

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: P573346

Luminaire Tested: **ARCH-S-PA2-60-827-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573346
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-PA2-60-827-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 625mA 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: 5351 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

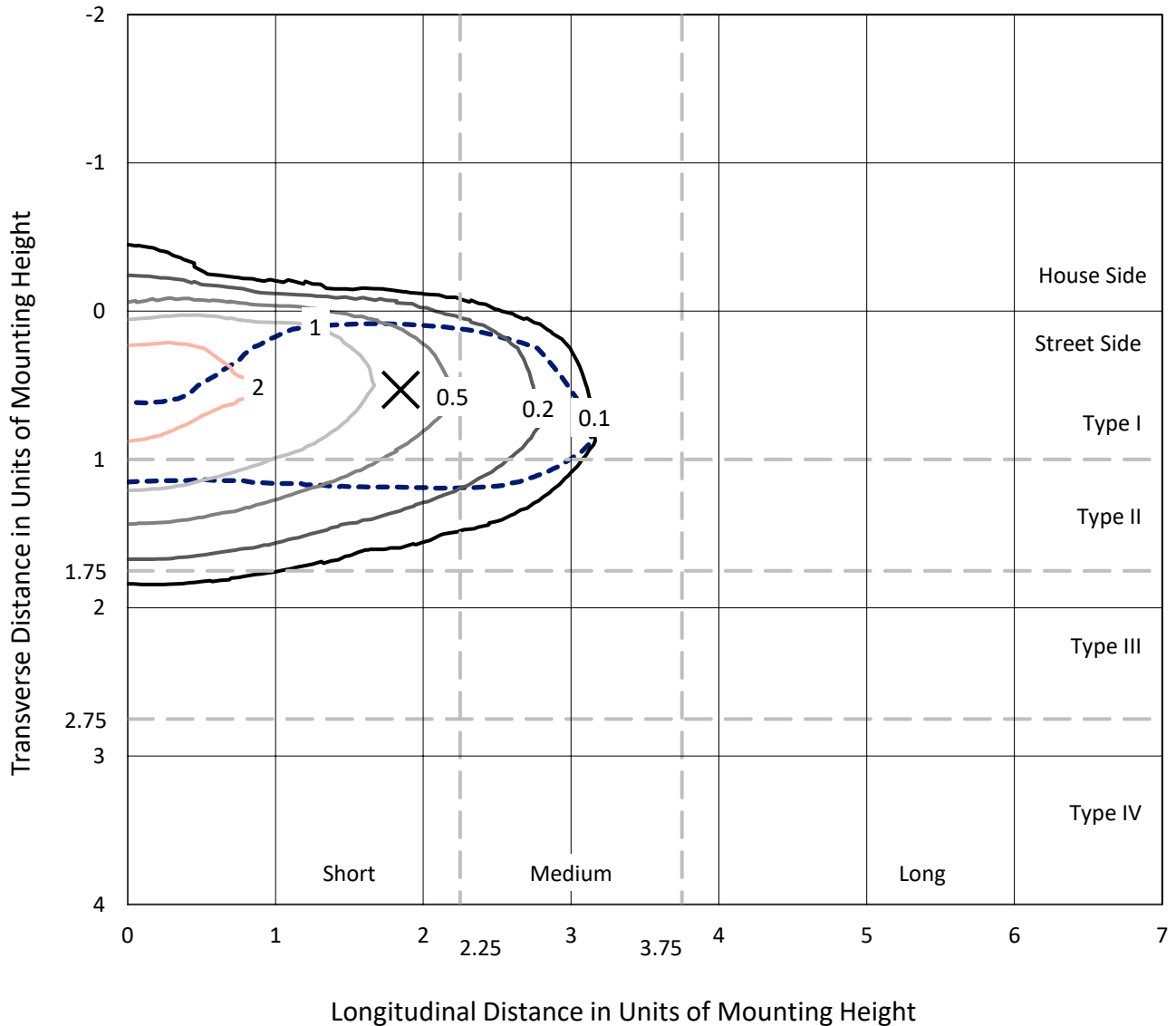
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

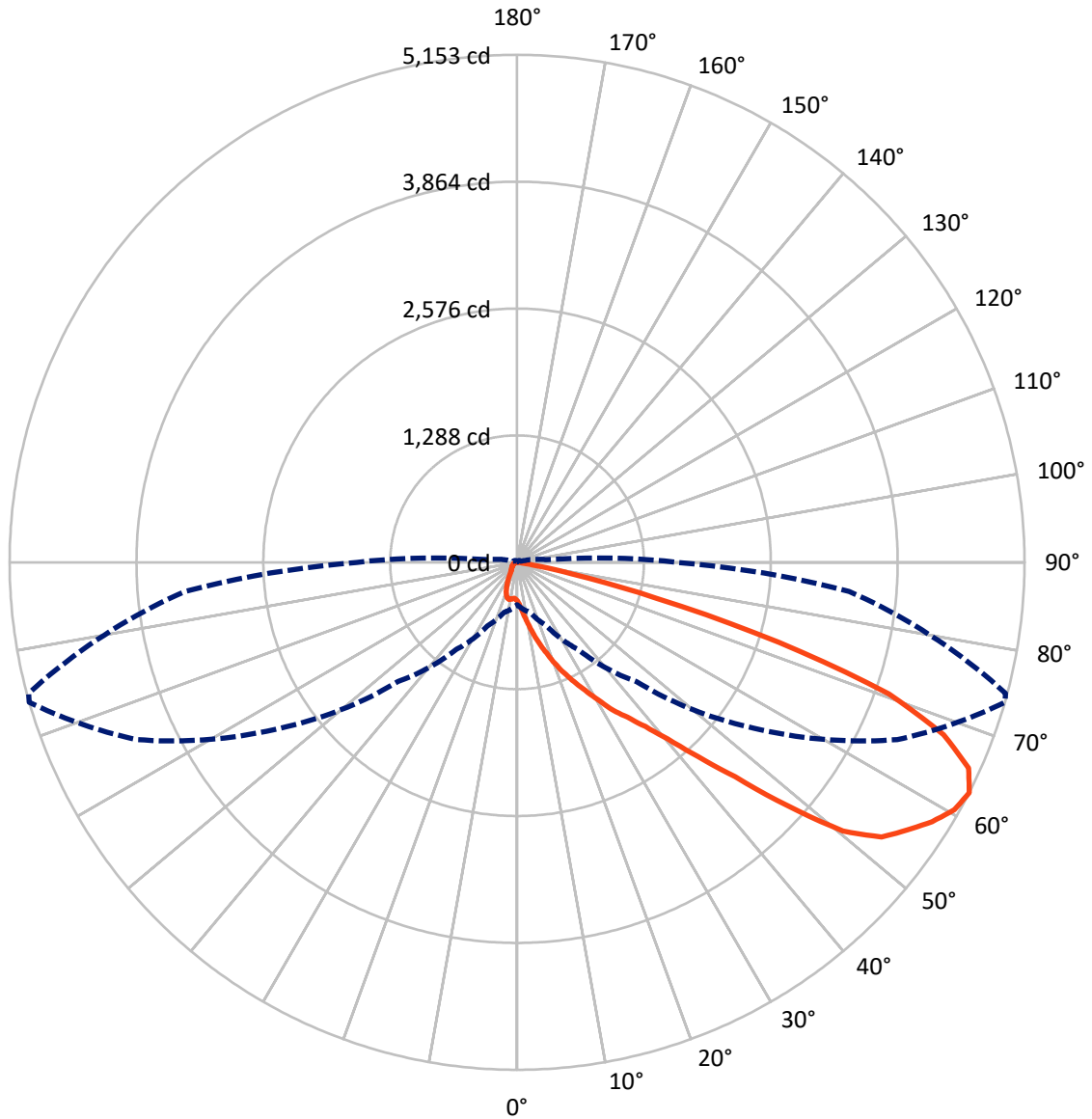
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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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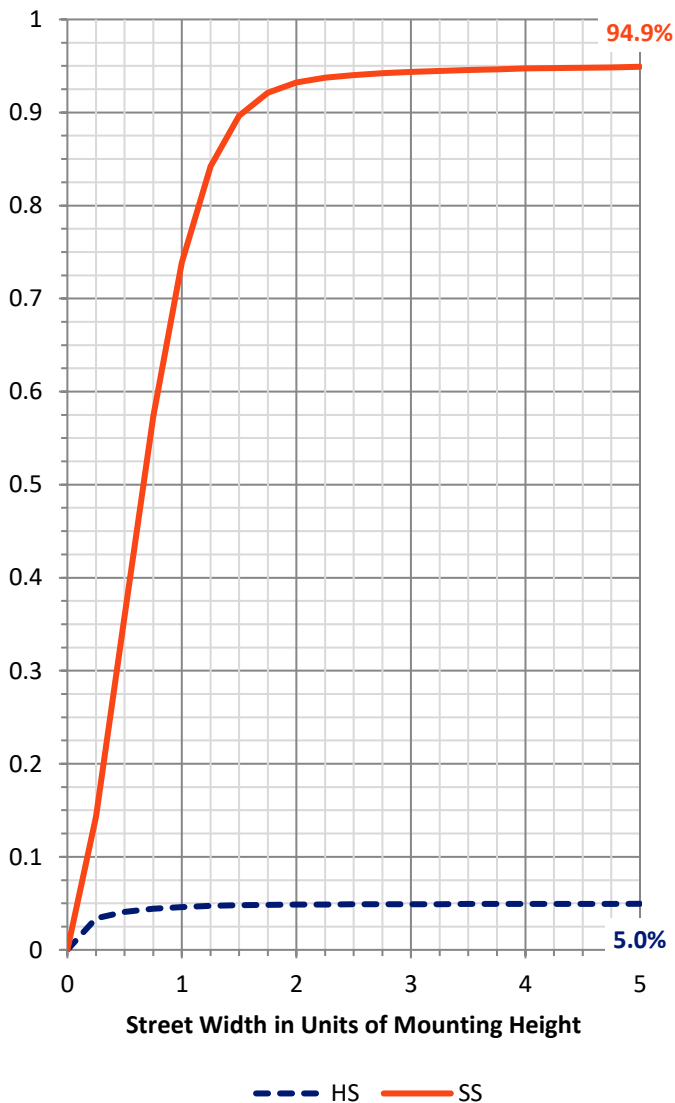
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	266.9	0.0	266.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	5084.1	0.0	5084.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	5351.0	0.0	5351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.0	0.9
10°-20°	205.8	3.8
20°-30°	441.6	8.3
30°-40°	774.5	14.5
40°-50°	1200.6	22.4
50°-60°	1384.2	25.9
60°-70°	972.4	18.2
