

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: P572970

Luminaire Tested: **ARCH-S-PA2-20-727-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
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-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 220mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2122 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

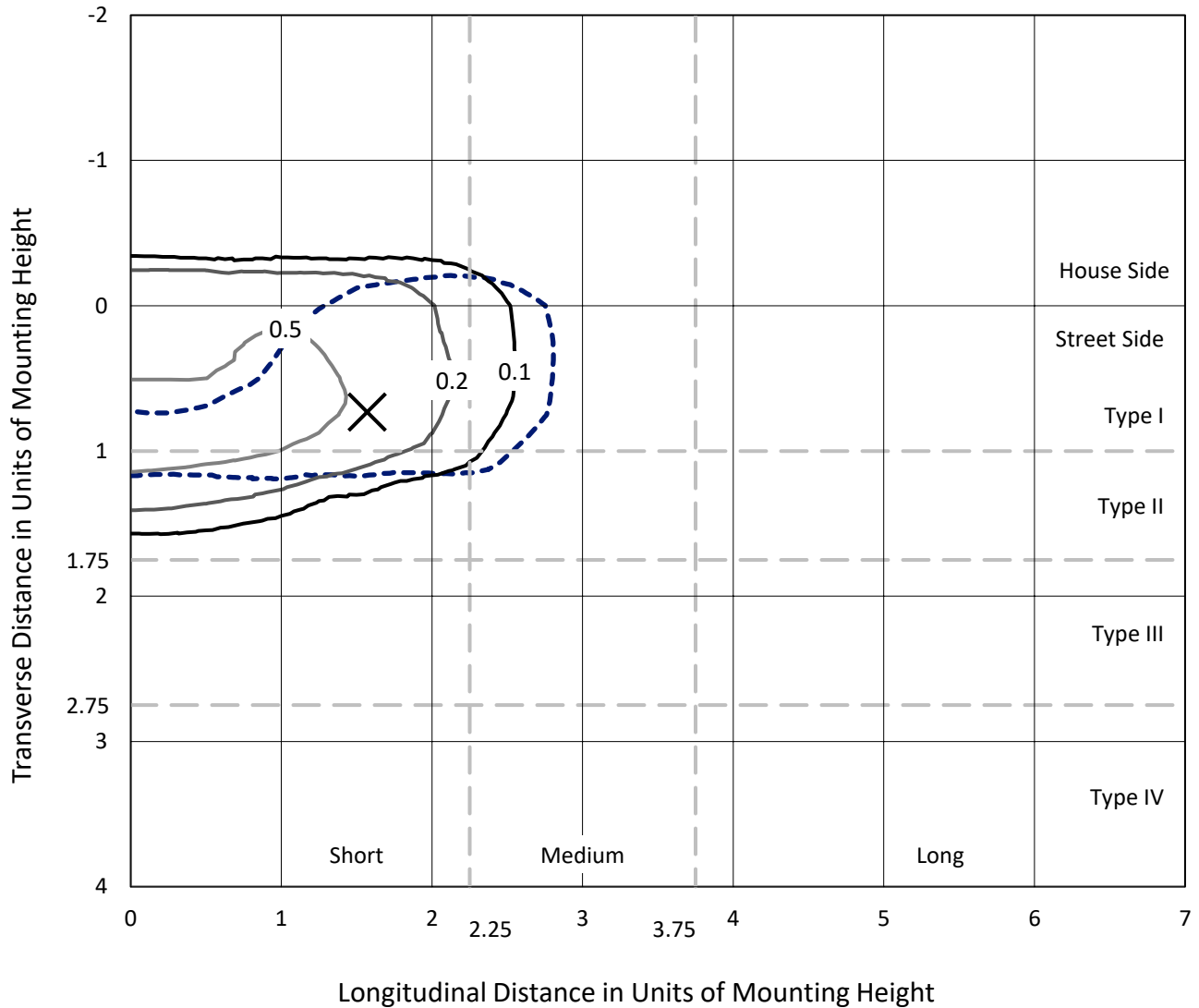
Input Watts (W): 23.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

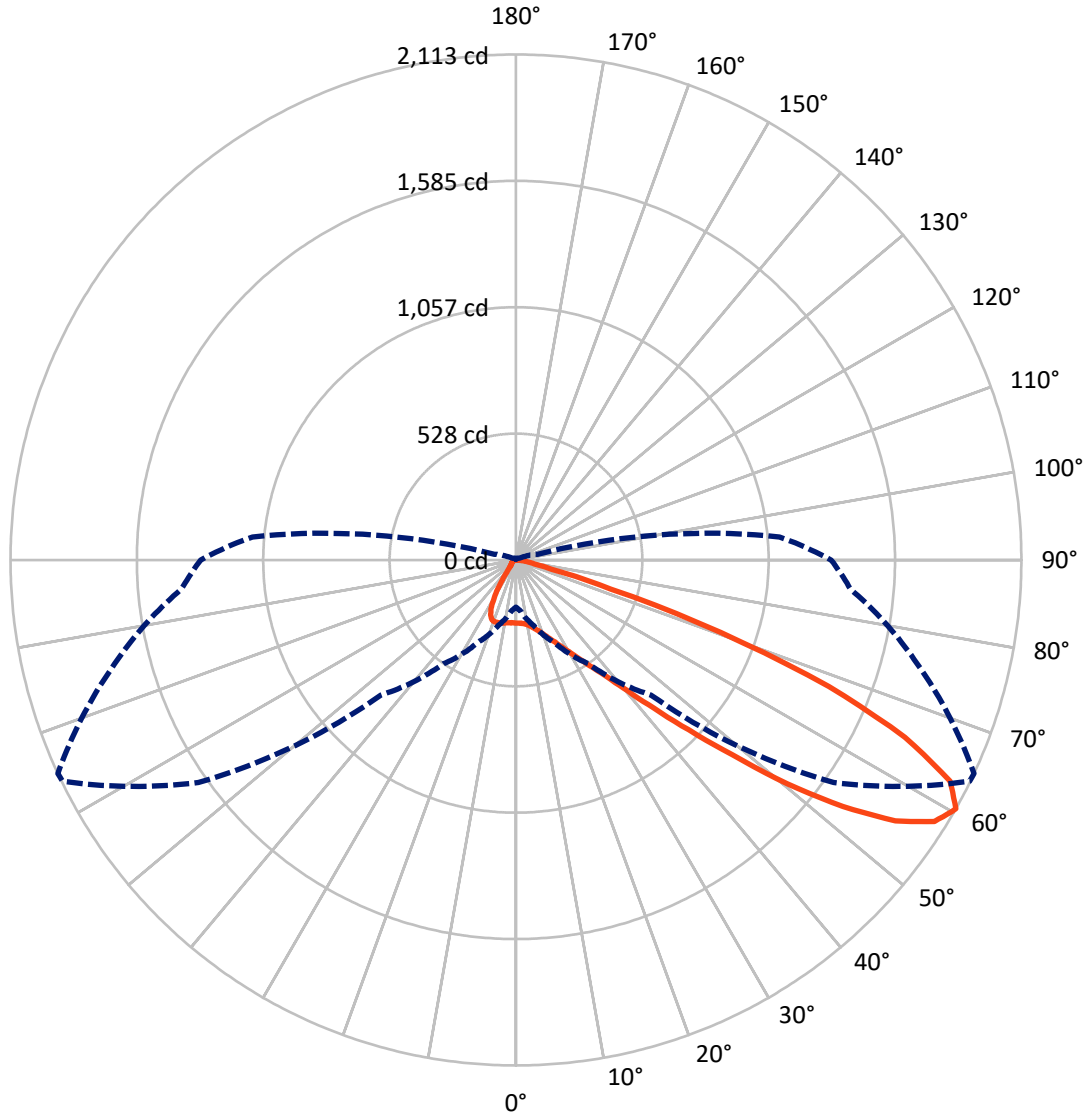
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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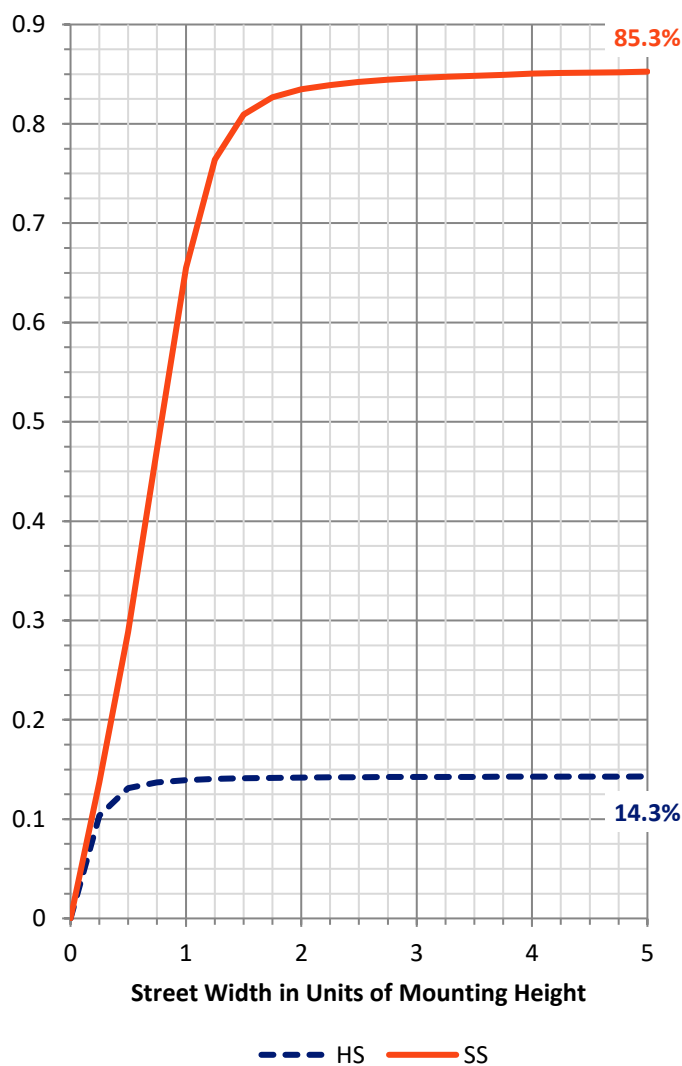
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	307.2	0.0	307.2
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	1814.8	0.0	1814.8
	% Fixture	85.5	0.0	85.5
Total	Lumens	2122.0	0.0	2122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.0	1.2
10°-20°	70.9	3.3
20°-30°	120.4	5.7
30°-40°	248.4	11.7
40°-50°	499.7	23.5
50°-60°	611.4	28.8
60°-70°	432.6	20.4
70°-80°	104.2	4.9
