

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: P573359

Luminaire Tested: **ARCH-S-PA2-60-830-U-T3-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-18)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-60-830-U-T3-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5594 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

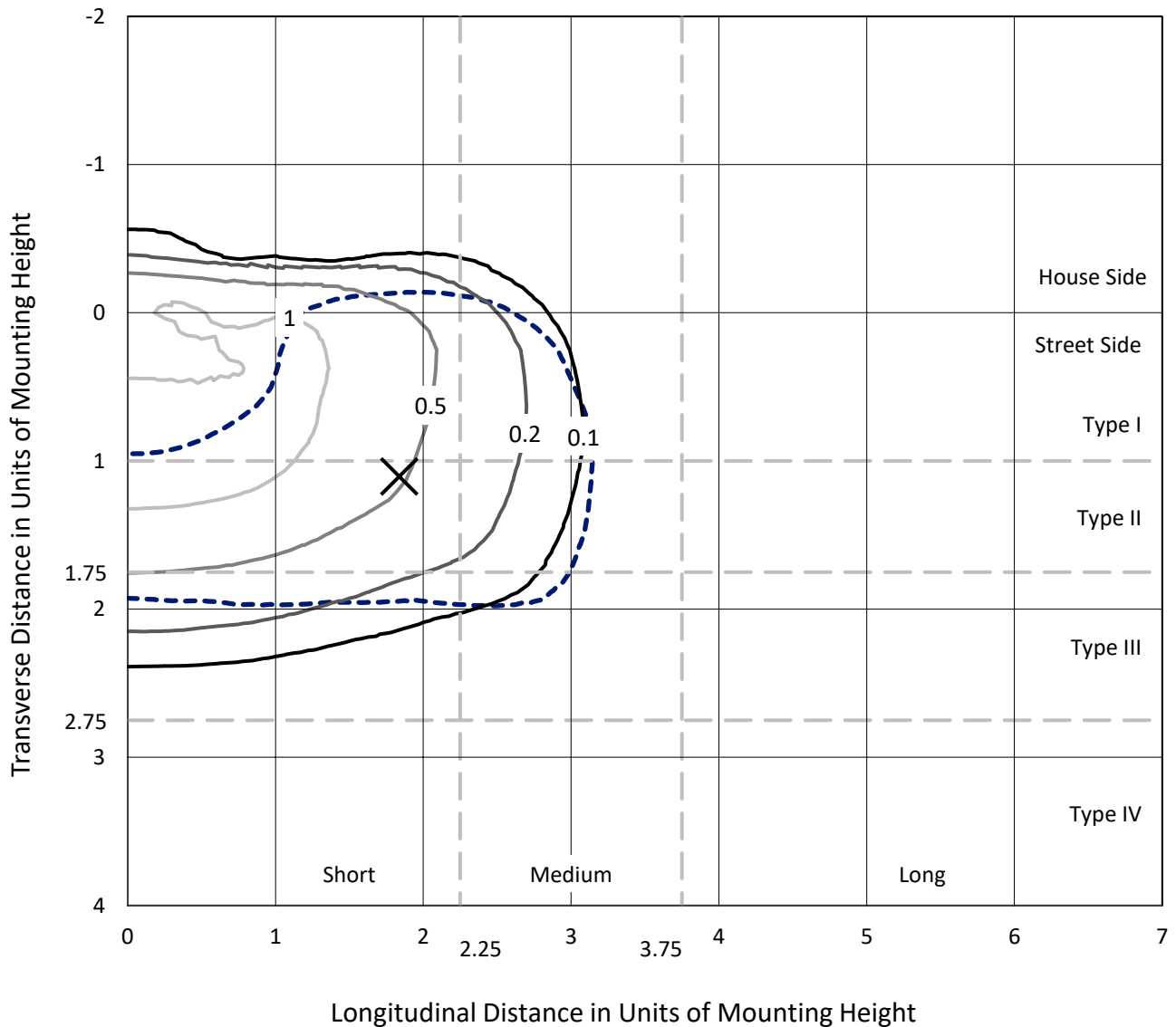
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

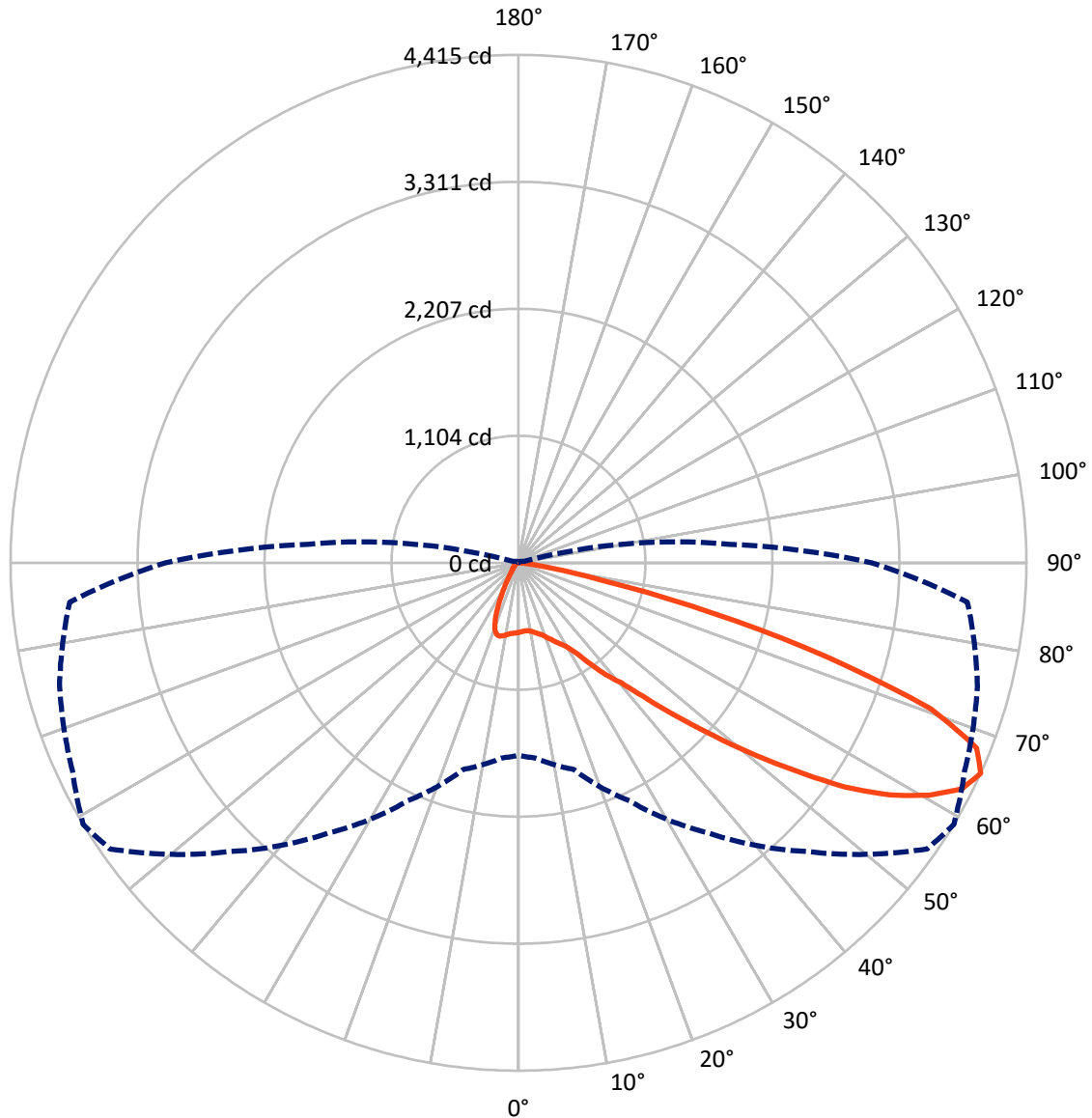
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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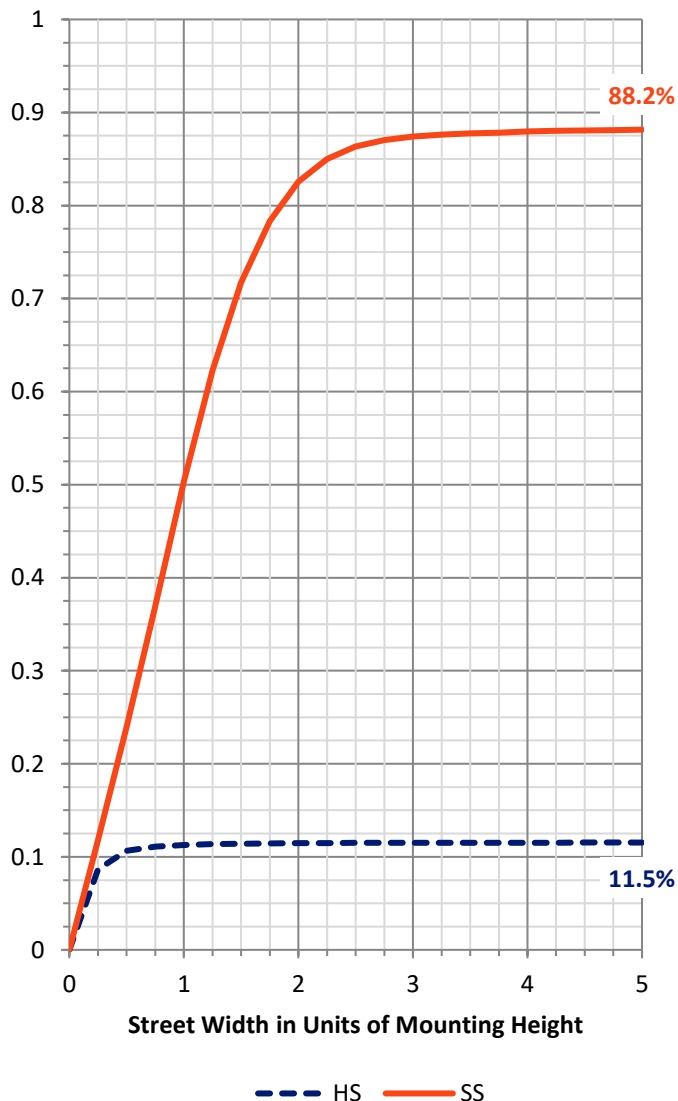
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	652.6	0.0	652.6
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	4941.4	0.0	4941.4
	% Fixture	88.3	0.0	88.3
Total	Lumens	5594.0	0.0	5594.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	1.0
10°-20°	162.3	2.9
20°-30°	275.6	4.9
30°-40°	488.2	8.7
40°-50°	921.0	16.5
50°-60°	1558.3	27.9
60°-70°	1620.1	29.0
70°-80°	485.8	8.7
80°-90°	25.5	0.5
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°	5594.0	100.0
