

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: P572779

Luminaire Tested: **ARCH-S-PA2-110-827-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572779
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-PA2-110-827-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 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: 8504 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

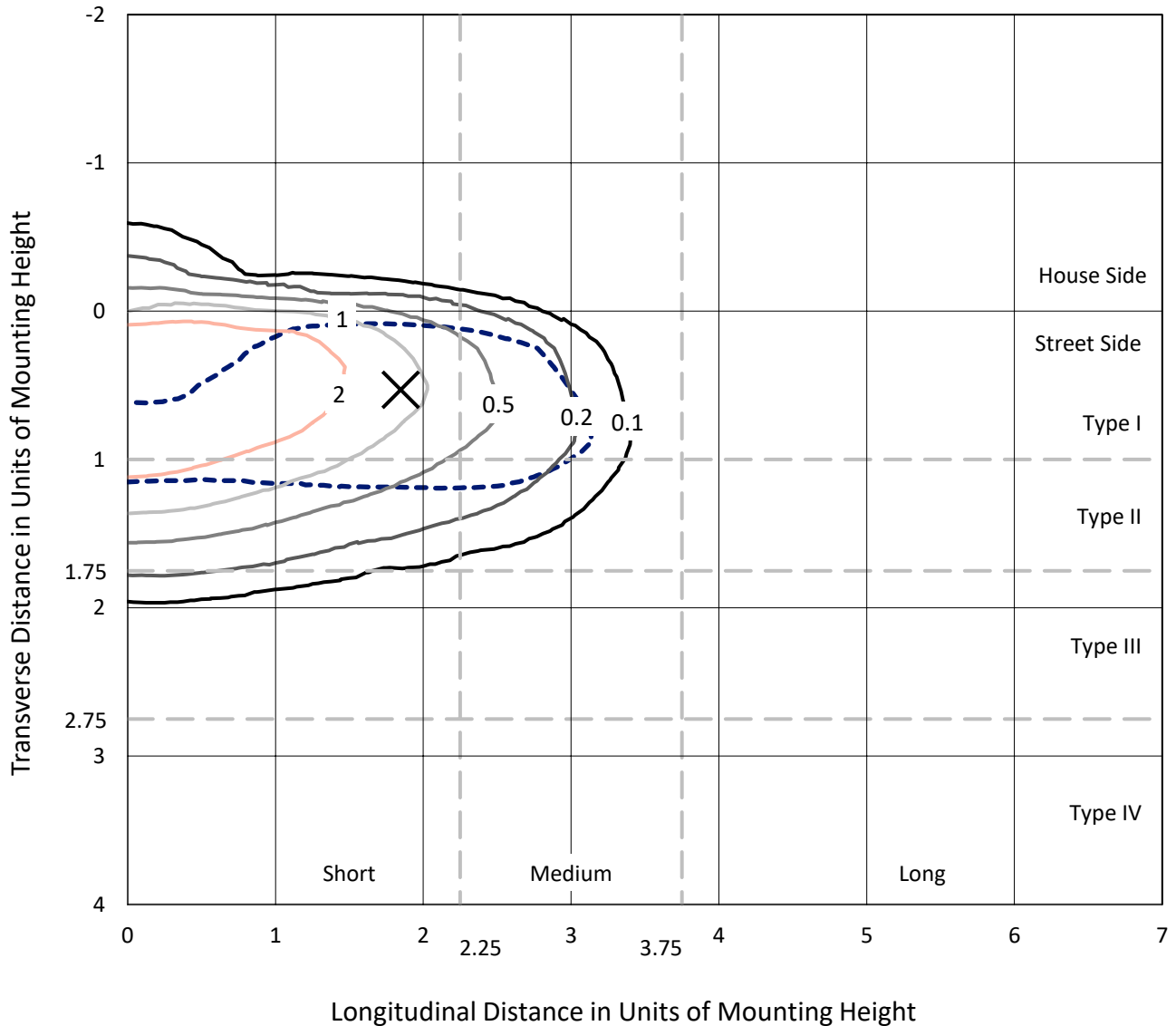
Input Watts (W): 114.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

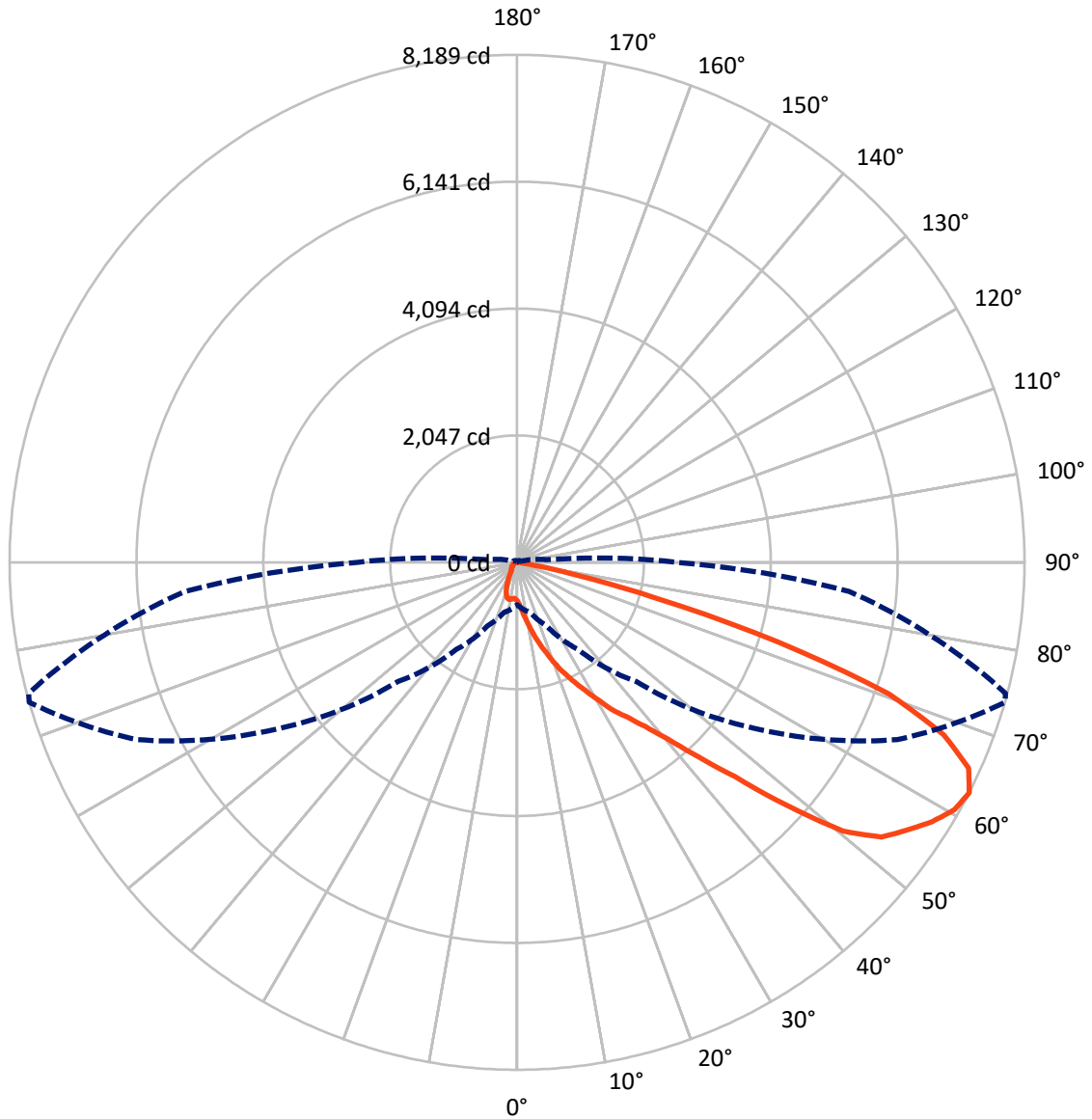
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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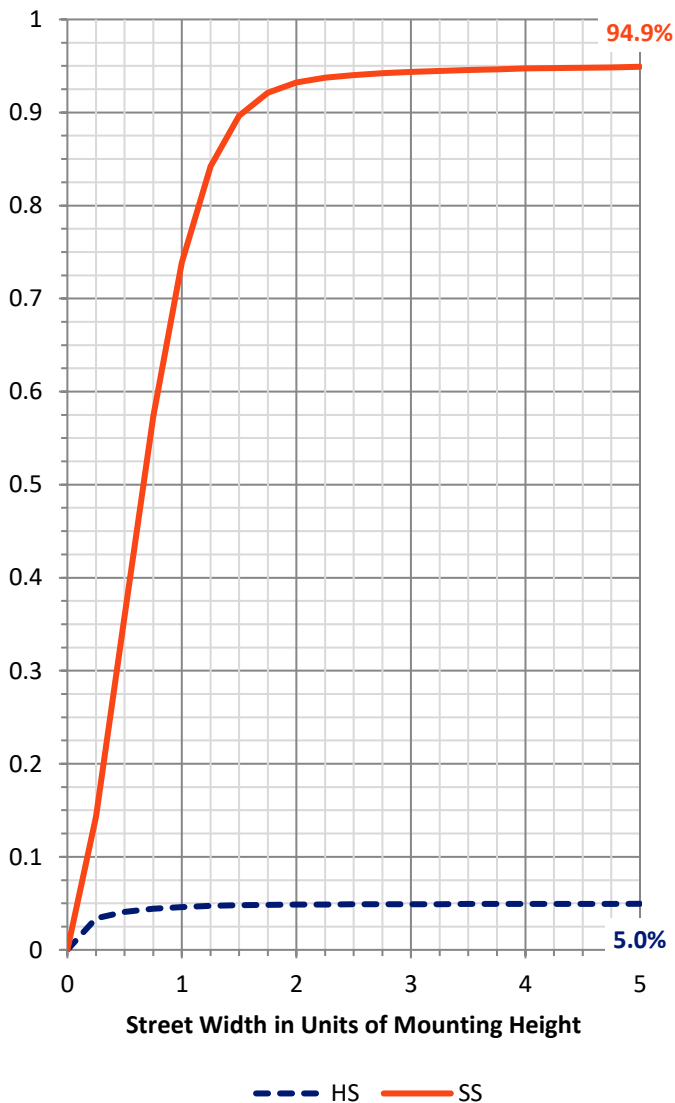
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	424.2	0.0	424.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	8079.9	0.0	8079.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	8504.0	0.0	8504.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.8	0.9
10°-20°	327.0	3.8
20°-30°	701.8	8.3
30°-40°	1230.8	14.5
40°-50°	1908.1	22.4
50°-60°	2199.8	25.9
60°-70°	1545.4	18.2
70°-80°	481.5	5.7
