

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: P573159

Luminaire Tested: **ARCH-S-PA2-40-740-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573159
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-PA2-40-740-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 420mA 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: 4603 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

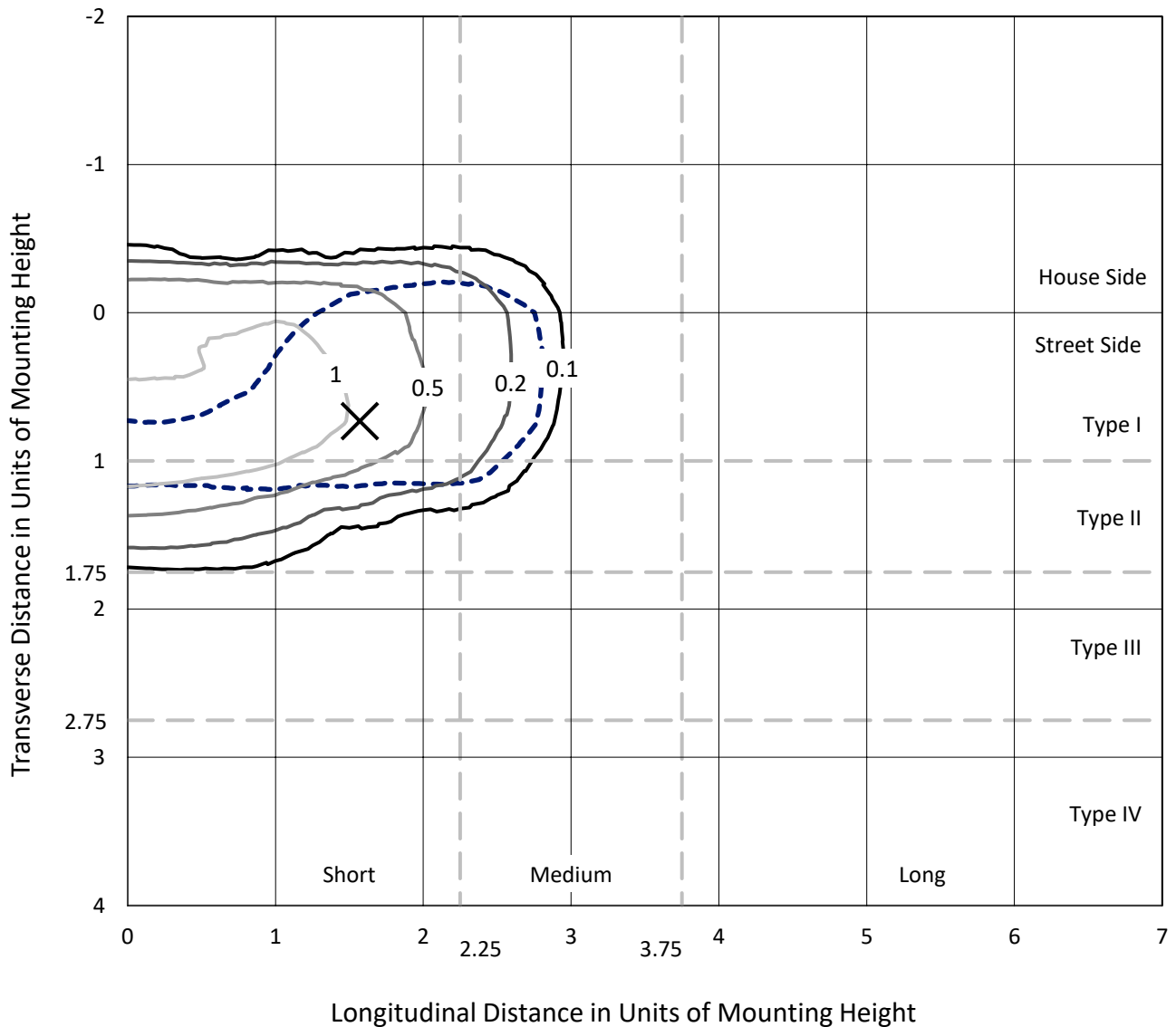
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573159
 CATALOG NUMBER: ARCH-S-PA2-40-740-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