70°-80°	302.9	5.7
80°-90°	20.0	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°	5351.0	100.0
0°-180°	5351.0	100.0

Coefficient of Utilization

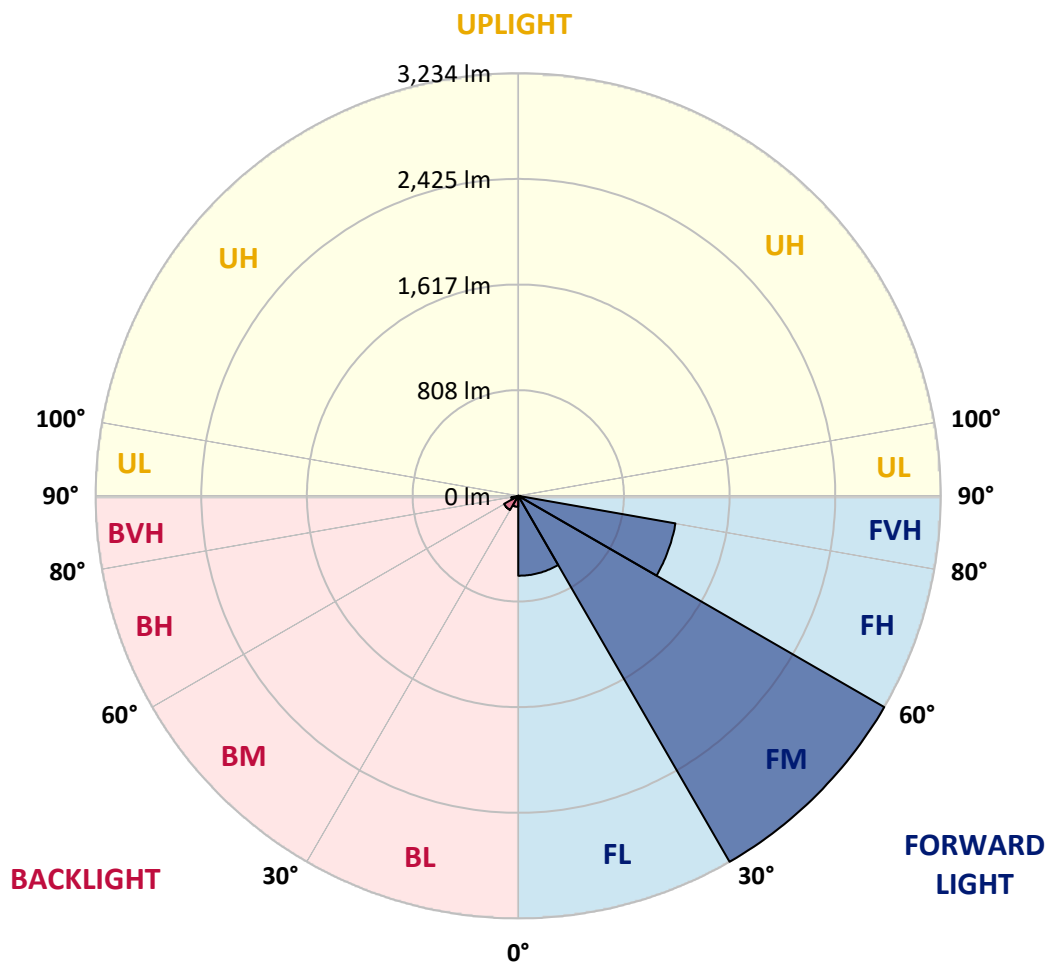


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.6	11.4			
FM (30°-60°)	3233.9	60.4			
FH (60°-80°)	1221.3	22.8			G1/1800
FVH (80°-90°)	17.3	0.3			G1/100
BL (0°-30°)	84.7	1.6	B0/110		
BM (30°-60°)	125.4	2.3	B0/220		
BH (60°-80°)	54.0	1.0	B0/110		G0/110
BVH (80°-90°)	2.8	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	391.7	391.7	391.7	391.7	391.7	391.7	391.7	391.7	391.7	391.7	391.7
2.5°	544.3	534.8	523.5	514.1	495.3	482.1	465.2	446.3	425.6	423.7	406.8
5°	762.7	734.5	734.5	710.0	681.7	630.9	583.8	525.4	482.1	478.3	433.1
7.5°	986.8	964.2	951.0	913.4	868.2	811.7	736.3	638.4	559.3	546.1	472.7
10°	1195.8	1178.9	1154.4	1124.3	1084.7	992.5	898.3	770.2	644.1	634.6	519.8
12.5°	1357.8	1337.1	1325.8	1312.6	1261.8	1188.3	1065.9	903.9	753.3	732.6	566.8
15°	1480.2	1470.8	1459.5	1459.5	1433.1	1361.6	1235.4	1047.1	858.7	834.3	627.1
17.5°	1578.1	1566.8	1565.0	1576.3	1568.7	1517.9	1399.2	1184.5	968.0	949.1	689.3
