

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: P572725

Luminaire Tested: **ARCH-S-PA2-110-727-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572725
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-PA2-110-727-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1105mA 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: 9675 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

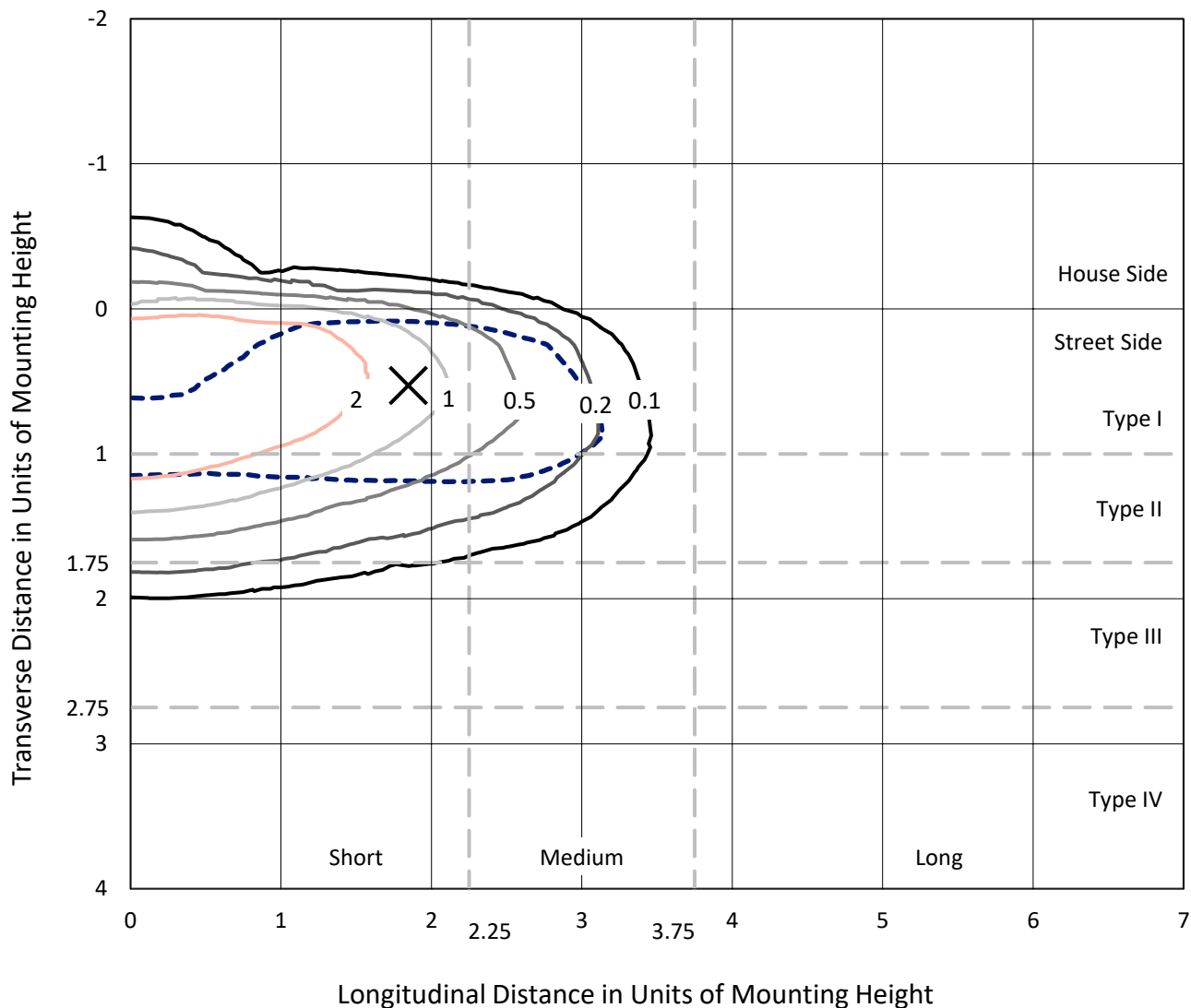
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

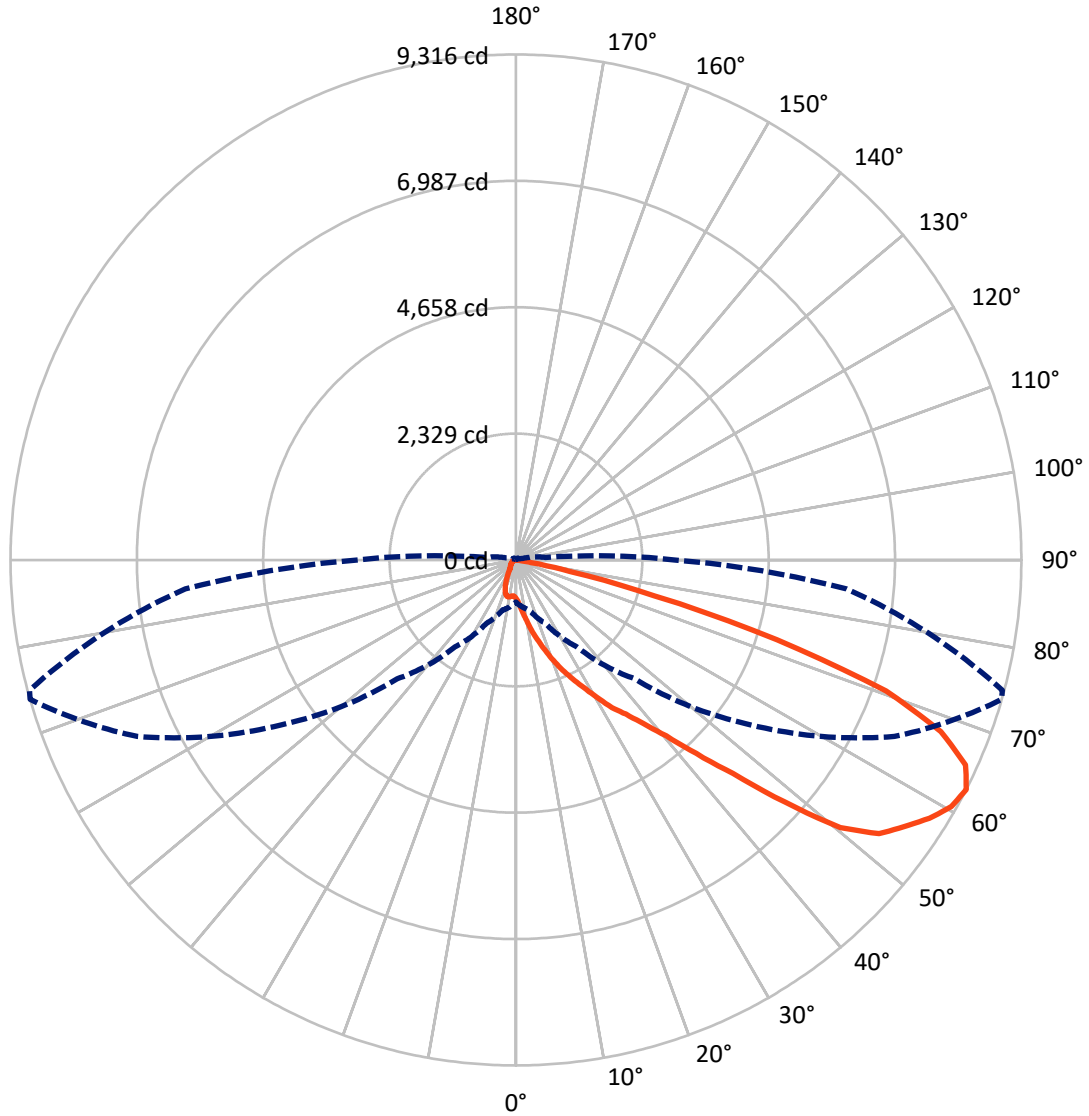
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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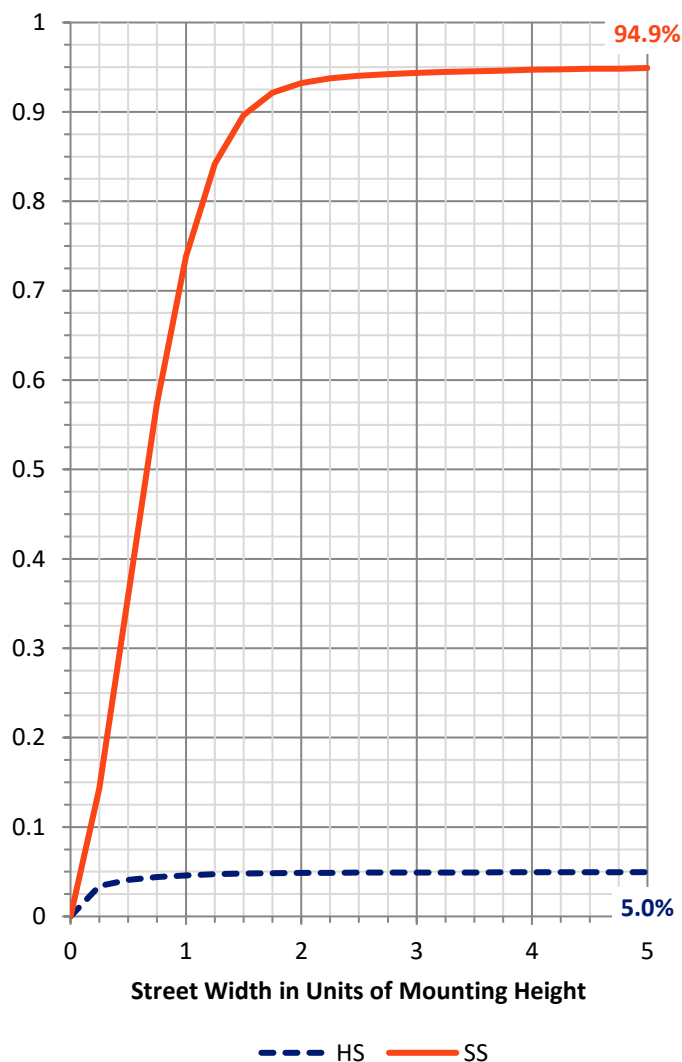
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	482.5	0.0	482.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9192.5	0.0	9192.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	9675.0	0.0	9675.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	0.9
10°-20°	372.0	3.8
20°-30°	798.4	8.3
30°-40°	1400.3	14.5
40°-50°	2170.9	22.4
50°-60°	2502.7	25.9
60°-70°	1758.2	18.2
70°-80°	547.8	5.7