80°-90°	9.4	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°	2122.0	100.0
0°-180°	2122.0	100.0

Coefficient of Utilization

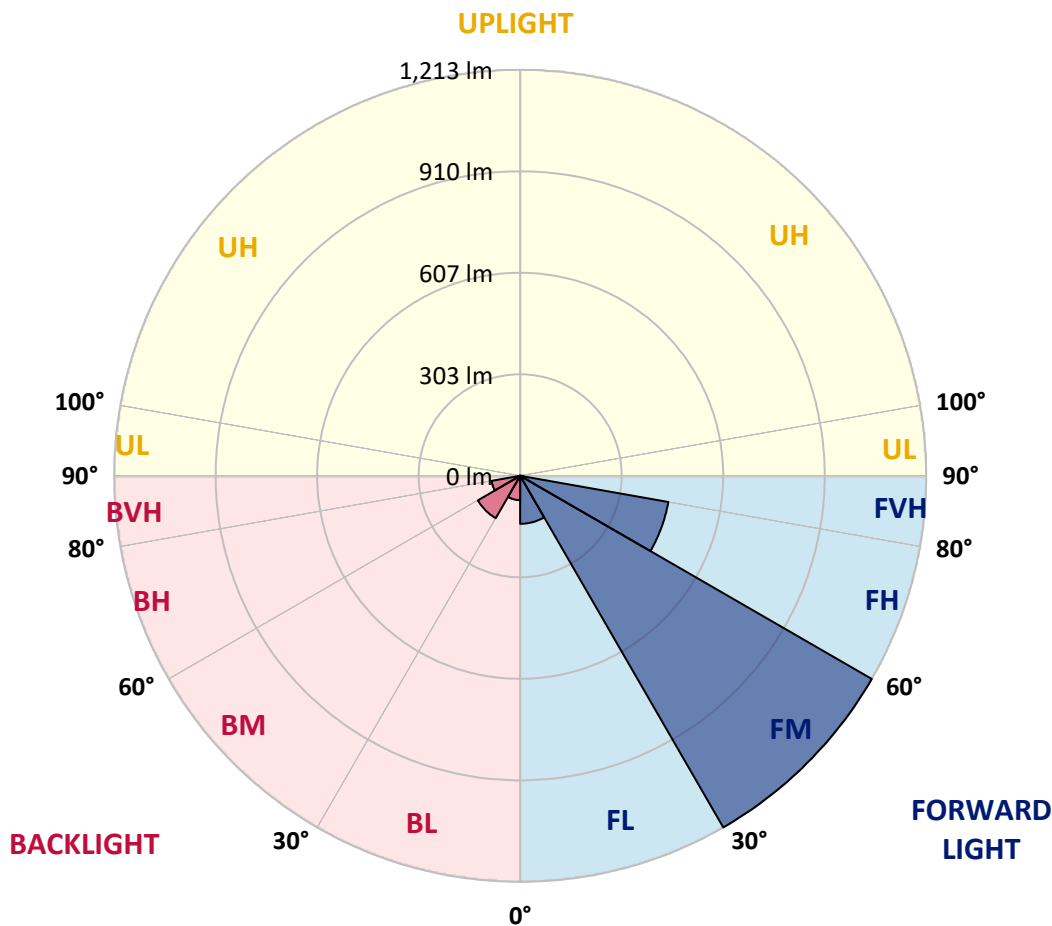


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	143.4	6.8			
FM (30°-60°)	1213.5	57.2			
FH (60°-80°)	449.7	21.2			G0/660
FVH (80°-90°)	8.2	0.4			G0/10
BL (0°-30°)	72.8	3.4	B0/110		
BM (30°-60°)	146.1	6.9	B0/220		
BH (60°-80°)	87.1	4.1	B0/110		G0/110
BVH (80°-90°)	1.2	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





REPORT NUMBER: P572970

CATALOG NUMBER: ARCH-S-PA2-20-727-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3
2.5°	265.2	264.3	264.3	264.3	265.2	265.2	266.0	264.3	264.3	264.3	264.3
5°	263.5	262.7	262.7	263.5	264.3	264.3	266.0	266.0	266.0	266.9	266.9
7.5°	266.9	265.2	265.2	266.0	266.9	266.9	268.5	269.4	269.4	271.0	271.9
10°	271.0	270.2	270.2	271.9	273.6	273.6	276.1	276.1	276.1	277.7	278.6
12.5°	276.9	276.1	276.1	278.6	281.1	282.8	284.4	285.3	286.1	286.1	286.1
15°	285.3	284.4	284.4	286.9	290.3	294.5	297.0	297.0	298.6	297.8	294.5
17.5°	297.0	296.1	297.0	298.6	302.8	307.0	312.0	312.9	312.0	310.4	305.3