0°-180°	5594.0	100.0

Coefficient of Utilization

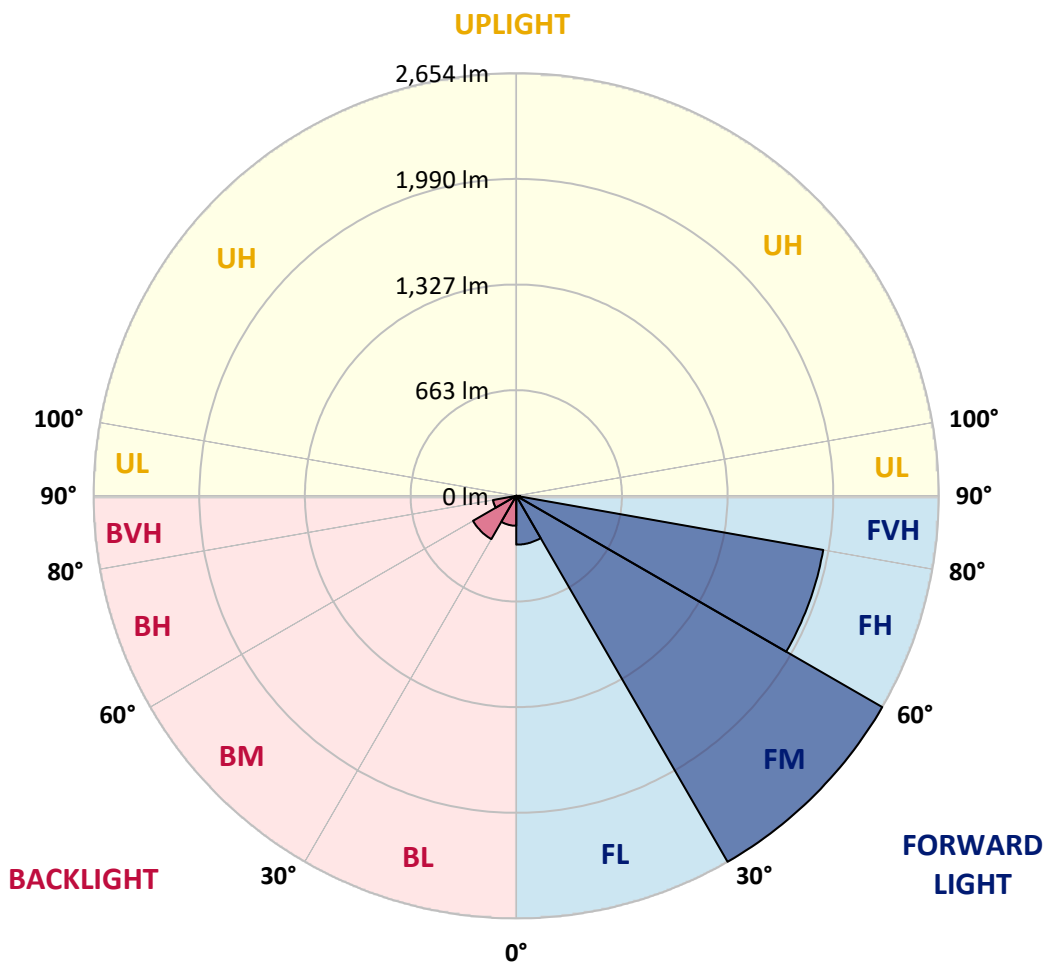


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	306.8	5.5			
FM (30°-60°)	2653.8	47.4			
FH (60°-80°)	1957.5	35.0			G2/5000
FVH (80°-90°)	23.3	0.4			G1/100
BL (0°-30°)	188.3	3.4	B1/500		
BM (30°-60°)	313.7	5.6	B1/1000		
BH (60°-80°)	148.5	2.7	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5
2.5°	588.2	586.2	586.2	590.2	592.3	594.3	598.4	598.4	598.4	602.5	604.5
5°	559.7	559.7	561.7	565.8	574.0	580.1	592.3	594.3	596.3	606.5	610.6
7.5°	541.4	541.4	543.4	551.6	561.7	576.0	592.3	596.3	602.5	616.7	626.9
10°	539.4	537.3	541.4	549.5	561.7	580.1	598.4	604.5	616.7	635.0	649.3
12.5°	545.5	543.4	547.5	555.6	567.9	586.2	610.6	620.8	635.0	659.4	679.8
15°	549.5	547.5	551.6	561.7	576.0	598.4	626.9	639.1	657.4	692.0	712.4
17.5°	561.7	559.7	561.7	569.9	584.1	608.6	645.2	657.4	687.9	726.6	749.0
20°	616.7	614.7	602.5	598.4	600.4	622.8	669.6	690.0	726.6	775.5	791.7
22.5°	730.7	722.5	700.1	663.5	639.1	647.2	700.1	722.5	771.4	826.3	838.5
25°	883.3	877.2	844.7	781.6	712.4	692.0	734.7	765.3	824.3	885.4	881.3