80°-90°	31.8	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°	8504.0	100.0
0°-180°	8504.0	100.0

Coefficient of Utilization

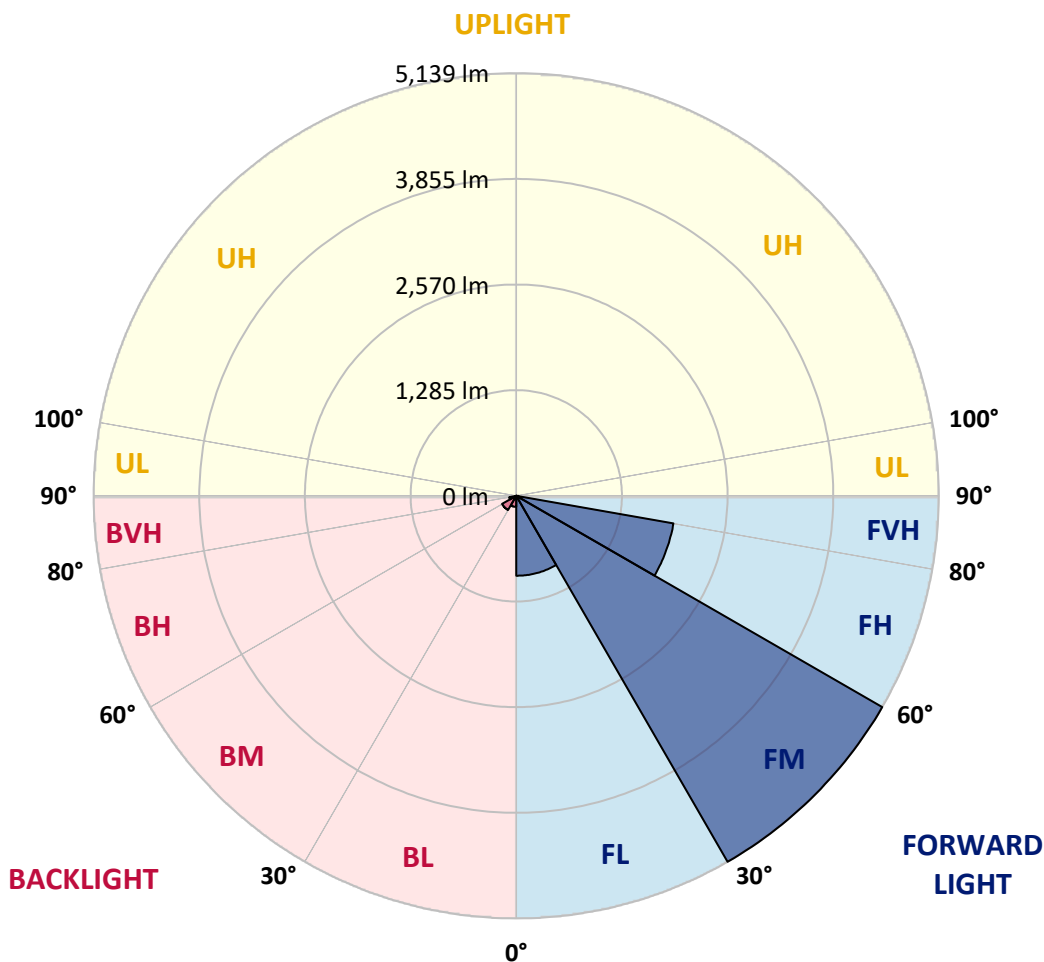


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	972.0	11.4			
FM (30°-60°)	5139.4	60.4			
FH (60°-80°)	1941.0	22.8			G2/5000
FVH (80°-90°)	27.5	0.3			G1/100
BL (0°-30°)	134.6	1.6	B1/500		
BM (30°-60°)	199.3	2.3	B0/220		
BH (60°-80°)	85.9	1.0	B0/110		G0/110
BVH (80°-90°)	4.4	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°	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5
2.5°	864.9	850.0	832.0	817.1	787.1	766.2	739.2	709.3	676.4	673.4	646.5
5°	1212.1	1167.2	1167.2	1128.3	1083.4	1002.6	927.8	835.0	766.2	760.2	688.4
7.5°	1568.3	1532.4	1511.4	1451.5	1379.7	1289.9	1170.2	1014.6	888.9	867.9	751.2
10°	1900.5	1873.5	1834.6	1786.7	1723.9	1577.2	1427.6	1224.1	1023.6	1008.6	826.0
12.5°	2157.9	2124.9	2107.0	2086.0	2005.2	1888.5	1694.0	1436.6	1197.2	1164.2	900.9
15°	2352.4	2337.4	2319.5	2319.5	2277.6	2163.9	1963.3	1664.0	1364.8	1325.8	996.6
17.5°	2508.0	2490.1	2487.1	2505.0	2493.1	2412.3	2223.7	1882.5	1538.3	1508.4	1095.4
20°	2681.6	2657.7	2657.7	2672.6	2669.6	2624.8	2460.1	2133.9	1741.9	1688.0	1209.1
