

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: P573139

Luminaire Tested: **ARCH-S-PA2-40-730-U-T2R-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573139
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-PA2-40-730-U-T2R-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 420mA 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: 4694 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

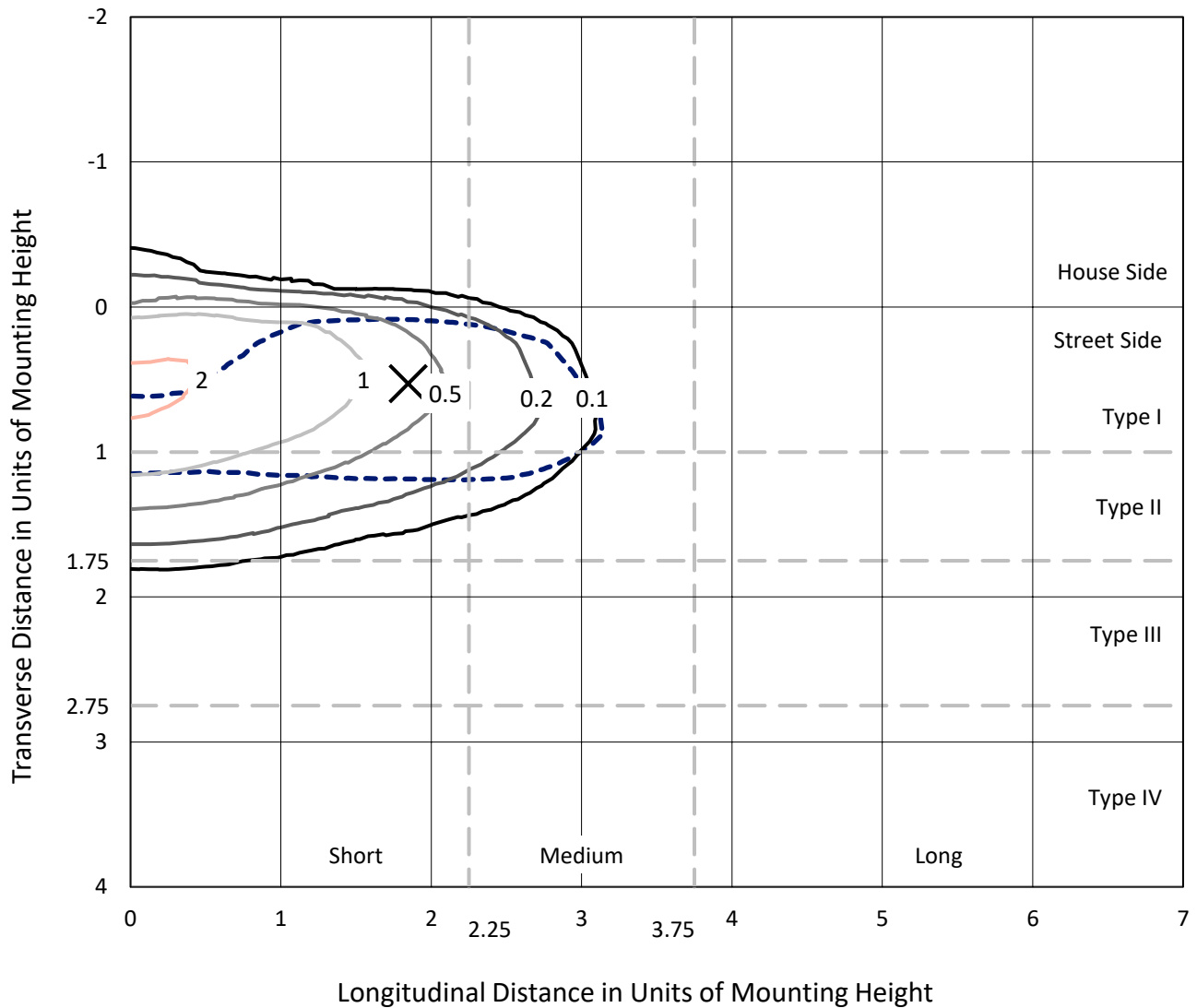
Input Watts (W): 43.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

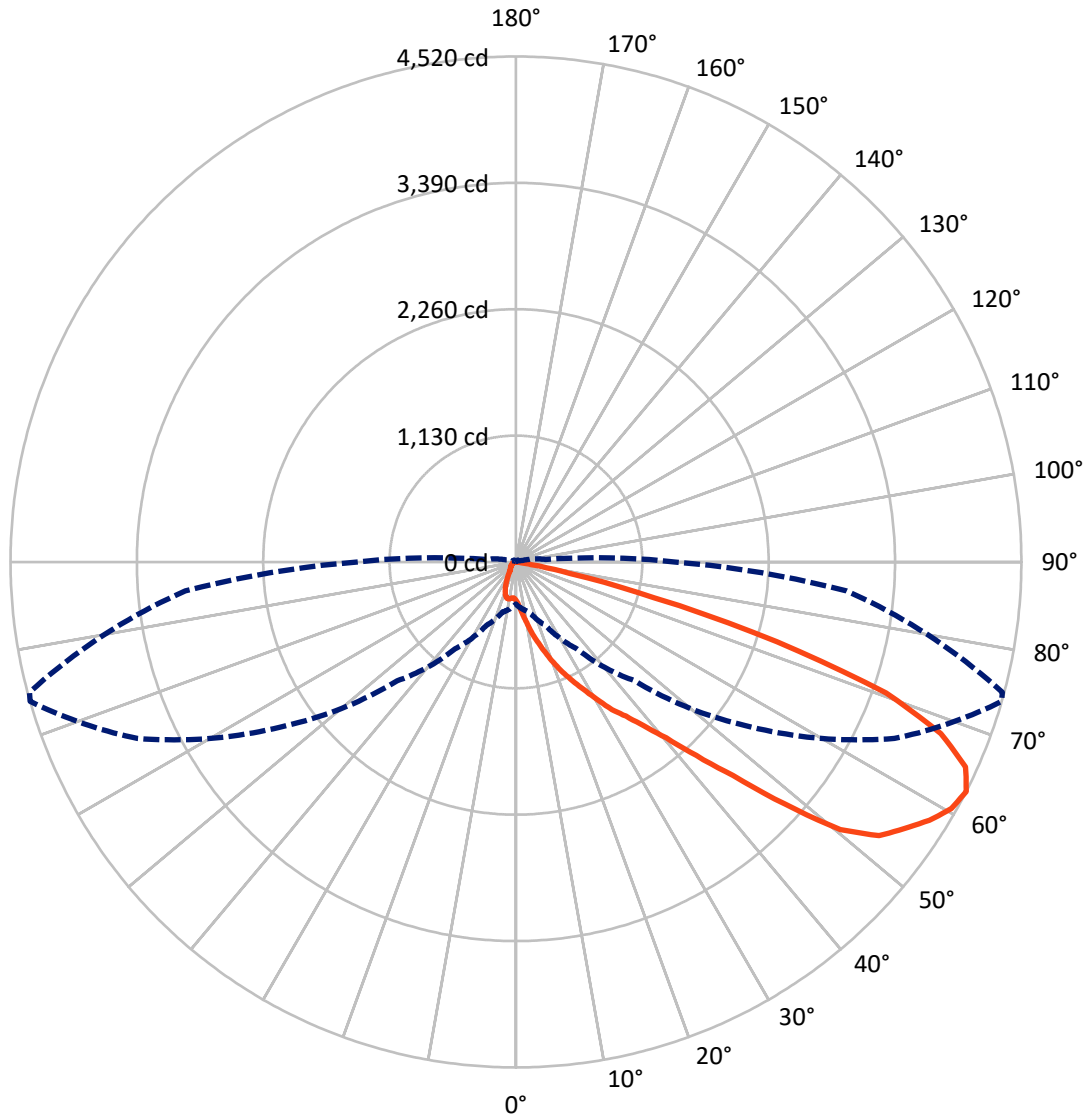
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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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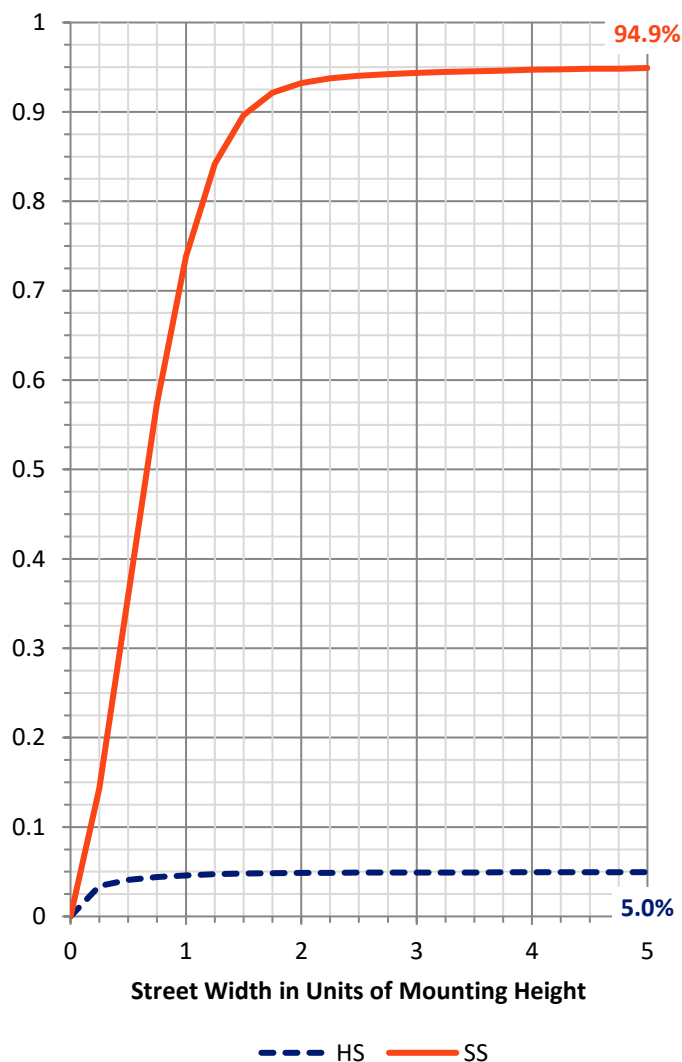
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	234.1	0.0	234.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4459.9	0.0	4459.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	4694.0	0.0	4694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	0.9
10°-20°	180.5	3.8
20°-30°	387.4	8.3
30°-40°	679.4	14.5
40°-50°	1053.2	22.4