27.5°	1056.3	1044.1	1013.6	926.1	832.4	765.3	777.5	803.9	869.1	934.2	913.9
30°	1206.9	1202.9	1168.3	1095.0	985.1	885.4	842.6	856.9	915.9	985.1	960.7
32.5°	1345.3	1333.1	1304.6	1235.4	1133.7	1031.9	946.4	946.4	995.3	1076.7	1040.0
35°	1498.0	1489.8	1455.2	1386.0	1288.4	1168.3	1090.9	1082.8	1123.5	1215.1	1135.7
37.5°	1654.7	1634.4	1618.1	1546.8	1449.1	1345.3	1251.7	1233.4	1253.8	1320.9	1223.2
40°	1850.1	1850.1	1813.5	1748.3	1656.7	1546.8	1416.6	1369.8	1363.7	1451.2	1375.9
42.5°	2078.1	2071.9	2041.4	1980.4	1892.8	1791.1	1626.2	1583.5	1579.4	1685.2	1595.7
45°	2340.6	2336.5	2299.9	2249.0	2188.0	2076.0	1913.2	1870.5	1846.0	1968.1	1862.3
47.5°	2580.8	2566.5	2554.3	2560.4	2525.8	2399.6	2247.0	2196.1	2194.1	2289.7	2153.4
50°	2745.6	2737.5	2780.2	2820.9	2886.1	2806.7	2625.6	2580.8	2546.2	2672.4	2456.6
52.5°	2853.5	2849.4	2934.9	3050.9	3185.3	3179.2	3018.4	2991.9	2963.4	2998.0	2727.3
55°	2896.2	2896.2	2998.0	3211.7	3447.8	3549.6	3474.3	3437.6	3337.9	3266.7	3024.5
57.5°	2845.4	2839.3	2971.6	3250.4	3610.6	3820.3	3852.8	3810.1	3653.4	3574.0	3354.2
