

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: P572806

Luminaire Tested: **ARCH-S-PA2-120-727-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572806
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-PA2-120-727-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 10058 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

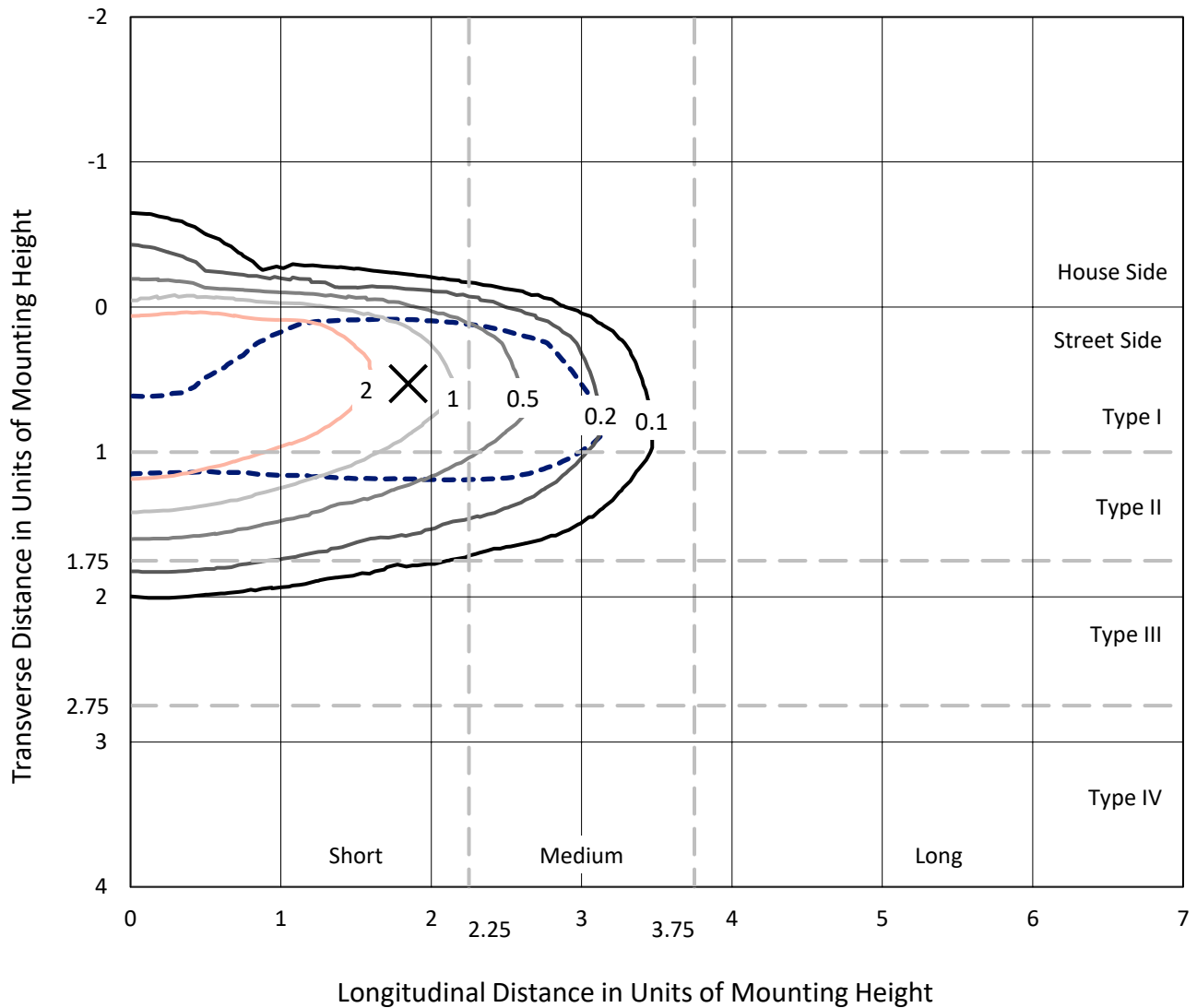
Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P572806
 CATALOG NUMBER: ARCH-S-PA2-120-727-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

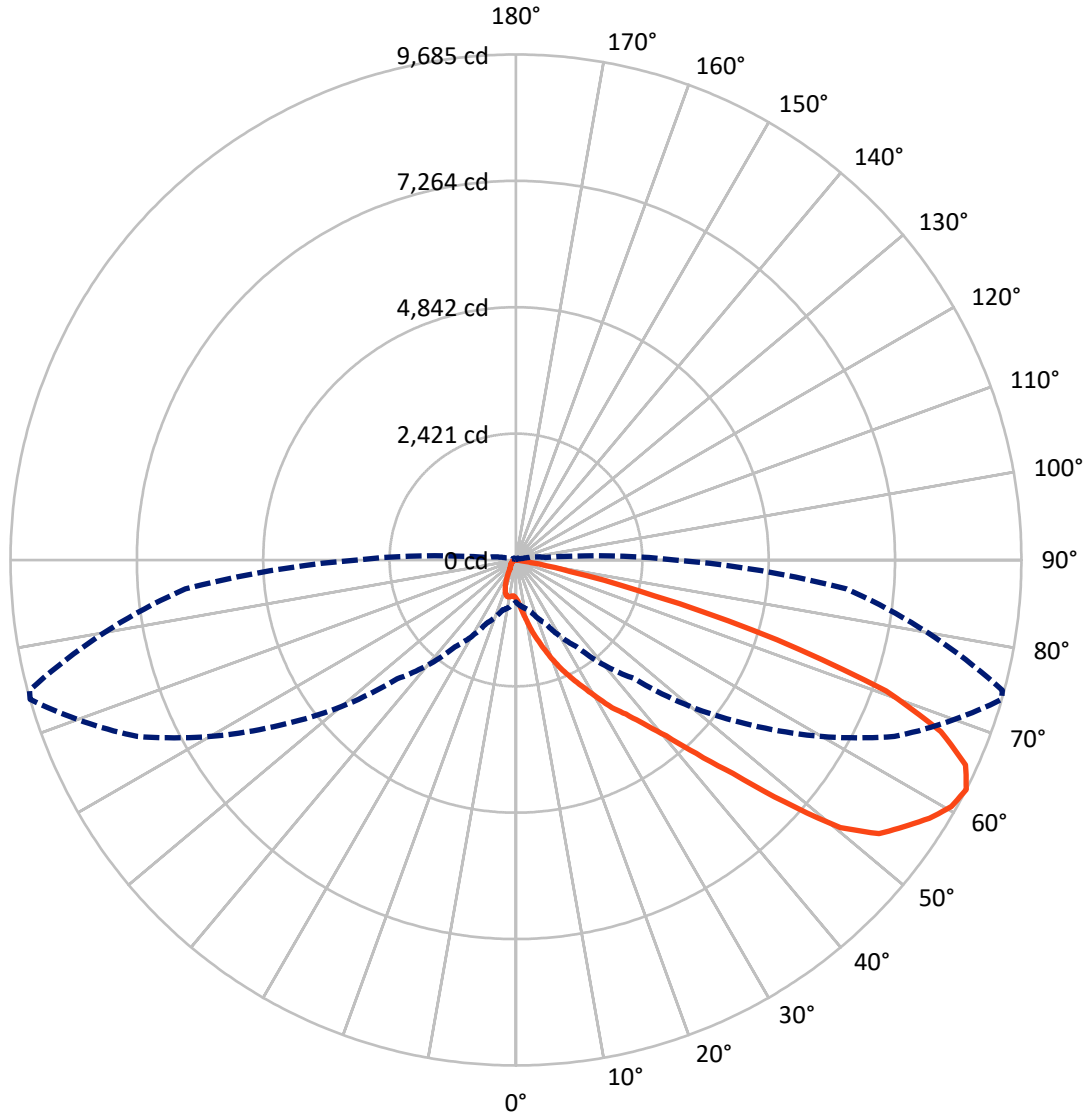
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

REPORT NUMBER: P572806
CATALOG NUMBER: ARCH-S-PA2-120-727-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P572806
 CATALOG NUMBER: ARCH-S-PA2-120-727-U-T2R-HSS

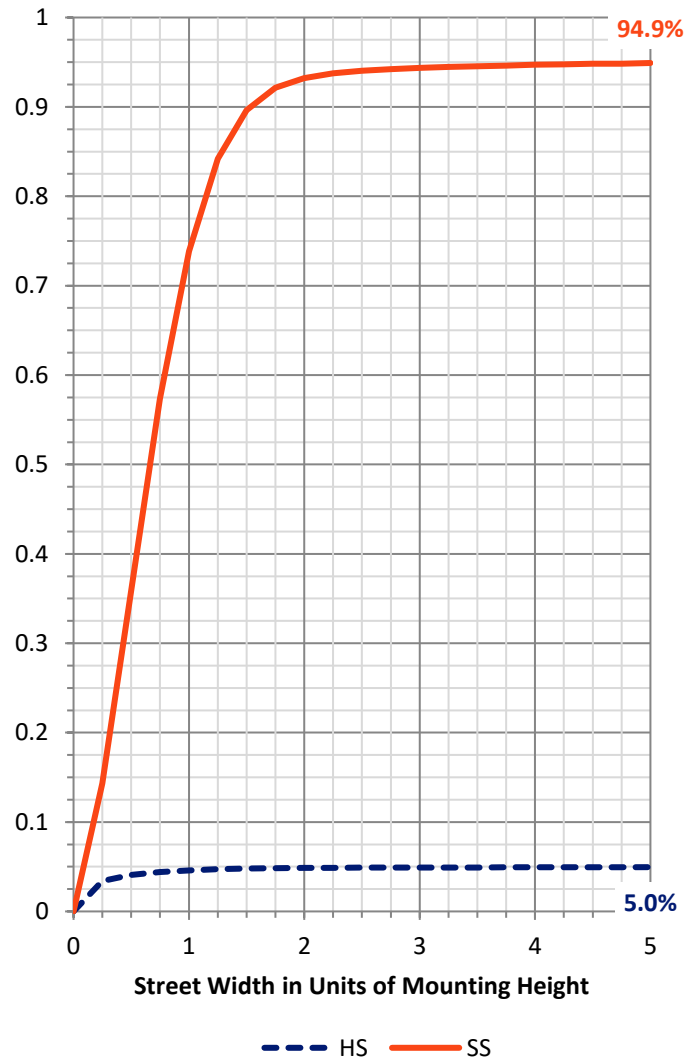
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	501.6	0.0	501.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	9556.4	0.0	9556.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	10058.0	0.0	10058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	0.9
10°-20°	386.8	3.8
20°-30°	830.0	8.3
30°-40°	1455.8	14.5
40°-50°	2256.8	22.4