20°	316.2	313.7	315.4	319.6	319.6	322.1	328.8	331.3	332.1	327.1	317.9
22.5°	336.3	336.3	338.0	343.0	339.6	343.0	348.8	353.0	354.7	350.5	335.5
25°	373.9	375.6	373.1	371.4	363.1	364.7	372.3	380.6	380.6	377.3	355.5
27.5°	456.8	455.1	437.5	413.3	391.5	393.2	400.7	411.6	412.4	404.9	375.6
30°	575.5	577.2	542.9	487.7	440.0	427.5	435.8	448.4	450.1	437.5	401.5
32.5°	761.3	747.0	683.5	609.8	520.3	475.2	478.5	491.9	496.9	486.0	442.5
35°	1001.3	967.9	872.5	781.3	651.7	560.5	534.6	548.8	551.3	545.4	493.6
37.5°	1144.4	1117.6	1055.7	972.9	820.7	674.3	608.2	622.4	619.9	608.2	544.6
40°	1233.1	1218.0	1184.5	1146.1	1049.0	853.3	729.5	717.8	718.6	701.9	627.4
42.5°	1283.3	1269.9	1257.3	1267.4	1238.9	1177.9	905.1	851.6	846.6	814.8	723.6
45°	1285.8	1265.7	1280.8	1339.3	1384.5	1465.6	1134.4	1010.5	1013.1	960.4	843.2
47.5°	1189.6	1173.7	1217.2	1331.8	1481.5	1653.8	1401.2	1228.0	1216.3	1112.6	964.5
50°	999.7	998.8	1056.6	1218.8	1481.5	1750.9	1687.3	1483.2	1470.6	1271.5	1075.0
52.5°	791.4	807.3	846.6	1000.5	1345.2	1741.7	1898.1	1746.7	1711.6	1412.9	1167.0
