

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: P799218

Luminaire Tested: **ARCH2-100-722-U-T2R-HSS**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799218
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-100-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 760mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7866 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 103.3
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

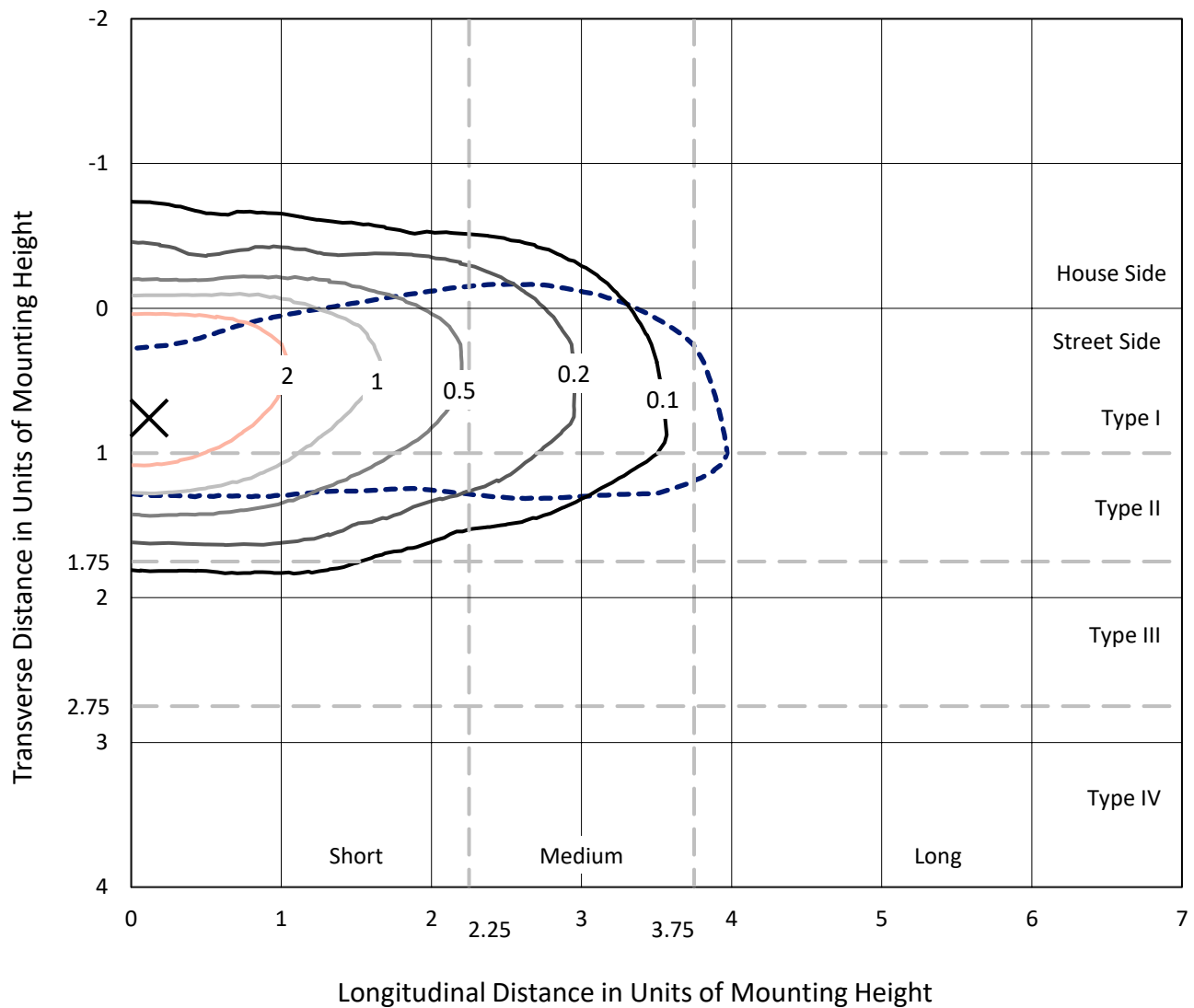


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Iso-Footcandle Lines of Horizontal Illumination