60°	2629.6	2633.7	2790.4	3142.5	3598.4	3930.2	4139.8	4101.2	3944.4	3826.4	3631.0
62.5°	2226.6	2261.2	2426.1	2808.7	3337.9	3842.7	4304.7	4325.0	4156.1	4009.6	3877.3
65°	1673.0	1703.6	1860.3	2283.6	2863.7	3549.6	4335.2	4414.6	4278.2	4129.6	3915.9
67.5°	1017.7	1027.8	1219.2	1538.7	2108.6	2957.3	4121.5	4294.5	4196.8	3952.6	3533.3
70°	474.2	500.7	594.3	840.6	1335.2	2177.8	3561.8	3806.0	3696.1	3392.9	2686.6
72.5°	185.2	193.4	252.4	388.7	708.3	1369.8	2658.1	2820.9	2745.6	2409.8	1601.8
75°	91.6	97.7	122.1	185.2	323.6	565.8	1624.2	1730.0	1605.9	1211.0	677.8
77.5°	67.2	67.2	81.4	114.0	177.1	209.6	683.9	767.3	724.6	468.1	185.2
80°	44.8	48.8	57.0	77.3	111.9	101.8	258.5	307.3	256.4	144.5	65.1
82.5°	26.5	28.5	42.7	55.0	75.3	59.0	87.5	97.7	105.8	71.2	30.5
85°	14.2	14.2	28.5	40.7	40.7	26.5	30.5	34.6	40.7	42.7	16.3
87.5°	4.1	4.1	18.3	24.4	16.3	14.2	16.3	16.3	18.3	22.4	8.1
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°	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5	604.5
2.5°	606.5	606.5	608.6	608.6	610.6	610.6	610.6	610.6	612.6	614.7	614.7
5°	612.6	614.7	614.7	614.7	614.7	610.6	608.6	606.5	606.5	608.6	608.6