22.5°	2927.0	2912.1	2900.1	2876.2	2858.2	2816.3	2672.6	2379.3	1936.4	1885.5	1325.8
25°	3256.3	3238.3	3184.4	3142.5	3064.7	3001.9	2879.1	2597.8	2133.9	2077.1	1439.6
27.5°	3576.5	3540.6	3489.7	3435.8	3349.0	3241.3	3088.7	2804.3	2340.4	2280.6	1556.3
30°	3914.7	3887.7	3824.9	3738.1	3630.4	3510.6	3328.1	3052.7	2576.9	2511.0	1682.0
32.5°	4184.0	4142.1	4085.3	4001.5	3890.7	3806.9	3609.4	3325.1	2849.2	2762.4	1813.7
35°	4399.5	4366.6	4291.8	4211.0	4127.2	4103.2	3887.7	3546.6	3067.7	2986.9	1954.4
37.5°	4537.2	4504.3	4441.4	4360.6	4327.7	4369.6	4228.9	3848.8	3361.0	3259.2	2116.0
40°	4644.9	4606.0	4555.2	4519.2	4507.3	4624.0	4609.0	4240.9	3747.1	3687.2	2337.4
42.5°	4722.8	4683.9	4650.9	4647.9	4725.8	4953.2	5120.8	4788.6	4285.8	4163.1	2621.8
45°	4624.0	4591.1	4609.0	4713.8	4902.3	5261.5	5740.3	5563.8	4935.3	4848.5	3076.7
47.5°	4348.7	4327.7	4408.5	4600.1	4950.2	5450.0	6338.9	6413.7	5863.1	5731.4	3666.3
50°	3917.7	3914.7	4043.4	4303.8	4800.6	5521.9	6641.2	7230.8	6814.8	6680.1	4145.1
52.5°	3334.1	3322.1	3510.6	3872.8	4447.4	5387.2	6698.1	7557.0	7365.5	7206.9	4447.4