80°-90°	36.2	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°	9675.0	100.0
0°-180°	9675.0	100.0

Coefficient of Utilization

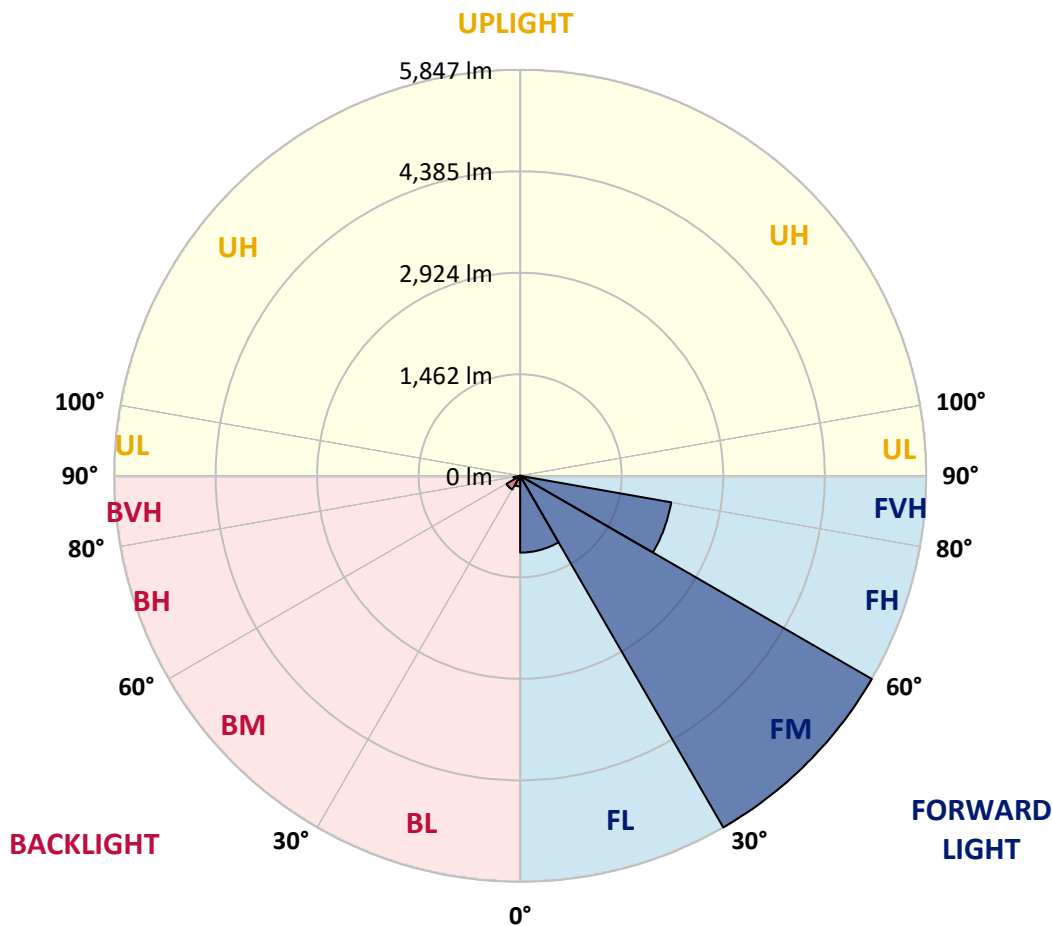


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1105.9	11.4			
FM (30°-60°)	5847.1	60.4			
FH (60°-80°)	2208.3	22.8			G2/5000
FVH (80°-90°)	31.2	0.3			G1/100
BL (0°-30°)	153.1	1.6	B1/500		
BM (30°-60°)	226.8	2.3	B1/1000		
BH (60°-80°)	97.7	1.0	B0/110		G0/110
BVH (80°-90°)	5.0	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2
2.5°	984.0	967.0	946.6	929.6	895.5	871.7	841.0	807.0	769.5	766.1	735.5
5°	1379.0	1327.9	1327.9	1283.7	1232.6	1140.7	1055.5	950.0	871.7	864.9	783.1
7.5°	1784.2	1743.4	1719.5	1651.4	1569.7	1467.6	1331.4	1154.3	1011.3	987.4	854.7
10°	2162.2	2131.5	2087.3	2032.8	1961.3	1794.4	1624.2	1392.6	1164.5	1147.5	939.8
12.5°	2455.0	2417.5	2397.1	2373.3	2281.3	2148.6	1927.2	1634.4	1362.0	1324.5	1024.9
15°	2676.3	2659.3	2638.9	2638.9	2591.2	2461.8	2233.7	1893.2	1552.7	1508.4	1133.9
17.5°	2853.4	2833.0	2829.6	2850.0	2836.4	2744.4	2529.9	2141.7	1750.2	1716.1	1246.2
20°	3050.9	3023.6	3023.6	3040.7	3037.3	2986.2	2798.9	2427.8	1981.7	1920.4	1375.6