50°-60°	2601.7	25.9
60°-70°	1827.8	18.2
70°-80°	569.4	5.7
80°-90°	37.6	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°	10058.0	100.0
0°-180°	10058.0	100.0

Coefficient of Utilization



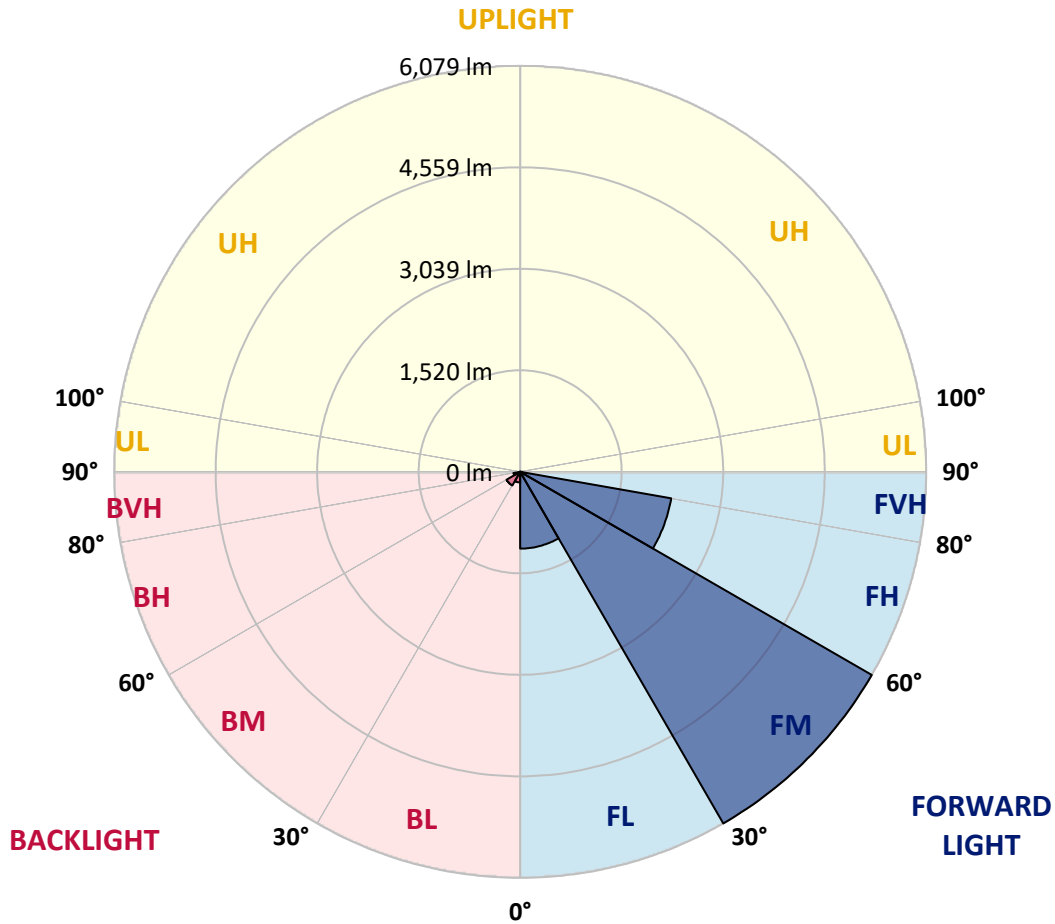
REPORT NUMBER: P572806
 CATALOG NUMBER: ARCH-S-PA2-120-727-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1149.7	11.4			
FM (30°-60°)	6078.5	60.4			
FH (60°-80°)	2295.7	22.8			G2/5000
FVH (80°-90°)	32.5	0.3			G1/100
BL (0°-30°)	159.2	1.6	B1/500		
BM (30°-60°)	235.7	2.3	B1/1000		
BH (60°-80°)	101.5	1.0	B0/110		G0/110
BVH (80°-90°)	5.2	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





REPORT NUMBER: P572806

CATALOG NUMBER: ARCH-S-PA2-120-727-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3
2.5°	1023.0	1005.3	984.1	966.4	931.0	906.2	874.3	838.9	800.0	796.5	764.6
5°	1433.6	1380.5	1380.5	1334.5	1281.4	1185.8	1097.3	987.6	906.2	899.1	814.2
7.5°	1854.9	1812.4	1787.6	1716.8	1631.8	1525.6	1384.1	1200.0	1051.3	1026.5	888.5
10°	2247.8	2215.9	2169.9	2113.3	2038.9	1865.5	1688.5	1447.8	1210.6	1192.9	977.0
12.5°	2552.2	2513.3	2492.0	2467.2	2371.7	2233.6	2003.5	1699.1	1415.9	1377.0	1065.5
15°	2782.3	2764.6	2743.3	2743.3	2693.8	2559.3	2322.1	1968.1	1614.1	1568.1	1178.8
