

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: P573213

Luminaire Tested: **ARCH-S-PA2-50-727-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573213
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-PA2-50-727-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA 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: 4605 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

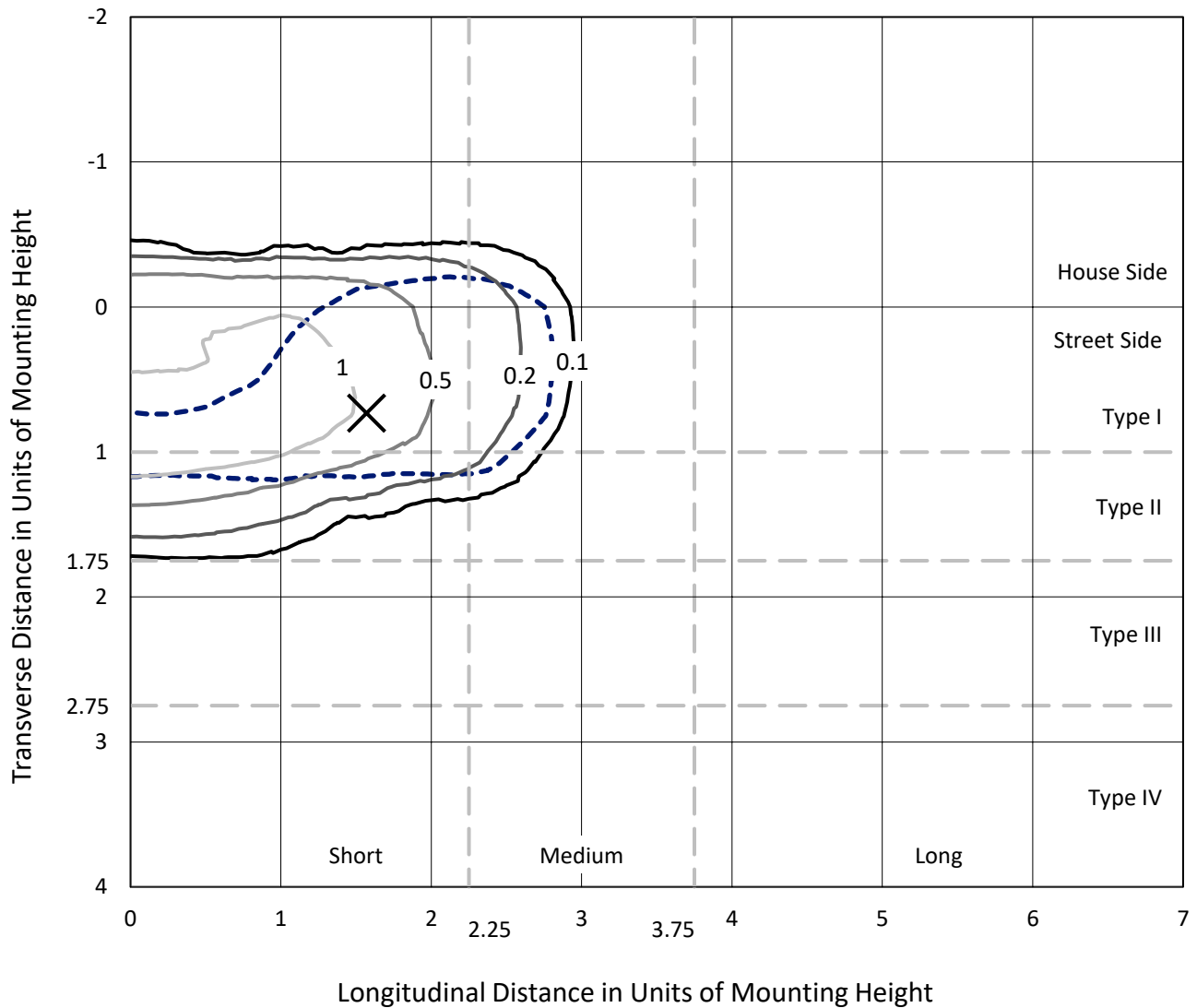
Input Watts (W): 53.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

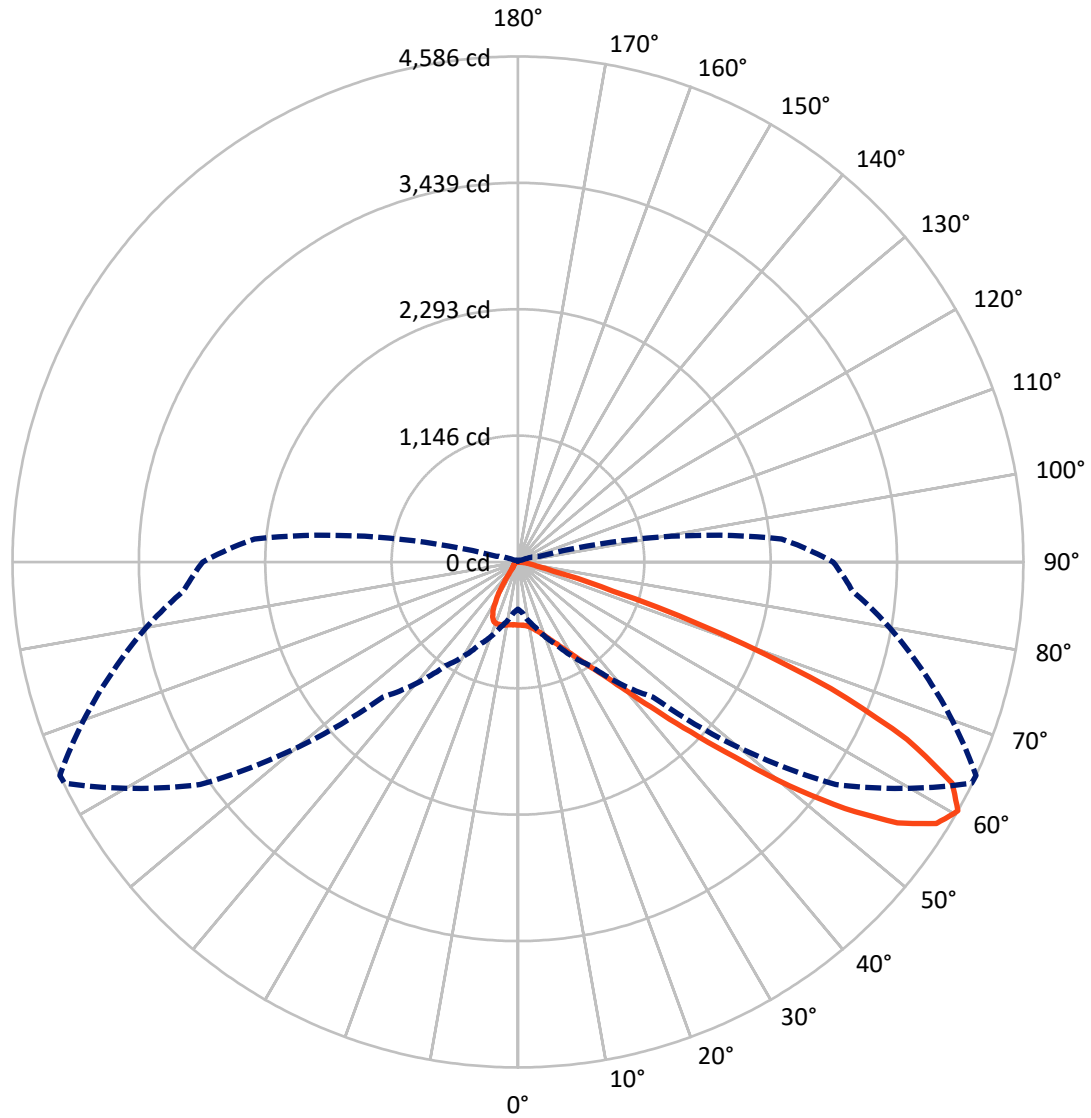
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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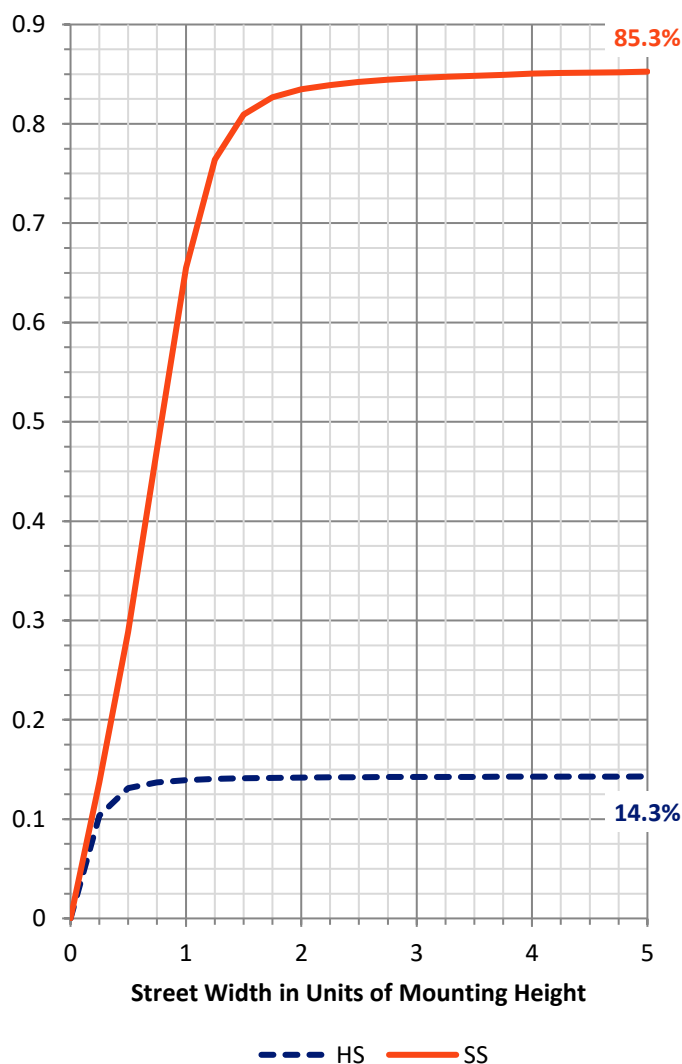
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	666.7	0.0	666.7
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	3938.3	0.0	3938.3
	% Fixture	85.5	0.0	85.5
Total	Lumens	4605.0	0.0	4605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.2	1.2
10°-20°	153.8	3.3
20°-30°	261.3	5.7
30°-40°	539.2	11.7
40°-50°	1084.3	23.5
50°-60°	1326.9	28.8
60°-70°	938.7	20.4
70°-80°	226.2	4.9