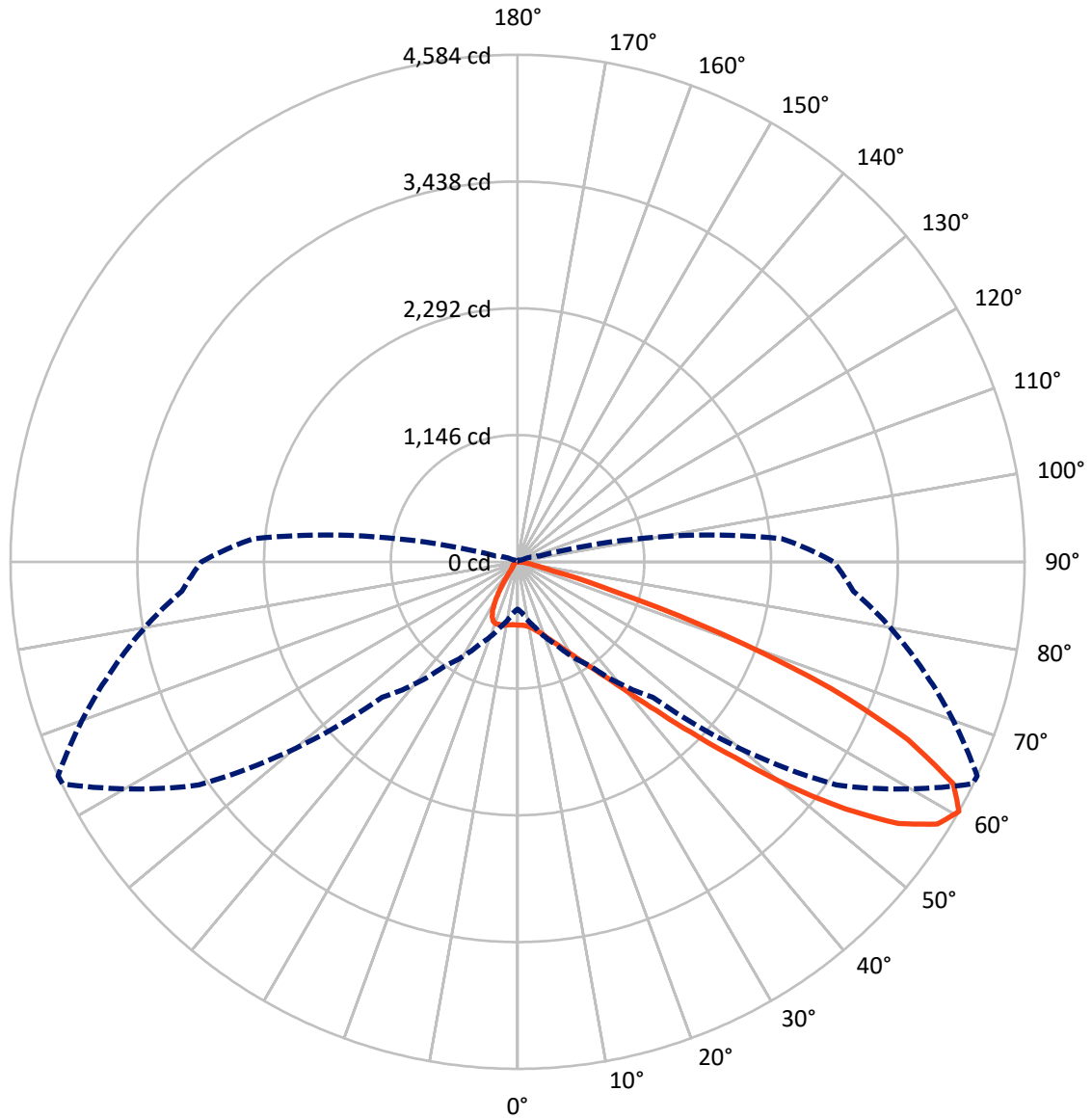
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Short - N/A