20°	1687.4	1672.3	1672.3	1681.7	1679.8	1651.6	1548.0	1342.7	1096.0	1062.1	760.8
22.5°	1841.8	1832.4	1824.8	1809.8	1798.5	1772.1	1681.7	1497.2	1218.4	1186.4	834.3
25°	2048.9	2037.6	2003.7	1977.4	1928.4	1888.9	1811.7	1634.6	1342.7	1307.0	905.8
27.5°	2250.4	2227.8	2195.8	2161.9	2107.3	2039.5	1943.5	1764.6	1472.7	1435.0	979.3
30°	2463.3	2446.3	2406.8	2352.1	2284.3	2209.0	2094.1	1920.9	1621.5	1580.0	1058.4
32.5°	2632.7	2606.4	2570.6	2517.9	2448.2	2395.5	2271.2	2092.3	1792.8	1738.2	1141.2
35°	2768.3	2747.6	2700.5	2649.7	2597.0	2581.9	2446.3	2231.6	1930.3	1879.5	1229.7
37.5°	2855.0	2834.2	2794.7	2743.9	2723.1	2749.5	2661.0	2421.8	2114.9	2050.8	1331.4
40°	2922.8	2898.3	2866.3	2843.7	2836.1	2909.6	2900.2	2668.5	2357.8	2320.1	1470.8
42.5°	2971.7	2947.2	2926.5	2924.6	2973.6	3116.7	3222.2	3013.2	2696.8	2619.6	1649.7
45°	2909.6	2888.9	2900.2	2966.1	3084.7	3310.7	3612.0	3500.9	3105.4	3050.8	1935.9
47.5°	2736.3	2723.1	2774.0	2894.5	3114.8	3429.3	3988.7	4035.7	3689.2	3606.4	2306.9
50°	2465.1	2463.3	2544.2	2708.1	3020.7	3474.5	4178.9	4549.9	4288.1	4203.3	2608.3
52.5°	2097.9	2090.4	2209.0	2436.9	2798.5	3389.8	4214.6	4755.1	4634.6	4534.8	2798.5