80°-90°	20.4	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°	4605.0	100.0
0°-180°	4605.0	100.0

Coefficient of Utilization

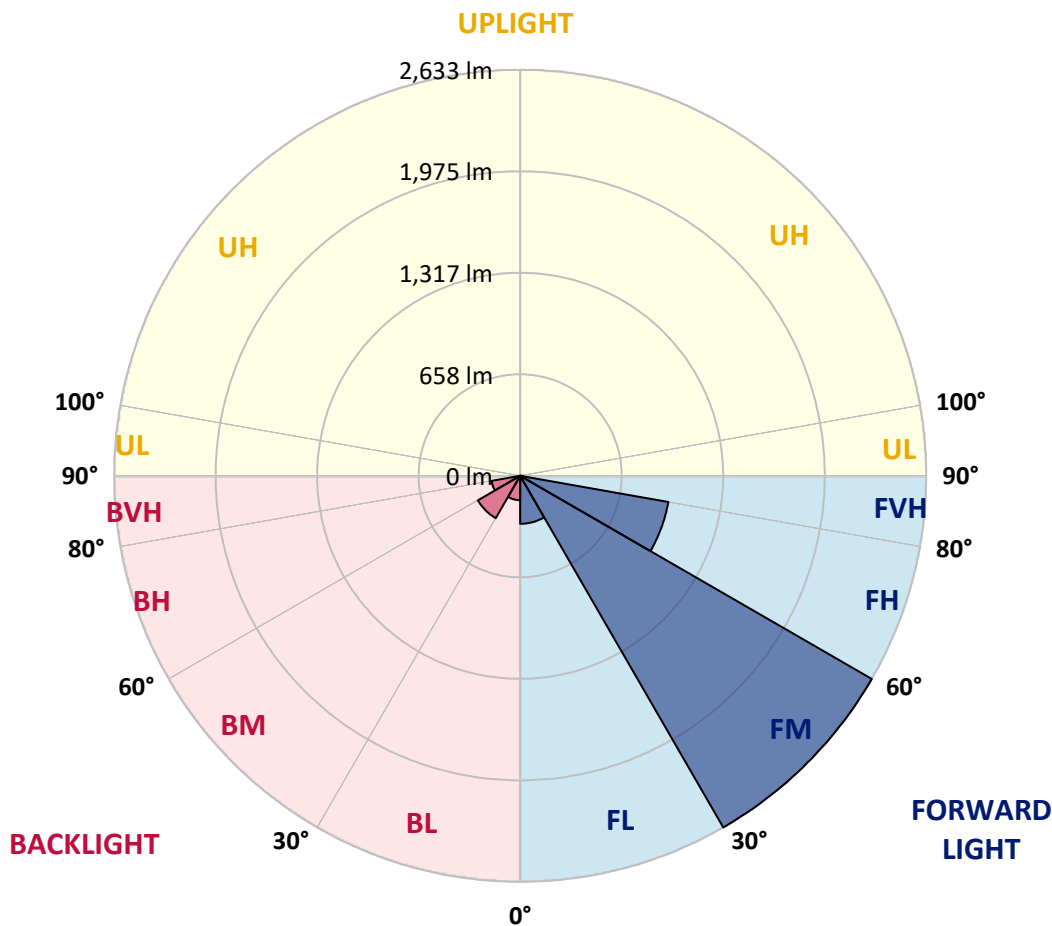


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.3	6.8			
FM (30°-60°)	2633.3	57.2			
FH (60°-80°)	975.9	21.2			G1/1800
FVH (80°-90°)	17.8	0.4			G1/100
BL (0°-30°)	158.1	3.4	B1/500		
BM (30°-60°)	317.0	6.9	B1/1000		
BH (60°-80°)	189.0	4.1	B1/500		G1/500
BVH (80°-90°)	2.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
2.5°	575.5	573.7	573.7	573.7	575.5	575.5	577.3	573.7	573.7	573.7	573.7
5°	571.9	570.0	570.0	571.9	573.7	573.7	577.3	577.3	577.3	579.1	579.1
7.5°	579.1	575.5	575.5	577.3	579.1	579.1	582.7	584.6	584.6	588.2	590.0
10°	588.2	586.4	586.4	590.0	593.6	593.6	599.1	599.1	599.1	602.7	604.5
12.5°	600.9	599.1	599.1	604.5	610.0	613.6	617.2	619.1	620.9	620.9	620.9
15°	619.1	617.2	617.2	622.7	629.9	639.0	644.5	644.5	648.1	646.3	639.0
17.5°	644.5	642.7	644.5	648.1	657.2	666.3	677.1	679.0	677.1	673.5	662.6
20°	686.2	680.8	684.4	693.5	693.5	698.9	713.5	718.9	720.7	709.8	689.9