50°-60°	1214.2	25.9
60°-70°	853.0	18.2
70°-80°	265.8	5.7
80°-90°	17.6	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°	4694.0	100.0
0°-180°	4694.0	100.0

Coefficient of Utilization



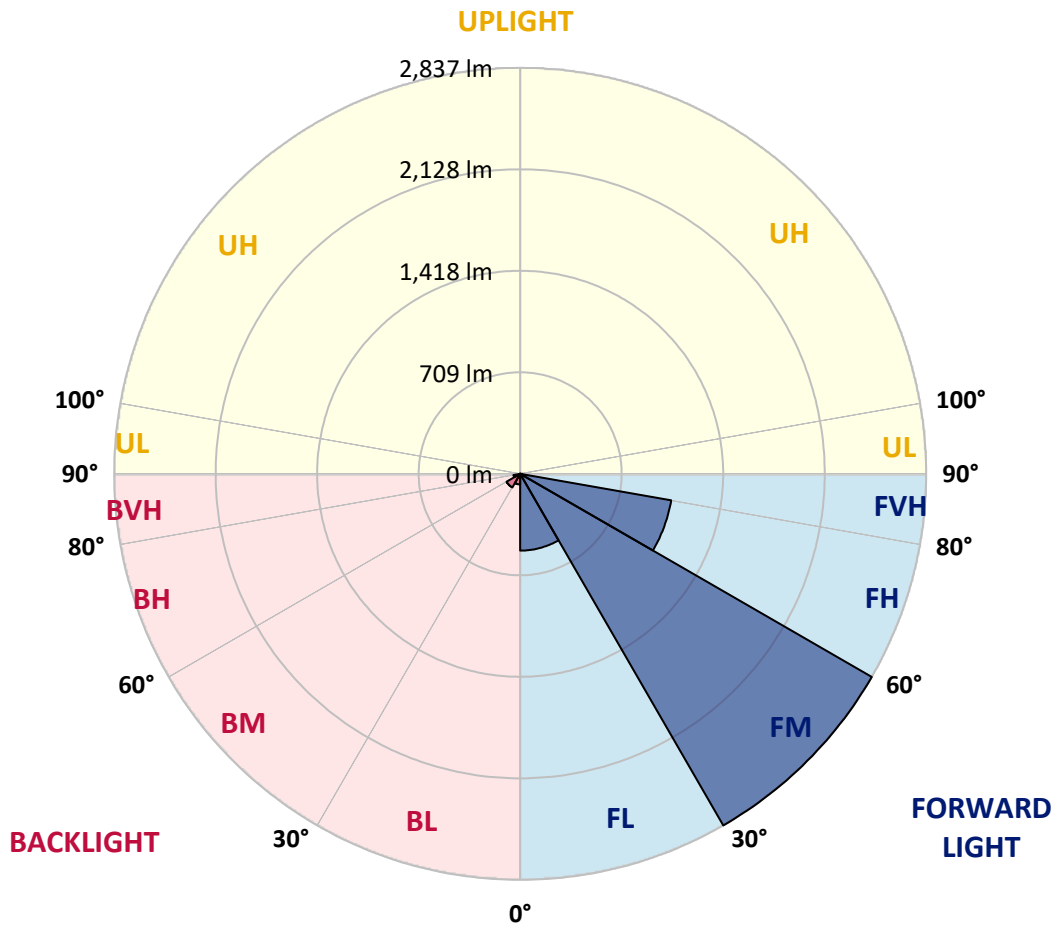
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	536.5	11.4			
FM (30°-60°)	2836.8	60.4			
FH (60°-80°)	1071.4	22.8			G1/1800
FVH (80°-90°)	15.2	0.3			G1/100
BL (0°-30°)	74.3	1.6	B0/110		
BM (30°-60°)	110.0	2.3	B0/220		
BH (60°-80°)	47.4	1.0	B0/110		G0/110
BVH (80°-90°)	2.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6
2.5°	477.4	469.2	459.3	451.0	434.5	422.9	408.0	391.5	373.4	371.7	356.8
5°	669.1	644.3	644.3	622.8	598.0	553.4	512.1	460.9	422.9	419.6	380.0
7.5°	865.6	845.8	834.3	801.2	761.6	712.0	645.9	560.0	490.6	479.1	414.7
10°	1049.0	1034.1	1012.7	986.2	951.5	870.6	788.0	675.7	565.0	556.7	456.0
12.5°	1191.1	1172.9	1163.0	1151.4	1106.8	1042.4	935.0	793.0	660.8	642.6	497.3
15°	1298.5	1290.2	1280.3	1280.3	1257.2	1194.4	1083.7	918.5	753.3	731.8	550.1
17.5°	1384.4	1374.5	1372.8	1382.7	1376.1	1331.5	1227.4	1039.1	849.1	832.6	604.6