17.5°	2966.3	2945.1	2941.6	2962.8	2948.6	2853.1	2630.1	2226.5	1819.5	1784.1	1295.6
20°	3171.7	3143.3	3143.3	3161.0	3157.5	3104.4	2909.7	2523.9	2060.2	1996.4	1430.1
22.5°	3461.9	3444.2	3430.1	3401.7	3380.5	3330.9	3161.0	2814.1	2290.2	2230.1	1568.1
25°	3851.3	3830.1	3766.3	3716.8	3624.7	3550.4	3405.3	3072.5	2523.9	2456.6	1702.6
27.5°	4230.0	4187.6	4127.4	4063.7	3961.0	3833.6	3653.1	3316.8	2768.1	2697.3	1840.7
30°	4630.0	4598.2	4523.9	4421.2	4293.8	4152.2	3936.2	3610.6	3047.8	2969.9	1989.4
32.5°	4948.6	4899.1	4831.8	4732.7	4601.7	4502.6	4269.0	3932.7	3369.9	3267.2	2145.1
35°	5203.5	5164.6	5076.1	4980.5	4881.4	4853.1	4598.2	4194.7	3628.3	3532.7	2311.5
37.5°	5366.3	5327.4	5253.0	5157.5	5118.5	5168.1	5001.7	4552.2	3975.2	3854.8	2502.6
40°	5493.8	5447.7	5387.6	5345.1	5330.9	5469.0	5451.3	5015.9	4431.8	4361.0	2764.6
42.5°	5585.8	5539.8	5500.8	5497.3	5589.3	5858.4	6056.6	5663.7	5069.0	4923.8	3100.9
45°	5469.0	5430.0	5451.3	5575.2	5798.2	6223.0	6789.3	6580.5	5837.1	5734.5	3638.9
47.5°	5143.3	5118.5	5214.1	5440.7	5854.8	6446.0	7497.3	7585.8	6934.4	6778.7	4336.2
50°	4633.6	4630.0	4782.3	5090.2	5677.8	6530.9	7854.8	8552.1	8060.1	7900.8	4902.6