22.5°	729.8	729.8	733.4	744.3	737.1	744.3	757.0	766.1	769.7	760.7	728.0
25°	811.5	815.1	809.7	806.0	787.9	791.5	807.9	826.0	826.0	818.7	771.5
27.5°	991.2	987.6	949.5	896.8	849.6	853.2	869.6	893.2	895.0	878.7	815.1
30°	1249.0	1252.6	1178.2	1058.4	954.9	927.7	945.8	973.1	976.7	949.5	871.4
32.5°	1652.0	1621.2	1483.2	1323.4	1129.2	1031.1	1038.4	1067.5	1078.4	1054.8	960.3
35°	2173.0	2100.4	1893.5	1695.6	1414.2	1216.3	1160.0	1190.9	1196.4	1183.6	1071.1
37.5°	2483.5	2425.4	2291.0	2111.3	1780.9	1463.2	1319.8	1350.7	1345.2	1319.8	1181.8
40°	2675.9	2643.2	2570.6	2487.1	2276.5	1851.7	1583.0	1557.6	1559.4	1523.1	1361.6
42.5°	2784.8	2755.8	2728.6	2750.3	2688.6	2556.1	1964.3	1848.1	1837.2	1768.2	1570.3
45°	2790.3	2746.7	2779.4	2906.5	3004.5	3180.6	2461.7	2193.0	2198.5	2084.1	1829.9
47.5°	2581.5	2547.0	2641.4	2890.1	3215.1	3589.1	3040.8	2665.0	2639.6	2414.5	2093.2
50°	2169.4	2167.6	2292.9	2645.0	3215.1	3799.6	3661.7	3218.7	3191.5	2759.4	2332.8
52.5°	1717.4	1751.9	1837.2	2171.2	2919.2	3779.7	4119.2	3790.6	3714.3	3066.2	2532.5
55°	1336.1	1323.4	1426.9	1657.5	2314.6	3434.7	4268.0	4240.8	4177.2	3338.5	2708.6