REPORT NUMBER: P573159
CATALOG NUMBER: ARCH-S-PA2-40-740-U-T2U-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: ARCH-S-PA2-40-740-U-T2U-HSS

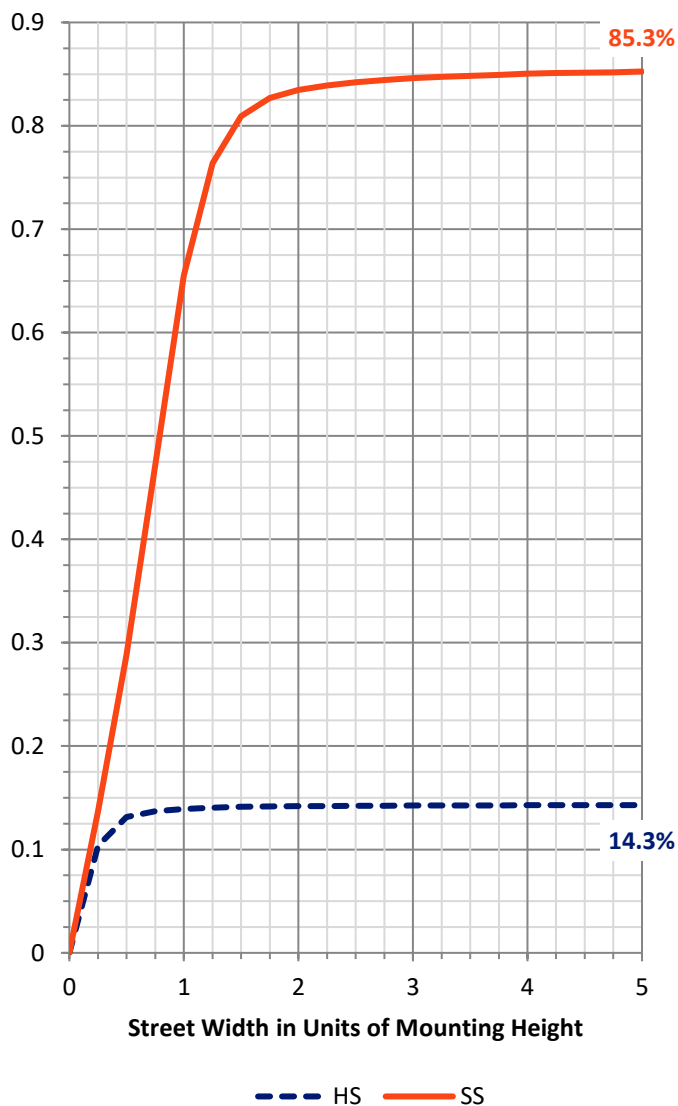
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	666.4	0.0	666.4
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	3936.6	0.0	3936.6
	% Fixture	85.5	0.0	85.5
Total	Lumens	4603.0	0.0	4603.0
	% 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°	261.2	5.7
30°-40°	538.9	11.7
40°-50°	1083.8	23.5
50°-60°	1326.3	28.8
60°-70°	938.3	20.4
70°-80°	226.1	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°	4603.0	100.0
0°-180°	4603.0	100.0