55°	615.7	609.8	657.5	763.8	1066.6	1582.7	1966.7	1954.2	1924.9	1538.4	1248.1
57.5°	378.1	399.9	464.3	558.8	776.3	1244.8	1868.0	2080.5	2062.9	1655.5	1332.6
60°	196.6	213.3	282.8	381.5	530.4	798.1	1621.2	2109.8	2113.1	1750.1	1404.6
62.5°	123.8	123.0	154.8	267.7	341.3	448.4	1259.0	2006.0	2037.8	1822.8	1473.2
65°	92.9	93.7	106.2	177.3	231.7	234.2	747.0	1735.0	1787.7	1842.1	1496.6
67.5°	86.2	87.0	92.9	116.3	174.0	156.4	328.8	1337.6	1411.3	1664.7	1406.2
70°	77.0	77.8	87.0	96.2	131.3	114.6	148.1	805.6	907.7	1208.0	1125.2
72.5°	60.2	61.9	72.8	91.2	97.9	87.0	102.9	356.4	415.8	664.2	644.1
75°	44.3	45.2	55.2	70.3	86.2	61.9	79.5	141.4	154.8	249.3	212.5
77.5°	31.0	31.0	38.5	52.7	71.9	43.5	56.9	76.1	77.8	92.9	61.1
80°	19.2	20.1	24.3	36.0	44.3	41.8	35.1	51.0	51.0	48.5	25.1
82.5°	10.9	11.7	16.7	24.3	30.1	28.4	22.6	29.3	30.1	31.0	14.2
85°	5.0	5.9	10.0	15.1	17.6	13.4	13.4	15.1	15.1	20.1	8.4
87.5°	0.8	0.8	5.0	6.7	5.9	6.7	6.7	8.4	8.4	10.0	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P572970
 CATALOG NUMBER: ARCH-S-PA2-20-727-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3	264.3