20°	1480.2	1467.0	1467.0	1475.2	1473.6	1448.8	1357.9	1177.9	961.5	931.7	667.4
22.5°	1615.7	1607.4	1600.8	1587.6	1577.7	1554.5	1475.2	1313.3	1068.8	1040.8	731.8
25°	1797.4	1787.5	1757.7	1734.6	1691.6	1657.0	1589.2	1433.9	1177.9	1146.5	794.6
27.5°	1974.1	1954.3	1926.2	1896.5	1848.6	1789.1	1704.9	1547.9	1291.9	1258.8	859.0
30°	2160.8	2145.9	2111.3	2063.3	2003.9	1937.8	1837.0	1685.0	1422.4	1386.0	928.4
32.5°	2309.5	2286.4	2255.0	2208.7	2147.6	2101.3	1992.3	1835.4	1572.7	1524.8	1001.1
35°	2428.4	2410.3	2369.0	2324.4	2278.1	2264.9	2145.9	1957.6	1693.3	1648.7	1078.8
37.5°	2504.4	2486.3	2451.6	2407.0	2388.8	2411.9	2334.3	2124.5	1855.2	1799.0	1168.0
40°	2563.9	2542.4	2514.3	2494.5	2487.9	2552.3	2544.1	2340.9	2068.3	2035.3	1290.2
42.5°	2606.8	2585.4	2567.2	2565.5	2608.5	2734.1	2826.6	2643.2	2365.7	2297.9	1447.1
45°	2552.3	2534.2	2544.1	2601.9	2706.0	2904.2	3168.5	3071.1	2724.1	2676.2	1698.3
47.5°	2400.4	2388.8	2433.4	2539.1	2732.4	3008.3	3498.9	3540.2	3236.3	3163.6	2023.7
50°	2162.5	2160.8	2231.8	2375.6	2649.8	3047.9	3665.8	3991.2	3761.6	3687.3	2288.0
52.5°	1840.3	1833.7	1937.8	2137.7	2454.9	2973.6	3697.2	4171.3	4065.6	3978.0	2454.9