55°	1681.7	1664.8	1806.0	2056.5	2470.8	3143.1	4118.6	4800.3	4800.3	4709.9	2939.7
57.5°	1182.7	1209.0	1325.8	1627.1	2065.9	2774.0	3881.3	4758.9	4967.9	4890.7	3129.9
60°	745.8	757.1	885.1	1128.0	1566.8	2280.6	3457.6	4580.0	5101.6	5056.4	3282.5
62.5°	429.4	465.2	529.2	713.7	1081.0	1713.7	2934.1	4258.0	5152.5	5133.7	3382.3
65°	261.8	265.5	295.7	403.0	664.8	1169.5	2348.4	3809.8	5037.6	5054.6	3363.4
67.5°	195.9	195.9	205.3	254.2	378.5	743.9	1732.6	3265.5	4670.4	4725.0	3186.4
70°	169.5	169.5	171.4	186.4	233.5	440.7	1145.0	2632.7	4003.7	3998.1	2632.7
72.5°	133.7	139.4	150.7	158.2	177.0	258.0	670.4	1839.9	2781.5	2847.4	1694.9
75°	107.3	109.2	124.3	137.5	148.8	175.1	316.4	1022.6	1459.5	1459.5	745.8
77.5°	82.9	86.6	96.0	109.2	124.3	124.3	131.8	395.5	565.0	546.1	220.3
80°	52.7	54.6	69.7	86.6	103.6	88.5	71.6	131.8	154.4	148.8	60.3
82.5°	32.0	33.9	45.2	69.7	69.7	49.0	45.2	54.6	49.0	45.2	24.5
85°	9.4	11.3	32.0	45.2	39.5	18.8	22.6	24.5	22.6	20.7	13.2
87.5°	1.9	1.9	9.4	11.3	9.4	9.4	7.5	9.4	9.4	9.4	5.6
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°	391.7	391.7	391.7	391.7	391.7	391.7	391.7	391.7	391.7	391.7	391.7