55°	2672.6	2645.7	2870.2	3268.2	3926.7	4995.1	6545.4	7628.8	7628.8	7485.2	4671.9
57.5°	1879.5	1921.4	2107.0	2585.8	3283.2	4408.5	6168.3	7563.0	7895.2	7772.5	4974.2
60°	1185.2	1203.1	1406.7	1792.7	2490.1	3624.4	5494.9	7278.7	8107.7	8035.9	5216.6
62.5°	682.4	739.2	841.0	1134.3	1717.9	2723.5	4662.9	6766.9	8188.5	8158.6	5375.2
65°	416.0	422.0	469.9	640.5	1056.5	1858.6	3732.1	6054.6	8006.0	8032.9	5345.3
67.5°	311.3	311.3	326.2	404.0	601.6	1182.2	2753.4	5189.7	7422.3	7509.1	5064.0
70°	269.4	269.4	272.4	296.3	371.1	700.3	1819.7	4184.0	6362.9	6353.9	4184.0
72.5°	212.5	221.5	239.4	251.4	281.3	410.0	1065.5	2924.0	4420.5	4525.2	2693.6
75°	170.6	173.6	197.5	218.5	236.4	278.3	502.8	1625.1	2319.5	2319.5	1185.2
77.5°	131.7	137.7	152.6	173.6	197.5	197.5	209.5	628.5	897.9	867.9	350.2
80°	83.8	86.8	110.7	137.7	164.6	140.7	113.7	209.5	245.4	236.4	95.8
82.5°	50.9	53.9	71.8	110.7	110.7	77.8	71.8	86.8	77.8	71.8	38.9
85°	15.0	18.0	50.9	71.8	62.9	29.9	35.9	38.9	35.9	32.9	21.0
87.5°	3.0	3.0	15.0	18.0	15.0	15.0	12.0	15.0	15.0	15.0	9.0
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°	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5