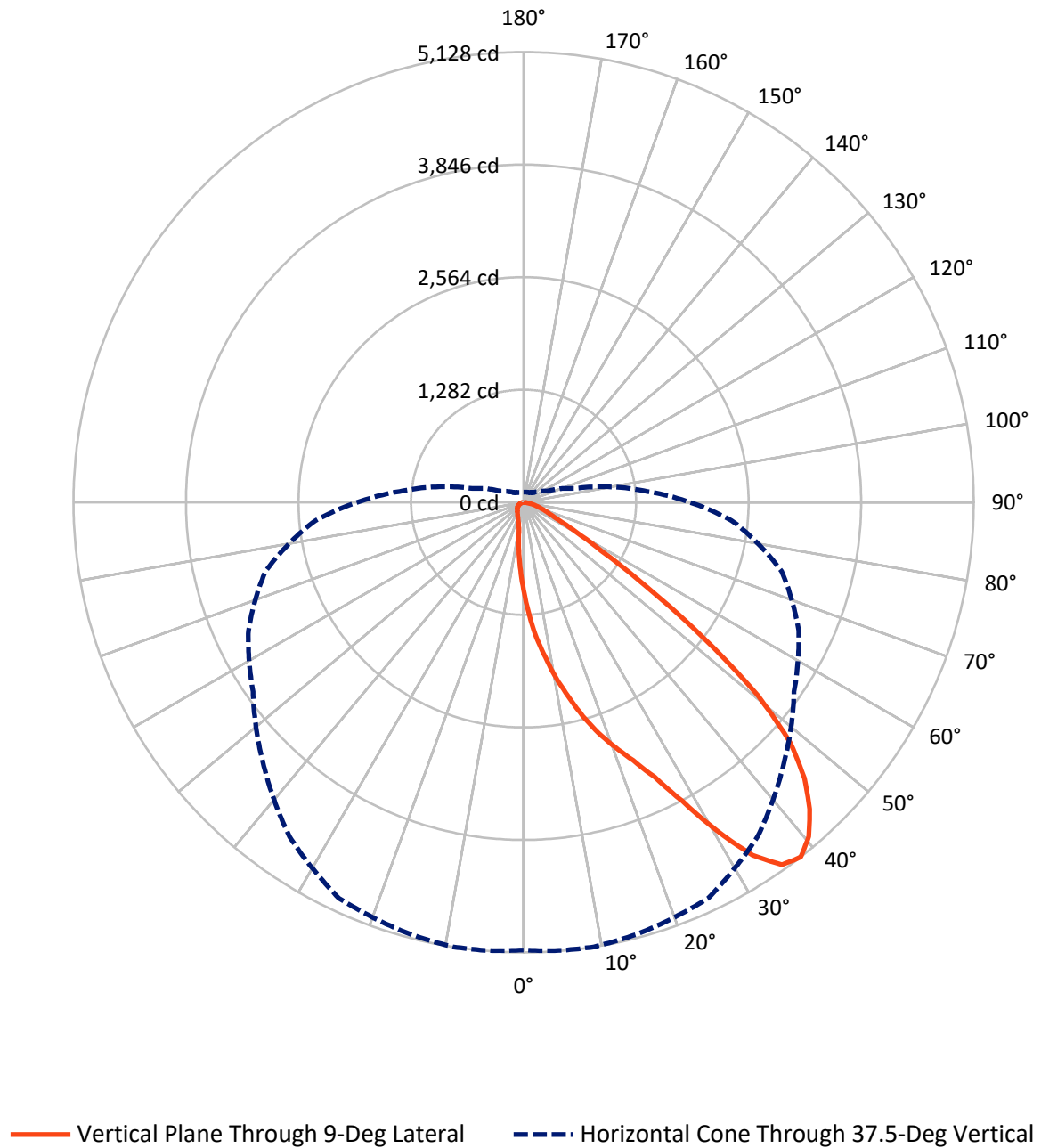
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	956.6	0.0	956.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	6909.4	0.0	6909.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	7866.0	0.0	7866.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	1.3
10°-20°	363.3	4.6
20°-30°	746.4	9.5
30°-40°	1319.3	16.8
40°-50°	1752.6	22.3
50°-60°	1662.3	21.1
60°-70°	1268.2	16.1
70°-80°	614.8	7.8
80°-90°	34.6	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°	7866.0	100.0
0°-180°	7866.0	100.0