7.5°	628.9	630.9	628.9	624.8	618.7	610.6	602.5	602.5	600.4	602.5	600.4
10°	653.3	653.3	651.3	641.1	630.9	614.7	598.4	586.2	578.0	576.0	571.9
12.5°	683.9	683.9	677.8	659.4	641.1	610.6	567.9	527.1	494.6	480.3	476.3
15°	714.4	714.4	706.3	679.8	643.2	569.9	480.3	394.9	346.0	325.6	313.4
17.5°	751.0	747.0	732.7	696.1	620.8	488.5	344.0	256.4	217.8	199.5	199.5
20°	789.7	785.6	759.2	698.1	563.8	350.1	223.9	177.1	166.9	162.8	162.8
22.5°	832.4	822.3	781.6	681.8	443.7	238.1	168.9	156.7	152.6	150.6	150.6
25°	867.0	850.8	797.8	637.1	317.5	166.9	148.6	144.5	136.4	134.3	130.3
27.5°	893.5	869.1	803.9	541.4	209.6	138.4	132.3	124.2	116.0	107.9	107.9
30°	928.1	897.6	808.0	421.3	142.5	120.1	114.0	103.8	93.6	85.5	85.5
32.5°	997.3	952.5	810.1	295.1	118.0	105.8	93.6	81.4	71.2	67.2	65.1
35°	1072.6	1011.5	787.7	191.3	103.8	89.6	75.3	65.1	55.0	52.9	52.9
37.5°	1156.1	1099.1	738.8	130.3	91.6	75.3	61.1	50.9	44.8	42.7	42.7
40°	1296.5	1229.3	657.4	103.8	79.4	63.1	50.9	42.7	38.7	36.6	36.6
42.5°	1498.0	1382.0	555.6	89.6	69.2	52.9	40.7	34.6	32.6	30.5	30.5