Coefficient of Utilization

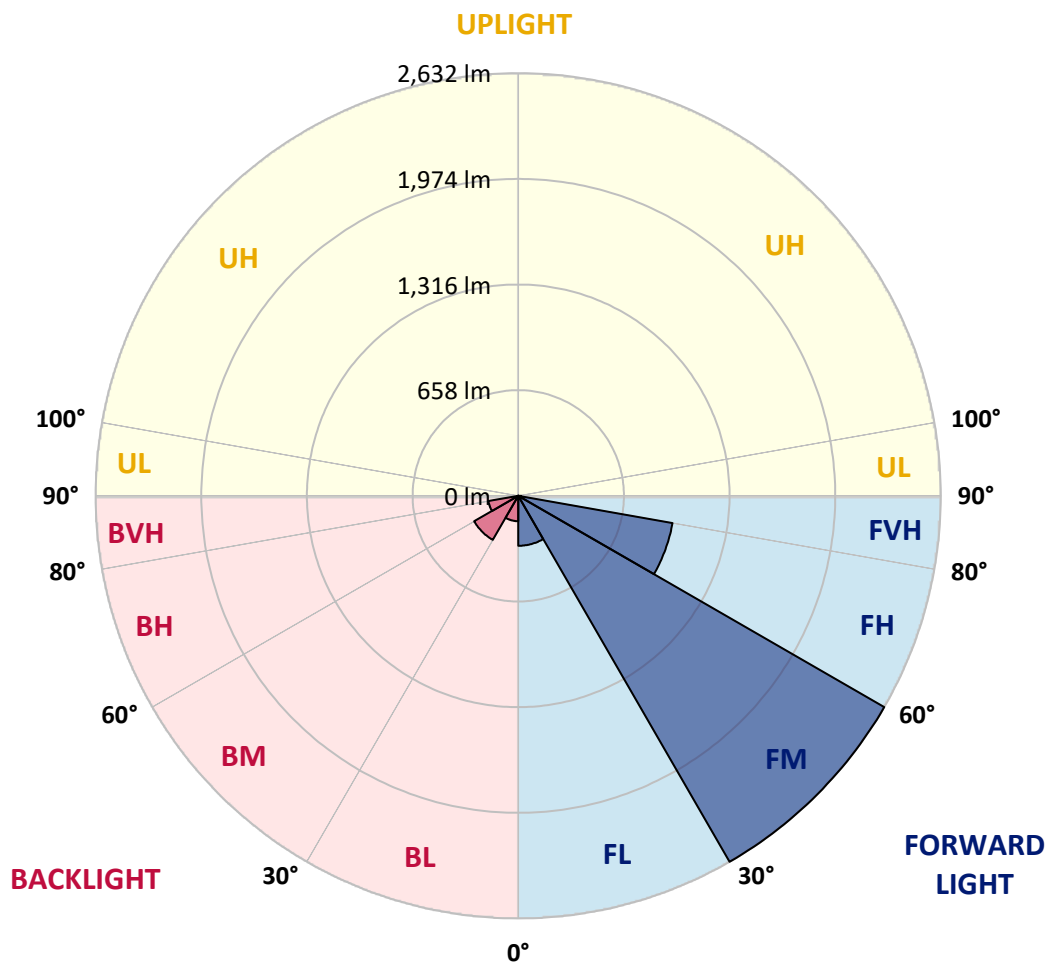


REPORT NUMBER: P573159
 CATALOG NUMBER: ARCH-S-PA2-40-740-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	311.1	6.8			
FM (30°-60°)	2632.2	57.2			
FH (60°-80°)	975.5	21.2			G1/1800
FVH (80°-90°)	17.8	0.4			G1/100
BL (0°-30°)	158.0	3.4	B1/500		
BM (30°-60°)	316.9	6.9	B1/1000		
BH (60°-80°)	188.9	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