22.5°	3330.1	3313.1	3299.4	3272.2	3251.8	3204.1	3040.7	2707.0	2203.0	2145.1	1508.4
25°	3704.6	3684.2	3622.9	3575.2	3486.7	3415.2	3275.6	2955.5	2427.8	2363.1	1637.8
27.5°	4069.0	4028.1	3970.2	3908.9	3810.2	3687.6	3514.0	3190.5	2662.7	2594.6	1770.6
30°	4453.7	4423.1	4351.6	4252.8	4130.3	3994.1	3786.4	3473.1	2931.7	2856.8	1913.6
32.5°	4760.2	4712.5	4647.8	4552.5	4426.5	4331.2	4106.4	3783.0	3241.6	3142.8	2063.4
35°	5005.3	4967.9	4882.8	4790.8	4695.5	4668.3	4423.1	4034.9	3490.1	3398.2	2223.5
37.5°	5162.0	5124.5	5053.0	4961.1	4923.6	4971.3	4811.3	4378.8	3823.8	3708.0	2407.3
40°	5284.6	5240.3	5182.4	5141.5	5127.9	5260.7	5243.7	4824.9	4263.1	4195.0	2659.3
42.5°	5373.1	5328.8	5291.4	5288.0	5376.5	5635.3	5826.0	5448.0	4876.0	4736.4	2982.8
45°	5260.7	5223.3	5243.7	5362.9	5577.4	5986.0	6530.8	6329.9	5614.8	5516.1	3500.3
47.5°	4947.5	4923.6	5015.6	5233.5	5631.9	6200.5	7211.8	7296.9	6670.4	6520.6	4171.1
50°	4457.1	4453.7	4600.2	4896.4	5461.6	6282.2	7555.7	8226.5	7753.2	7600.0	4715.9
52.5°	3793.2	3779.5	3994.1	4406.1	5059.8	6129.0	7620.4	8597.6	8379.7	8199.2	5059.8
55°	3040.7	3010.0	3265.4	3718.3	4467.4	5682.9	7446.7	8679.3	8679.3	8515.9	5315.2