45°	1730.0	1552.9	437.6	81.4	61.1	44.8	34.6	30.5	28.5	26.5	26.5
47.5°	1996.6	1730.0	346.0	71.2	52.9	38.7	30.5	26.5	24.4	22.4	22.4
50°	2249.0	1868.4	260.5	63.1	46.8	32.6	26.5	24.4	22.4	20.4	20.4
52.5°	2456.6	1962.0	197.4	55.0	40.7	28.5	24.4	22.4	18.3	18.3	18.3
55°	2707.0	2035.3	150.6	48.8	36.6	26.5	22.4	18.3	16.3	14.2	14.2
57.5°	2924.7	2061.8	109.9	42.7	32.6	24.4	20.4	16.3	12.2	10.2	10.2
60°	3071.3	2039.4	79.4	36.6	28.5	20.4	16.3	12.2	8.1	6.1	6.1
62.5°	3175.1	1990.5	61.1	32.6	24.4	18.3	14.2	10.2	6.1	4.1	4.1
65°	3071.3	1839.9	48.8	28.5	20.4	16.3	10.2	8.1	4.1	2.0	2.0
67.5°	2656.1	1542.8	38.7	24.4	18.3	14.2	10.2	6.1	2.0	0.0	0.0
70°	1909.1	1101.1	32.6	22.4	16.3	12.2	8.1	4.1	2.0	0.0	0.0
72.5°	1064.5	567.9	30.5	20.4	16.3	12.2	8.1	4.1	2.0	0.0	0.0
75°	431.5	195.4	28.5	20.4	16.3	10.2	8.1	4.1	2.0	0.0	0.0
77.5°	126.2	67.2	24.4	18.3	16.3	12.2	8.1	4.1	2.0	0.0	0.0
80°	44.8	30.5	18.3	16.3	12.2	10.2	8.1	6.1	2.0	0.0	0.0
82.5°	20.4	12.2	8.1	6.1	6.1	6.1	6.1	4.1	2.0	0.0	0.0
85°	8.1	6.1	4.1	2.0	2.0	2.0	2.0	2.0	2.0	0.0	0.0
87.5°	6.1	4.1	2.0	2.0	2.0	2.0	0.0	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)