2.5°	631.5	619.5	595.6	577.6	562.7	547.7	535.7	532.7	526.7	526.7	523.8
5°	658.4	631.5	586.6	556.7	532.7	511.8	493.8	475.9	469.9	463.9	466.9
7.5°	700.3	658.4	595.6	550.7	508.8	460.9	422.0	389.1	365.1	359.1	350.2
10°	754.2	691.4	610.5	538.7	460.9	377.1	323.2	290.3	278.3	263.4	266.4
12.5°	808.1	730.3	622.5	505.8	380.1	296.3	251.4	230.5	221.5	218.5	221.5
15°	870.9	772.2	616.5	445.9	305.3	239.4	212.5	203.5	197.5	197.5	194.5
17.5°	933.8	808.1	595.6	368.1	245.4	203.5	191.5	182.6	176.6	173.6	173.6
20°	1002.6	841.0	547.7	293.3	203.5	185.6	173.6	161.6	155.6	155.6	155.6
22.5°	1074.4	864.9	484.8	233.4	182.6	164.6	152.6	143.7	137.7	137.7	137.7
25°	1137.3	876.9	410.0	194.5	167.6	149.6	137.7	128.7	125.7	122.7	122.7
27.5°	1197.2	873.9	332.2	170.6	149.6	134.7	122.7	116.7	110.7	110.7	110.7
30°	1257.0	856.0	263.4	155.6	137.7	119.7	110.7	104.8	101.8	98.8	98.8
32.5°	1307.9	826.0	206.5	143.7	125.7	107.7	98.8	92.8	92.8	89.8	89.8
35°	1358.8	781.1	173.6	134.7	113.7	98.8	89.8	86.8	83.8	83.8	83.8
37.5°	1412.6	724.3	152.6	122.7	101.8	89.8	83.8	80.8	77.8	74.8	74.8
40°	1478.5	667.4	143.7	113.7	92.8	80.8	74.8	71.8	68.8	68.8	68.8
42.5°	1583.2	619.5	134.7	101.8	83.8	74.8	68.8	62.9	62.9	59.9	59.9