57.5°	2138.3	2186.0	2397.1	2941.9	3735.3	5015.6	7017.7	8604.4	8982.4	8842.8	5659.1
60°	1348.4	1368.8	1600.3	2039.6	2833.0	4123.5	6251.6	8281.0	9224.1	9142.4	5934.9
62.5°	776.3	841.0	956.8	1290.5	1954.5	3098.5	5305.0	7698.7	9316.1	9282.0	6115.4
65°	473.3	480.1	534.6	728.7	1202.0	2114.5	4246.0	6888.3	9108.4	9139.0	6081.3
67.5°	354.1	354.1	371.1	459.7	684.4	1345.0	3132.6	5904.3	8444.4	8543.1	5761.3
70°	306.4	306.4	309.9	337.1	422.2	796.8	2070.2	4760.2	7239.0	7228.8	4760.2
72.5°	241.8	252.0	272.4	286.0	320.1	466.5	1212.2	3326.7	5029.2	5148.4	3064.5
75°	194.1	197.5	224.7	248.6	269.0	316.7	572.0	1848.9	2638.9	2638.9	1348.4
77.5°	149.8	156.6	173.7	197.5	224.7	224.7	238.3	715.0	1021.5	987.4	398.4
80°	95.3	98.7	126.0	156.6	187.3	160.0	129.4	238.3	279.2	269.0	109.0
82.5°	57.9	61.3	81.7	126.0	126.0	88.5	81.7	98.7	88.5	81.7	44.3
85°	17.0	20.4	57.9	81.7	71.5	34.0	40.9	44.3	40.9	37.5	23.8
87.5°	3.4	3.4	17.0	20.4	17.0	17.0	13.6	17.0	17.0	17.0	10.2
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°	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2	708.2
2.5°	718.5	704.8	677.6	657.2	640.1	623.1	609.5	606.1	599.3	599.3	595.9