52.5°	3943.3	3929.2	4152.2	4580.5	5260.1	6371.6	7922.1	8938.0	8711.4	8523.8	5260.1
55°	3161.0	3129.2	3394.7	3865.5	4644.2	5907.9	7741.5	9022.9	9022.9	8853.0	5525.6
57.5°	2223.0	2272.5	2492.0	3058.4	3883.2	5214.1	7295.5	8945.1	9338.0	9192.8	5883.1
60°	1401.8	1423.0	1663.7	2120.3	2945.1	4286.7	6499.1	8608.8	9589.3	9504.3	6169.9
62.5°	807.1	874.3	994.7	1341.6	2031.8	3221.2	5515.0	8003.5	9684.9	9649.5	6357.5
65°	492.0	499.1	555.7	757.5	1249.5	2198.2	4414.1	7161.0	9468.9	9500.8	6322.1
67.5°	368.1	368.1	385.8	477.9	711.5	1398.2	3256.6	6138.0	8778.7	8881.3	5989.3
70°	318.6	318.6	322.1	350.4	438.9	828.3	2152.2	4948.6	7525.6	7515.0	4948.6
72.5°	251.3	261.9	283.2	297.3	332.7	485.0	1260.2	3458.4	5228.3	5352.2	3185.8
75°	201.8	205.3	233.6	258.4	279.6	329.2	594.7	1922.1	2743.3	2743.3	1401.8
77.5°	155.8	162.8	180.5	205.3	233.6	233.6	247.8	743.4	1061.9	1026.5	414.2
80°	99.1	102.7	131.0	162.8	194.7	166.4	134.5	247.8	290.3	279.6	113.3
82.5°	60.2	63.7	85.0	131.0	131.0	92.0	85.0	102.7	92.0	85.0	46.0
85°	17.7	21.2	60.2	85.0	74.3	35.4	42.5	46.0	42.5	38.9	24.8
87.5°	3.5	3.5	17.7	21.2	17.7	17.7	14.2	17.7	17.7	17.7	10.6
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: P572806