55°	1475.2	1460.4	1584.3	1804.0	2167.4	2757.2	3612.9	4210.9	4210.9	4131.6	2578.8
57.5°	1037.5	1060.6	1163.0	1427.3	1812.2	2433.4	3404.8	4174.6	4358.0	4290.2	2745.6
60°	654.2	664.1	776.4	989.5	1374.5	2000.6	3033.1	4017.7	4475.3	4435.6	2879.4
62.5°	376.7	408.0	464.2	626.1	948.2	1503.3	2573.8	3735.2	4519.9	4503.3	2967.0
65°	229.6	232.9	259.4	353.5	583.2	1025.9	2060.0	3342.0	4419.1	4434.0	2950.5
67.5°	171.8	171.8	180.1	223.0	332.1	652.5	1519.8	2864.6	4097.0	4144.9	2795.2
70°	148.7	148.7	150.3	163.5	204.8	386.6	1004.4	2309.5	3512.1	3507.2	2309.5
72.5°	117.3	122.2	132.2	138.8	155.3	226.3	588.1	1614.0	2440.0	2497.8	1486.8
75°	94.2	95.8	109.0	120.6	130.5	153.6	277.5	897.0	1280.3	1280.3	654.2
77.5°	72.7	76.0	84.3	95.8	109.0	109.0	115.6	346.9	495.6	479.1	193.3
80°	46.3	47.9	61.1	76.0	90.9	77.6	62.8	115.6	135.5	130.5	52.9
82.5°	28.1	29.7	39.6	61.1	61.1	43.0	39.6	47.9	43.0	39.6	21.5
85°	8.3	9.9	28.1	39.6	34.7	16.5	19.8	21.5	19.8	18.2	11.6
87.5°	1.7	1.7	8.3	9.9	8.3	8.3	6.6	8.3	8.3	8.3	5.0
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°	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6	343.6