57.5°	820.6	867.8	1007.5	1212.7	1684.7	2701.3	4053.8	4514.9	4476.8	3592.7	2891.9
60°	426.6	462.9	613.6	827.8	1151.0	1731.9	3518.3	4578.5	4585.7	3797.8	3048.1
62.5°	268.7	266.9	335.8	580.9	740.7	973.1	2732.2	4353.3	4422.3	3955.8	3196.9
65°	201.5	203.3	230.6	384.9	502.9	508.3	1621.2	3765.1	3879.5	3997.5	3247.8
67.5°	187.0	188.8	201.5	252.3	377.6	339.5	713.5	2902.8	3062.6	3612.7	3051.7
70°	167.0	168.8	188.8	208.8	285.0	248.7	321.3	1748.2	1969.7	2621.4	2441.7
72.5°	130.7	134.3	157.9	197.9	212.4	188.8	223.3	773.4	902.3	1441.4	1397.9
75°	96.2	98.0	119.8	152.5	187.0	134.3	172.5	306.8	335.8	541.0	461.1
77.5°	67.2	67.2	83.5	114.4	156.1	94.4	123.4	165.2	168.8	201.5	132.5
80°	41.8	43.6	52.6	78.1	96.2	90.8	76.2	110.7	110.7	105.3	54.5
82.5°	23.6	25.4	36.3	52.6	65.4	61.7	49.0	63.5	65.4	67.2	30.9
85°	10.9	12.7	21.8	32.7	38.1	29.0	29.0	32.7	32.7	43.6	18.2
87.5°	1.8	1.8	10.9	14.5	12.7	14.5	14.5	18.2	18.2	21.8	9.1
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°	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7	573.7
2.5°	571.9	571.9	571.9	570.0	570.0	568.2	564.6	564.6	564.6	564.6	566.4