45°	1780.8	601.6	125.7	92.8	77.8	65.8	62.9	56.9	53.9	53.9	53.9
47.5°	2038.2	604.6	116.7	83.8	71.8	59.9	56.9	53.9	47.9	47.9	47.9
50°	2250.6	589.6	107.7	77.8	62.9	56.9	50.9	47.9	44.9	44.9	44.9
52.5°	2334.4	562.7	98.8	71.8	59.9	50.9	47.9	44.9	41.9	41.9	41.9
55°	2418.2	550.7	89.8	62.9	53.9	50.9	44.9	41.9	38.9	35.9	35.9
57.5°	2570.9	556.7	80.8	59.9	50.9	47.9	41.9	35.9	29.9	26.9	26.9
60°	2651.7	535.7	74.8	53.9	47.9	44.9	35.9	26.9	21.0	18.0	18.0
62.5°	2582.9	475.9	68.8	50.9	44.9	38.9	26.9	21.0	15.0	9.0	9.0
65°	2391.3	392.1	62.9	47.9	38.9	29.9	23.9	15.0	9.0	6.0	6.0
67.5°	2148.9	308.3	56.9	44.9	35.9	26.9	21.0	12.0	6.0	3.0	3.0
70°	1735.9	221.5	53.9	41.9	32.9	23.9	18.0	12.0	6.0	3.0	3.0
72.5°	1119.3	143.7	47.9	38.9	29.9	23.9	15.0	9.0	6.0	3.0	3.0
75°	517.8	95.8	44.9	35.9	29.9	21.0	15.0	12.0	6.0	3.0	3.0
77.5°	152.6	68.8	41.9	32.9	26.9	21.0	15.0	12.0	6.0	3.0	3.0
80°	62.9	47.9	32.9	29.9	26.9	21.0	15.0	12.0	6.0	3.0	3.0
82.5°	29.9	21.0	15.0	12.0	15.0	15.0	12.0	12.0	6.0	3.0	3.0
85°	15.0	9.0	6.0	6.0	6.0	3.0	3.0	6.0	6.0	3.0	3.0
87.5°	9.0	6.0	6.0	6.0	3.0	3.0	3.0	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)