2.5°	348.6	342.0	328.7	318.8	310.6	302.3	295.7	294.1	290.8	290.8	289.1
5°	363.4	348.6	323.8	307.3	294.1	282.5	272.6	262.7	259.4	256.1	257.7
7.5°	386.6	363.4	328.7	304.0	280.8	254.4	232.9	214.8	201.5	198.2	193.3
10°	416.3	381.6	337.0	297.4	254.4	208.2	178.4	160.2	153.6	145.4	147.0
12.5°	446.0	403.1	343.6	279.2	209.8	163.5	138.8	127.2	122.2	120.6	122.2
15°	480.7	426.2	340.3	246.1	168.5	132.2	117.3	112.3	109.0	109.0	107.4
17.5°	515.4	446.0	328.7	203.2	135.5	112.3	105.7	100.8	97.5	95.8	95.8
20°	553.4	464.2	302.3	161.9	112.3	102.4	95.8	89.2	85.9	85.9	85.9
22.5°	593.1	477.4	267.6	128.9	100.8	90.9	84.3	79.3	76.0	76.0	76.0
25°	627.8	484.0	226.3	107.4	92.5	82.6	76.0	71.0	69.4	67.7	67.7
27.5°	660.8	482.4	183.4	94.2	82.6	74.3	67.7	64.4	61.1	61.1	61.1
30°	693.8	472.5	145.4	85.9	76.0	66.1	61.1	57.8	56.2	54.5	54.5
32.5°	721.9	456.0	114.0	79.3	69.4	59.5	54.5	51.2	51.2	49.6	49.6
35°	750.0	431.2	95.8	74.3	62.8	54.5	49.6	47.9	46.3	46.3	46.3
37.5°	779.7	399.8	84.3	67.7	56.2	49.6	46.3	44.6	43.0	41.3	41.3
40°	816.1	368.4	79.3	62.8	51.2	44.6	41.3	39.6	38.0	38.0	38.0
42.5°	873.9	342.0	74.3	56.2	46.3	41.3	38.0	34.7	34.7	33.0	33.0