5°	749.1	718.5	667.4	633.3	606.1	582.3	561.8	541.4	534.6	527.8	531.2
7.5°	796.8	749.1	677.6	626.5	578.8	524.4	480.1	442.6	415.4	408.6	398.4
10°	858.1	786.6	694.6	612.9	524.4	429.0	367.7	330.3	316.7	299.6	303.0
12.5°	919.3	830.8	708.2	575.4	432.4	337.1	286.0	262.2	252.0	248.6	252.0
15°	990.9	878.5	701.4	507.3	347.3	272.4	241.8	231.5	224.7	224.7	221.3
17.5°	1062.4	919.3	677.6	418.8	279.2	231.5	217.9	207.7	200.9	197.5	197.5
20°	1140.7	956.8	623.1	333.7	231.5	211.1	197.5	183.9	177.1	177.1	177.1
22.5°	1222.4	984.0	551.6	265.6	207.7	187.3	173.7	163.4	156.6	156.6	156.6
25°	1293.9	997.7	466.5	221.3	190.7	170.2	156.6	146.4	143.0	139.6	139.6
27.5°	1362.0	994.3	378.0	194.1	170.2	153.2	139.6	132.8	126.0	126.0	126.0
30°	1430.1	973.8	299.6	177.1	156.6	136.2	126.0	119.2	115.8	112.4	112.4
32.5°	1488.0	939.8	234.9	163.4	143.0	122.6	112.4	105.6	105.6	102.1	102.1
35°	1545.9	888.7	197.5	153.2	129.4	112.4	102.1	98.7	95.3	95.3	95.3
37.5°	1607.2	824.0	173.7	139.6	115.8	102.1	95.3	91.9	88.5	85.1	85.1
40°	1682.1	759.3	163.4	129.4	105.6	91.9	85.1	81.7	78.3	78.3	78.3
42.5°	1801.2	704.8	153.2	115.8	95.3	85.1	78.3	71.5	71.5	68.1	68.1