2.5°	263.5	263.5	263.5	262.7	262.7	261.8	260.2	260.2	260.2	260.2	261.0
5°	266.9	266.0	265.2	262.7	261.0	257.7	254.3	253.5	251.0	251.0	251.8
7.5°	271.0	271.0	268.5	264.3	260.2	254.3	248.5	244.3	240.1	239.3	238.4
10°	278.6	276.9	274.4	266.9	260.2	251.0	241.8	230.9	222.5	218.3	216.7
12.5°	284.4	283.6	278.6	270.2	259.3	245.1	224.2	199.1	179.0	168.1	168.1
15°	292.8	291.1	283.6	271.9	256.8	223.4	180.7	142.2	120.5	108.8	107.1
17.5°	301.2	297.8	288.6	272.7	245.9	184.0	126.3	91.2	76.1	70.3	68.6
20°	311.2	305.3	292.0	273.6	219.2	133.8	82.0	61.1	55.2	52.7	53.5
22.5°	324.6	314.5	295.3	268.5	179.0	87.0	57.7	49.4	46.0	43.5	43.5
25°	341.3	327.1	301.2	254.3	129.7	58.6	46.0	41.0	37.6	36.0	35.1
27.5°	356.4	338.8	307.0	229.2	82.8	46.0	38.5	34.3	31.0	30.1	29.3
30°	376.4	352.2	312.9	189.1	54.4	37.6	32.6	28.4	25.9	25.1	25.1
32.5°	410.7	378.1	323.7	143.9	41.0	32.6	27.6	24.3	22.6	21.8	21.8
35°	450.9	409.9	332.9	100.4	35.1	27.6	23.4	20.9	20.1	19.2	19.2
37.5°	492.7	447.6	334.6	63.6	31.0	24.3	20.9	19.2	17.6	17.6	17.6
40°	568.0	513.6	327.1	42.7	26.8	21.8	18.4	17.6	15.9	15.9	15.9
42.5°	655.9	593.9	307.8	34.3	24.3	19.2	17.6	15.9	14.2	14.2	13.4