5°	579.1	577.3	575.5	570.0	566.4	559.1	551.9	550.1	544.6	544.6	546.4
7.5°	588.2	588.2	582.7	573.7	564.6	551.9	539.2	530.1	521.0	519.2	517.4
10°	604.5	600.9	595.5	579.1	564.6	544.6	524.7	501.1	482.9	473.8	470.2
12.5°	617.2	615.4	604.5	586.4	562.8	531.9	486.5	432.1	388.5	364.9	364.9
15°	635.4	631.8	615.4	590.0	557.3	484.7	392.1	308.6	261.4	236.0	232.4
17.5°	653.5	646.3	626.3	591.8	533.7	399.4	274.1	197.9	165.2	152.5	148.9
20°	675.3	662.6	633.6	593.6	475.6	290.5	177.9	132.5	119.8	114.4	116.2
22.5°	704.4	682.6	640.8	582.7	388.5	188.8	125.3	107.1	99.8	94.4	94.4
25°	740.7	709.8	653.5	551.9	281.4	127.1	99.8	89.0	81.7	78.1	76.2
27.5°	773.4	735.2	666.3	497.4	179.7	99.8	83.5	74.4	67.2	65.4	63.5
30°	816.9	764.3	679.0	410.3	118.0	81.7	70.8	61.7	56.3	54.5	54.5
32.5°	891.4	820.6	702.6	312.2	89.0	70.8	59.9	52.6	49.0	47.2	47.2
35°	978.5	889.5	722.5	217.8	76.2	59.9	50.8	45.4	43.6	41.8	41.8
37.5°	1069.3	971.2	726.2	138.0	67.2	52.6	45.4	41.8	38.1	38.1	38.1
40°	1232.7	1114.7	709.8	92.6	58.1	47.2	39.9	38.1	34.5	34.5	34.5
42.5°	1423.3	1288.9	668.1	74.4	52.6	41.8	38.1	34.5	30.9	30.9	29.0