REPORT NUMBER: P573159

CATALOG NUMBER: ARCH-S-PA2-40-740-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4
2.5°	575.2	573.4	573.4	573.4	575.2	575.2	577.0	573.4	573.4	573.4	573.4
5°	571.6	569.8	569.8	571.6	573.4	573.4	577.0	577.0	577.0	578.9	578.9
7.5°	578.9	575.2	575.2	577.0	578.9	578.9	582.5	584.3	584.3	587.9	589.8
10°	587.9	586.1	586.1	589.8	593.4	593.4	598.8	598.8	598.8	602.5	604.3
12.5°	600.6	598.8	598.8	604.3	609.7	613.3	617.0	618.8	620.6	620.6	620.6
15°	618.8	617.0	617.0	622.4	629.7	638.7	644.2	644.2	647.8	646.0	638.7
17.5°	644.2	642.4	644.2	647.8	656.9	666.0	676.9	678.7	676.9	673.2	662.3
20°	685.9	680.5	684.1	693.2	693.2	698.6	713.1	718.6	720.4	709.5	689.6
22.5°	729.5	729.5	733.1	744.0	736.7	744.0	756.7	765.8	769.4	760.3	727.7
25°	811.1	814.8	809.3	805.7	787.5	791.2	807.5	825.7	825.7	818.4	771.2
27.5°	990.8	987.2	949.0	896.4	849.2	852.9	869.2	892.8	894.6	878.3	814.8
30°	1248.5	1252.1	1177.7	1057.9	954.5	927.3	945.4	972.6	976.3	949.0	871.0
32.5°	1651.3	1620.5	1482.5	1322.9	1128.7	1030.7	1038.0	1067.0	1077.9	1054.3	959.9
35°	2172.1	2099.5	1892.6	1694.9	1413.6	1215.8	1159.5	1190.4	1195.8	1183.1	1070.6
37.5°	2482.4	2424.3	2290.0	2110.4	1780.1	1462.6	1319.2	1350.1	1344.6	1319.2	1181.3
40°	2674.7	2642.1	2569.5	2486.0	2275.5	1850.9	1582.3	1556.9	1558.8	1522.5	1361.0
42.5°	2783.6	2754.6	2727.4	2749.1	2687.4	2555.0	1963.4	1847.3	1836.4	1767.4	1569.6
45°	2789.1	2745.5	2778.2	2905.2	3003.2	3179.2	2460.6	2192.1	2197.5	2083.2	1829.1
47.5°	2580.4	2545.9	2640.3	2888.9	3213.7	3587.5	3039.5	2663.9	2638.5	2413.4	2092.3
50°	2168.5	2166.7	2291.9	2643.9	3213.7	3798.0	3660.1	3217.3	3190.1	2758.2	2331.8
52.5°	1716.6	1751.1	1836.4	2170.3	2917.9	3778.0	4117.4	3788.9	3712.7	3064.9	2531.4
55°	1335.6	1322.9	1426.3	1656.7	2313.6	3433.3	4266.2	4238.9	4175.4	3337.1	2707.4
57.5°	820.2	867.4	1007.1	1212.2	1684.0	2700.1	4052.0	4513.0	4474.8	3591.1	2890.7
60°	426.4	462.7	613.3	827.5	1150.5	1731.1	3516.7	4576.5	4583.7	3796.2	3046.7
62.5°	268.6	266.7	335.7	580.7	740.4	972.6	2731.0	4351.5	4420.4	3954.0	3195.5
65°	201.4	203.2	230.5	384.7	502.6	508.1	1620.5	3763.5	3877.8	3995.8	3246.3
67.5°	186.9	188.7	201.4	252.2	377.4	339.3	713.1	2901.6	3061.3	3611.1	3050.4
70°	166.9	168.8	188.7	208.7	284.9	248.6	321.2	1747.5	1968.9	2620.3	2440.7
72.5°	130.7	134.3	157.9	197.8	212.3	188.7	223.2	773.0	901.9	1440.8	1397.3
75°	96.2	98.0	119.8	152.4	186.9	134.3	172.4	306.7	335.7	540.8	460.9
77.5°	67.1	67.1	83.5	114.3	156.1	94.4	123.4	165.1	168.8	201.4	132.5
80°	41.7	43.6	52.6	78.0	96.2	90.7	76.2	110.7	110.7	105.2	54.4
82.5°	23.6	25.4	36.3	52.6	65.3	61.7	49.0	63.5	65.3	67.1	30.8
85°	10.9	12.7	21.8	32.7	38.1	29.0	29.0	32.7	32.7	43.6	18.1
87.5°	1.8	1.8	10.9	14.5	12.7	14.5	14.5	18.1	18.1	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