45°	769.6	685.1	275.2	30.1	21.8	17.6	15.9	14.2	13.4	12.5	12.5
47.5°	876.7	788.9	244.3	26.8	20.1	16.7	14.2	12.5	11.7	11.7	11.7
50°	978.8	868.3	208.3	25.1	18.4	15.9	13.4	11.7	10.9	10.0	10.0
52.5°	1052.4	931.1	174.8	22.6	16.7	14.2	12.5	10.9	9.2	8.4	8.4
55°	1134.4	994.7	144.7	20.1	15.9	13.4	10.9	9.2	7.5	6.7	6.7
57.5°	1226.4	1056.6	117.1	18.4	15.1	11.7	9.2	7.5	5.9	5.0	5.0
60°	1317.6	1105.9	93.7	16.7	13.4	10.9	8.4	5.9	4.2	3.3	3.3
62.5°	1408.7	1139.4	71.9	15.1	12.5	9.2	6.7	4.2	2.5	1.7	1.7
65°	1446.4	1130.2	53.5	13.4	10.9	7.5	5.9	4.2	2.5	1.7	1.7
67.5°	1341.8	1016.4	37.6	13.4	10.0	7.5	5.0	3.3	1.7	0.8	0.8
70°	1047.4	784.7	27.6	13.4	10.0	7.5	5.0	3.3	1.7	0.8	0.8
72.5°	593.9	436.7	20.9	11.7	9.2	6.7	5.0	3.3	1.7	0.8	0.8
75°	211.6	140.5	15.9	10.9	8.4	5.9	5.0	3.3	1.7	0.8	0.8
77.5°	51.0	36.0	12.5	9.2	7.5	5.9	4.2	3.3	2.5	0.8	0.8
80°	20.9	15.1	10.0	7.5	5.9	5.0	4.2	3.3	1.7	0.8	0.8
82.5°	9.2	7.5	4.2	4.2	3.3	3.3	3.3	3.3	1.7	0.8	0.8
85°	4.2	3.3	1.7	1.7	0.8	0.8	0.8	1.7	1.7	0.8	0.8
87.5°	2.5	1.7	1.7	1.7	0.8	0.8	0.8	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)