2.5°	397.4	389.8	374.8	363.5	354.0	344.6	337.1	335.2	331.4	331.4	329.6
5°	414.3	397.4	369.1	350.3	335.2	322.0	310.7	299.4	295.7	291.9	293.8
7.5°	440.7	414.3	374.8	346.5	320.1	290.0	265.5	244.8	229.8	226.0	220.3
10°	474.6	435.0	384.2	339.0	290.0	237.3	203.4	182.7	175.1	165.7	167.6
12.5°	508.5	459.5	391.7	318.3	239.2	186.4	158.2	145.0	139.4	137.5	139.4
15°	548.0	485.9	387.9	280.6	192.1	150.7	133.7	128.1	124.3	124.3	122.4
17.5°	587.6	508.5	374.8	231.6	154.4	128.1	120.5	114.9	111.1	109.2	109.2
20°	630.9	529.2	344.6	184.6	128.1	116.8	109.2	101.7	97.9	97.9	97.9
22.5°	676.1	544.3	305.1	146.9	114.9	103.6	96.0	90.4	86.6	86.6	86.6
25°	715.6	551.8	258.0	122.4	105.5	94.2	86.6	81.0	79.1	77.2	77.2
27.5°	753.3	549.9	209.0	107.3	94.2	84.7	77.2	73.4	69.7	69.7	69.7
30°	791.0	538.6	165.7	97.9	86.6	75.3	69.7	65.9	64.0	62.1	62.1
32.5°	823.0	519.8	129.9	90.4	79.1	67.8	62.1	58.4	58.4	56.5	56.5
35°	855.0	491.5	109.2	84.7	71.6	62.1	56.5	54.6	52.7	52.7	52.7
37.5°	888.9	455.7	96.0	77.2	64.0	56.5	52.7	50.8	49.0	47.1	47.1
40°	930.3	420.0	90.4	71.6	58.4	50.8	47.1	45.2	43.3	43.3	43.3