 CATALOG NUMBER: ARCH-S-PA2-120-727-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3	736.3
2.5°	746.9	732.7	704.4	683.2	665.5	647.8	633.6	630.1	623.0	623.0	619.5
5°	778.8	746.9	693.8	658.4	630.1	605.3	584.1	562.8	555.7	548.7	552.2
7.5°	828.3	778.8	704.4	651.3	601.8	545.1	499.1	460.2	431.9	424.8	414.2
10°	892.0	817.7	722.1	637.2	545.1	446.0	382.3	343.4	329.2	311.5	315.0
12.5°	955.7	863.7	736.3	598.2	449.6	350.4	297.3	272.6	261.9	258.4	261.9
15°	1030.1	913.3	729.2	527.4	361.1	283.2	251.3	240.7	233.6	233.6	230.1
17.5°	1104.4	955.7	704.4	435.4	290.3	240.7	226.5	215.9	208.8	205.3	205.3
20°	1185.8	994.7	647.8	346.9	240.7	219.5	205.3	191.1	184.1	184.1	184.1
22.5°	1270.8	1023.0	573.4	276.1	215.9	194.7	180.5	169.9	162.8	162.8	162.8
25°	1345.1	1037.2	485.0	230.1	198.2	177.0	162.8	152.2	148.7	145.1	145.1
27.5°	1415.9	1033.6	392.9	201.8	177.0	159.3	145.1	138.1	131.0	131.0	131.0
30°	1486.7	1012.4	311.5	184.1	162.8	141.6	131.0	123.9	120.4	116.8	116.8
32.5°	1546.9	977.0	244.2	169.9	148.7	127.4	116.8	109.7	109.7	106.2	106.2
35°	1607.1	923.9	205.3	159.3	134.5	116.8	106.2	102.7	99.1	99.1	99.1
37.5°	1670.8	856.6	180.5	145.1	120.4	106.2	99.1	95.6	92.0	88.5	88.5
40°	1748.7	789.4	169.9	134.5	109.7	95.6	88.5	85.0	81.4	81.4	81.4