45°	1670.2	1486.8	597.3	65.4	47.2	38.1	34.5	30.9	29.0	27.2	27.2
47.5°	1902.5	1711.9	530.1	58.1	43.6	36.3	30.9	27.2	25.4	25.4	25.4
50°	2124.0	1884.4	452.0	54.5	39.9	34.5	29.0	25.4	23.6	21.8	21.8
52.5°	2283.8	2020.5	379.4	49.0	36.3	30.9	27.2	23.6	20.0	18.2	18.2
55°	2461.7	2158.5	314.1	43.6	34.5	29.0	23.6	20.0	16.3	14.5	14.5
57.5°	2661.4	2292.9	254.2	39.9	32.7	25.4	20.0	16.3	12.7	10.9	10.9
60°	2859.3	2400.0	203.3	36.3	29.0	23.6	18.2	12.7	9.1	7.3	7.3
62.5°	3057.1	2472.6	156.1	32.7	27.2	20.0	14.5	9.1	5.4	3.6	3.6
65°	3138.8	2452.6	116.2	29.0	23.6	16.3	12.7	9.1	5.4	3.6	3.6
67.5°	2911.9	2205.7	81.7	29.0	21.8	16.3	10.9	7.3	3.6	1.8	1.8
70°	2272.9	1702.8	59.9	29.0	21.8	16.3	10.9	7.3	3.6	1.8	1.8
72.5°	1288.9	947.6	45.4	25.4	20.0	14.5	10.9	7.3	3.6	1.8	1.8
75°	459.3	305.0	34.5	23.6	18.2	12.7	10.9	7.3	3.6	1.8	1.8
77.5°	110.7	78.1	27.2	20.0	16.3	12.7	9.1	7.3	5.4	1.8	1.8
80°	45.4	32.7	21.8	16.3	12.7	10.9	9.1	7.3	3.6	1.8	1.8
82.5°	20.0	16.3	9.1	9.1	7.3	7.3	7.3	7.3	3.6	1.8	1.8
85°	9.1	7.3	3.6	3.6	1.8	1.8	1.8	3.6	3.6	1.8	1.8
87.5°	5.4	3.6	3.6	3.6	1.8	1.8	1.8	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)