.2
17.5°	284.1	245.8	181.2	112.0	74.7	61.9	58.3	55.5	53.7	52.8	52.8
20°	305.0	255.8	166.6	89.2	61.9	56.4	52.8	49.2	47.3	47.3	47.3
22.5°	326.9	263.1	147.5	71.0	55.5	50.1	46.4	43.7	41.9	41.9	41.9
25°	346.0	266.8	124.7	59.2	51.0	45.5	41.9	39.1	38.2	37.3	37.3
27.5°	364.2	265.9	101.1	51.9	45.5	41.0	37.3	35.5	33.7	33.7	33.7
30°	382.4	260.4	80.1	47.3	41.9	36.4	33.7	31.9	31.0	30.0	30.0
32.5°	397.9	251.3	62.8	43.7	38.2	32.8	30.0	28.2	28.2	27.3	27.3
35°	413.4	237.6	52.8	41.0	34.6	30.0	27.3	26.4	25.5	25.5	25.5
37.5°	429.7	220.3	46.4	37.3	31.0	27.3	25.5	24.6	23.7	22.8	22.8
40°	449.8	203.0	43.7	34.6	28.2	24.6	22.8	21.9	20.9	20.9	20.9
42.5°	481.6	188.5	41.0	31.0	25.5	22.8	20.9	19.1	19.1	18.2	18.2
45°	541.7	183.0	38.2	28.2	23.7	20.0	19.1	17.3	16.4	16.4	16.4
47.5°	620.0	183.9	35.5	25.5	21.9	18.2	17.3	16.4	14.6	14.6	14.6
50°	684.7	179.4	32.8	23.7	19.1	17.3	15.5	14.6	13.7	13.7	13.7
52.5°	710.2	171.2	30.0	21.9	18.2	15.5	14.6	13.7	12.7	12.7	12.7
55°	735.7	167.5	27.3	19.1	16.4	15.5	13.7	12.7	11.8	10.9	10.9
57.5°	782.1	169.3	24.6	18.2	15.5	14.6	12.7	10.9	9.1	8.2	8.2
60°	806.7	163.0	22.8	16.4	14.6	13.7	10.9	8.2	6.4	5.5	5.5
62.5°	785.7	144.8	20.9	15.5	13.7	11.8	8.2	6.4	4.6	2.7	2.7
65°	727.5	119.3	19.1	14.6	11.8	9.1	7.3	4.6	2.7	1.8	1.8
67.5°	653.7	93.8	17.3	13.7	10.9	8.2	6.4	3.6	1.8	0.9	0.9
70°	528.1	67.4	16.4	12.7	10.0	7.3	5.5	3.6	1.8	0.9	0.9
72.5°	340.5	43.7	14.6	11.8	9.1	7.3	4.6	2.7	1.8	0.9	0.9
75°	157.5	29.1	13.7	10.9	9.1	6.4	4.6	3.6	1.8	0.9	0.9
77.5°	46.4	20.9	12.7	10.0	8.2	6.4	4.6	3.6	1.8	0.9	0.9
80°	19.1	14.6	10.0	9.1	8.2	6.4	4.6	3.6	1.8	0.9	0.9
82.5°	9.1	6.4	4.6	3.6	4.6	4.6	3.6	3.6	1.8	0.9	0.9
85°	4.6	2.7	1.8	1.8	1.8	0.9	0.9	1.8	1.8	0.9	0.9
87.5°	2.7	1.8	1.8	1.8	0.9	0.9	0.9	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)