45°	982.9	332.1	69.4	51.2	43.0	36.3	34.7	31.4	29.7	29.7	29.7
47.5°	1125.0	333.7	64.4	46.3	39.6	33.0	31.4	29.7	26.4	26.4	26.4
50°	1242.3	325.4	59.5	43.0	34.7	31.4	28.1	26.4	24.8	24.8	24.8
52.5°	1288.6	310.6	54.5	39.6	33.0	28.1	26.4	24.8	23.1	23.1	23.1
55°	1334.8	304.0	49.6	34.7	29.7	28.1	24.8	23.1	21.5	19.8	19.8
57.5°	1419.1	307.3	44.6	33.0	28.1	26.4	23.1	19.8	16.5	14.9	14.9
60°	1463.7	295.7	41.3	29.7	26.4	24.8	19.8	14.9	11.6	9.9	9.9
62.5°	1425.7	262.7	38.0	28.1	24.8	21.5	14.9	11.6	8.3	5.0	5.0
65°	1319.9	216.4	34.7	26.4	21.5	16.5	13.2	8.3	5.0	3.3	3.3
67.5°	1186.1	170.2	31.4	24.8	19.8	14.9	11.6	6.6	3.3	1.7	1.7
70°	958.2	122.2	29.7	23.1	18.2	13.2	9.9	6.6	3.3	1.7	1.7
72.5°	617.8	79.3	26.4	21.5	16.5	13.2	8.3	5.0	3.3	1.7	1.7
75°	285.8	52.9	24.8	19.8	16.5	11.6	8.3	6.6	3.3	1.7	1.7
77.5°	84.3	38.0	23.1	18.2	14.9	11.6	8.3	6.6	3.3	1.7	1.7
80°	34.7	26.4	18.2	16.5	14.9	11.6	8.3	6.6	3.3	1.7	1.7
82.5°	16.5	11.6	8.3	6.6	8.3	8.3	6.6	6.6	3.3	1.7	1.7
85°	8.3	5.0	3.3	3.3	3.3	1.7	1.7	3.3	3.3	1.7	1.7
87.5°	5.0	3.3	3.3	3.3	1.7	1.7	1.7	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)