REPORT NUMBER: P573159
 CATALOG NUMBER: ARCH-S-PA2-40-740-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4	573.4
2.5°	571.6	571.6	571.6	569.8	569.8	568.0	564.3	564.3	564.3	564.3	566.2
5°	578.9	577.0	575.2	569.8	566.2	558.9	551.6	549.8	544.4	544.4	546.2
7.5°	587.9	587.9	582.5	573.4	564.3	551.6	538.9	529.9	520.8	519.0	517.2
10°	604.3	600.6	595.2	578.9	564.3	544.4	524.4	500.8	482.7	473.6	470.0
12.5°	617.0	615.2	604.3	586.1	562.5	531.7	486.3	431.9	388.3	364.7	364.7
15°	635.1	631.5	615.2	589.8	557.1	484.5	392.0	308.5	261.3	235.9	232.3
17.5°	653.3	646.0	626.0	591.6	533.5	399.2	274.0	197.8	165.1	152.4	148.8
20°	675.0	662.3	633.3	593.4	475.4	290.3	177.8	132.5	119.8	114.3	116.1
22.5°	704.1	682.3	640.6	582.5	388.3	188.7	125.2	107.1	99.8	94.4	94.4
25°	740.4	709.5	653.3	551.6	281.3	127.0	99.8	88.9	81.7	78.0	76.2
27.5°	773.0	734.9	666.0	497.2	179.6	99.8	83.5	74.4	67.1	65.3	63.5
30°	816.6	764.0	678.7	410.1	118.0	81.7	70.8	61.7	56.3	54.4	54.4
32.5°	891.0	820.2	702.3	312.1	88.9	70.8	59.9	52.6	49.0	47.2	47.2
35°	978.1	889.2	722.2	217.8	76.2	59.9	50.8	45.4	43.6	41.7	41.7
37.5°	1068.8	970.8	725.8	137.9	67.1	52.6	45.4	41.7	38.1	38.1	38.1
40°	1232.1	1114.2	709.5	92.5	58.1	47.2	39.9	38.1	34.5	34.5	34.5
42.5°	1422.7	1288.4	667.8	74.4	52.6	41.7	38.1	34.5	30.8	30.8	29.0
45°	1669.4	1486.2	597.0	65.3	47.2	38.1	34.5	30.8	29.0	27.2	27.2
47.5°	1901.7	1711.2	529.9	58.1	43.6	36.3	30.8	27.2	25.4	25.4	25.4
50°	2123.1	1883.6	451.8	54.4	39.9	34.5	29.0	25.4	23.6	21.8	21.8
52.5°	2282.8	2019.7	379.3	49.0	36.3	30.8	27.2	23.6	20.0	18.1	18.1
55°	2460.6	2157.6	313.9	43.6	34.5	29.0	23.6	20.0	16.3	14.5	14.5
57.5°	2660.2	2291.9	254.0	39.9	32.7	25.4	20.0	16.3	12.7	10.9	10.9
60°	2858.0	2398.9	203.2	36.3	29.0	23.6	18.1	12.7	9.1	7.3	7.3
62.5°	3055.8	2471.5	156.1	32.7	27.2	20.0	14.5	9.1	5.4	3.6	3.6
65°	3137.5	2451.5	116.1	29.0	23.6	16.3	12.7	9.1	5.4	3.6	3.6
67.5°	2910.6	2204.8	81.7	29.0	21.8	16.3	10.9	7.3	3.6	1.8	1.8
70°	2271.9	1702.1	59.9	29.0	21.8	16.3	10.9	7.3	3.6	1.8	1.8
72.5°	1288.4	947.2	45.4	25.4	20.0	14.5	10.9	7.3	3.6	1.8	1.8
75°	459.1	304.9	34.5	23.6	18.1	12.7	10.9	7.3	3.6	1.8	1.8
77.5°	110.7	78.0	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)