45°	2026.0	684.4	143.0	105.6	88.5	74.9	71.5	64.7	61.3	61.3	61.3
47.5°	2318.8	687.8	132.8	95.3	81.7	68.1	64.7	61.3	54.5	54.5	54.5
50°	2560.6	670.8	122.6	88.5	71.5	64.7	57.9	54.5	51.1	51.1	51.1
52.5°	2655.9	640.1	112.4	81.7	68.1	57.9	54.5	51.1	47.7	47.7	47.7
55°	2751.2	626.5	102.1	71.5	61.3	57.9	51.1	47.7	44.3	40.9	40.9
57.5°	2924.9	633.3	91.9	68.1	57.9	54.5	47.7	40.9	34.0	30.6	30.6
60°	3016.8	609.5	85.1	61.3	54.5	51.1	40.9	30.6	23.8	20.4	20.4
62.5°	2938.5	541.4	78.3	57.9	51.1	44.3	30.6	23.8	17.0	10.2	10.2
65°	2720.6	446.1	71.5	54.5	44.3	34.0	27.2	17.0	10.2	6.8	6.8
67.5°	2444.8	350.7	64.7	51.1	40.9	30.6	23.8	13.6	6.8	3.4	3.4
70°	1974.9	252.0	61.3	47.7	37.5	27.2	20.4	13.6	6.8	3.4	3.4
72.5°	1273.5	163.4	54.5	44.3	34.0	27.2	17.0	10.2	6.8	3.4	3.4
75°	589.1	109.0	51.1	40.9	34.0	23.8	17.0	13.6	6.8	3.4	3.4
77.5°	173.7	78.3	47.7	37.5	30.6	23.8	17.0	13.6	6.8	3.4	3.4
80°	71.5	54.5	37.5	34.0	30.6	23.8	17.0	13.6	6.8	3.4	3.4
82.5°	34.0	23.8	17.0	13.6	17.0	17.0	13.6	13.6	6.8	3.4	3.4
85°	17.0	10.2	6.8	6.8	6.8	3.4	3.4	6.8	6.8	3.4	3.4
87.5°	10.2	6.8	6.8	6.8	3.4	3.4	3.4	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)