42.5°	1872.5	732.7	159.3	120.4	99.1	88.5	81.4	74.3	74.3	70.8	70.8
45°	2106.2	711.5	148.7	109.7	92.0	77.9	74.3	67.3	63.7	63.7	63.7
47.5°	2410.6	715.0	138.1	99.1	85.0	70.8	67.3	63.7	56.6	56.6	56.6
50°	2661.9	697.3	127.4	92.0	74.3	67.3	60.2	56.6	53.1	53.1	53.1
52.5°	2761.0	665.5	116.8	85.0	70.8	60.2	56.6	53.1	49.6	49.6	49.6
55°	2860.2	651.3	106.2	74.3	63.7	60.2	53.1	49.6	46.0	42.5	42.5
57.5°	3040.7	658.4	95.6	70.8	60.2	56.6	49.6	42.5	35.4	31.9	31.9
60°	3136.3	633.6	88.5	63.7	56.6	53.1	42.5	31.9	24.8	21.2	21.2
62.5°	3054.8	562.8	81.4	60.2	53.1	46.0	31.9	24.8	17.7	10.6	10.6
65°	2828.3	463.7	74.3	56.6	46.0	35.4	28.3	17.7	10.6	7.1	7.1
67.5°	2541.6	364.6	67.3	53.1	42.5	31.9	24.8	14.2	7.1	3.5	3.5
70°	2053.1	261.9	63.7	49.6	38.9	28.3	21.2	14.2	7.1	3.5	3.5
72.5°	1323.9	169.9	56.6	46.0	35.4	28.3	17.7	10.6	7.1	3.5	3.5
75°	612.4	113.3	53.1	42.5	35.4	24.8	17.7	14.2	7.1	3.5	3.5
77.5°	180.5	81.4	49.6	38.9	31.9	24.8	17.7	14.2	7.1	3.5	3.5
80°	74.3	56.6	38.9	35.4	31.9	24.8	17.7	14.2	7.1	3.5	3.5
82.5°	35.4	24.8	17.7	14.2	17.7	17.7	14.2	14.2	7.1	3.5	3.5
85°	17.7	10.6	7.1	7.1	7.1	3.5	3.5	7.1	7.1	3.5	3.5
87.5°	10.6	7.1	7.1	7.1	3.5	3.5	3.5	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)