42.5°	996.2	389.8	84.7	64.0	52.7	47.1	43.3	39.5	39.5	37.7	37.7
45°	1120.5	378.5	79.1	58.4	49.0	41.4	39.5	35.8	33.9	33.9	33.9
47.5°	1282.5	380.4	73.4	52.7	45.2	37.7	35.8	33.9	30.1	30.1	30.1
50°	1416.2	371.0	67.8	49.0	39.5	35.8	32.0	30.1	28.2	28.2	28.2
52.5°	1468.9	354.0	62.1	45.2	37.7	32.0	30.1	28.2	26.4	26.4	26.4
55°	1521.6	346.5	56.5	39.5	33.9	32.0	28.2	26.4	24.5	22.6	22.6
57.5°	1617.7	350.3	50.8	37.7	32.0	30.1	26.4	22.6	18.8	16.9	16.9
60°	1668.5	337.1	47.1	33.9	30.1	28.2	22.6	16.9	13.2	11.3	11.3
62.5°	1625.2	299.4	43.3	32.0	28.2	24.5	16.9	13.2	9.4	5.6	5.6
65°	1504.7	246.7	39.5	30.1	24.5	18.8	15.1	9.4	5.6	3.8	3.8
67.5°	1352.2	194.0	35.8	28.2	22.6	16.9	13.2	7.5	3.8	1.9	1.9
70°	1092.3	139.4	33.9	26.4	20.7	15.1	11.3	7.5	3.8	1.9	1.9
72.5°	704.3	90.4	30.1	24.5	18.8	15.1	9.4	5.6	3.8	1.9	1.9
75°	325.8	60.3	28.2	22.6	18.8	13.2	9.4	7.5	3.8	1.9	1.9
77.5°	96.0	43.3	26.4	20.7	16.9	13.2	9.4	7.5	3.8	1.9	1.9
80°	39.5	30.1	20.7	18.8	16.9	13.2	9.4	7.5	3.8	1.9	1.9
82.5°	18.8	13.2	9.4	7.5	9.4	9.4	7.5	7.5	3.8	1.9	1.9
85°	9.4	5.6	3.8	3.8	3.8	1.9	1.9	3.8	3.8	1.9	1.9
87.5°	5.6	3.8	3.8	3.8	1.9	1.9	1.9	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)