Coefficient of Utilization



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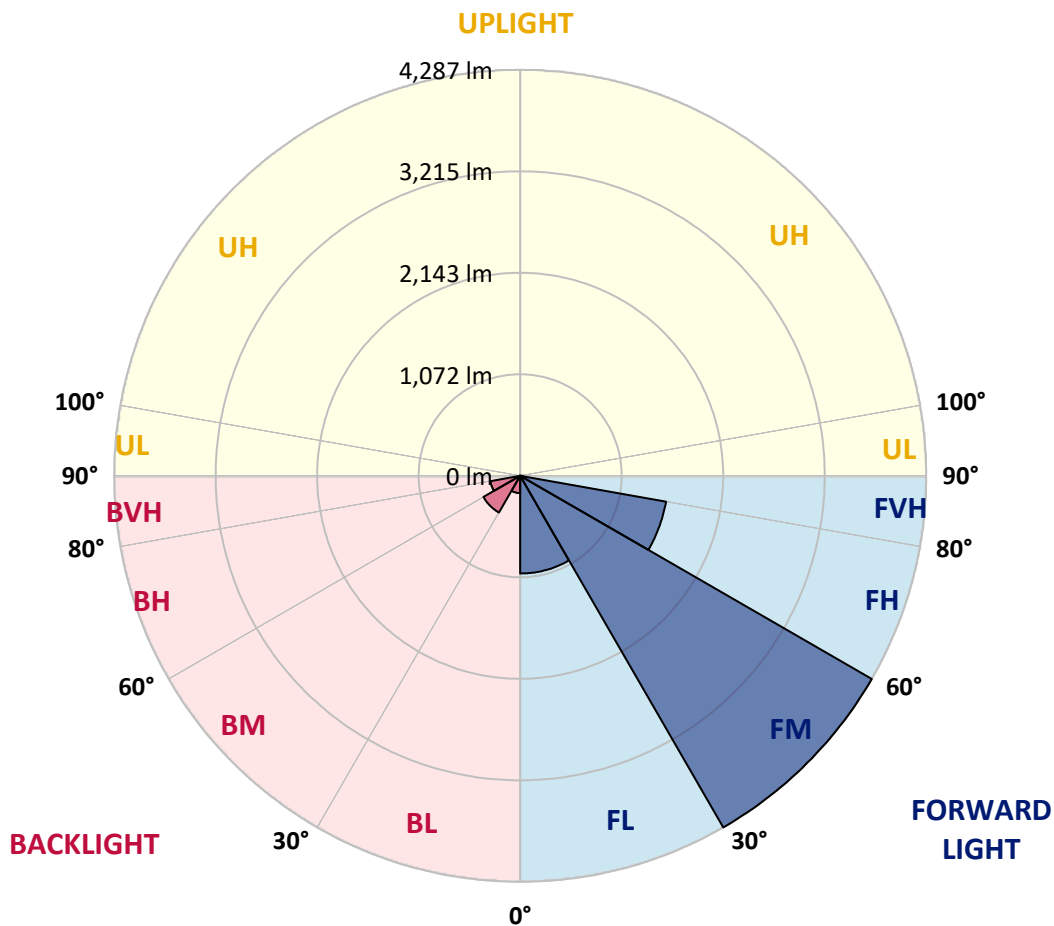
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1031.6	13.1			
FM	(30°-60°)	4286.6	54.5			
FH	(60°-80°)	1563.7	19.9			G1/1800
FVH	(80°-90°)	27.4	0.3			G1/100
BL	(0°-30°)	182.6	2.3	B1/500		
BM	(30°-60°)	447.6	5.7	B1/1000		
BH	(60°-80°)	319.2	4.1	B1/500		G1/500
BVH	(80°-90°)	7.2	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8
2.5°	1288.4	1265.8	1291.7	1288.4	1265.8	1251.3	1206.1	1191.6	1138.3	1099.5	1065.6
5°	1553.2	1530.6	1553.2	1546.8	1514.5	1479.0	1404.7	1356.2	1261.0	1177.0	1101.1
7.5°	1772.8	1772.8	1782.5	1784.1	1745.4	1690.5	1598.4	1525.8	1391.8	1262.6	1141.5
10°	2010.2	2011.8	2032.8	2018.2	1966.6	1892.3	1776.0	1684.0	1522.5	1353.0	1180.3
12.5°	2263.6	2265.3	2271.7	2265.3	2203.9	2108.6	1968.2	1847.1	1661.4	1456.4	1233.5
15°	2517.1	2518.7	2526.8	2515.5	2447.7	2336.3	2176.5	2027.9	1808.3	1572.6	1298.1
17.5°	2754.5	2757.7	2764.2	2749.6	2678.6	2546.2	2383.1	2203.9	1964.9	1696.9	1370.8
20°	2967.6	2970.8	2975.7	2956.3	2885.3	2752.9	2576.9	2389.6	2124.8	1824.5	1449.9
22.5°	3182.3	3185.6	3193.6	3167.8	3088.7	2936.9	2764.2	2570.4	2294.3	1964.9	1541.9
25°	3456.8	3460.0	3466.5	3429.4	3321.2	3143.6	2961.1	2762.5	2478.4	2123.2	1654.9
27.5°	3858.8	3855.6	3855.6	3787.8	3602.1	3371.2	3159.7	2957.9	2677.0	2292.7	1779.3
30°	4356.1	4348.1	4343.2	4251.2	3986.4	3628.0	3363.2	3140.4	2867.5	2471.9	1913.3
32.5°	4801.8	4801.8	4792.1	4695.2	4414.3	3973.5	3579.5	3318.0	3051.6	2652.8	2052.1
35°	5064.9	5076.2	5071.4	4998.7	4793.7	4344.8	3871.8	3531.1	3245.3	2841.7	2218.4
37.5°	5100.5	5123.1	5127.9	5084.3	4976.1	4648.4	4196.3	3762.0	3458.4	3045.1	2379.9
40°	4956.8	5005.2	5005.2	4998.7	4960.0	4792.1	4469.2	4030.0	3678.0	3256.6	2543.0
42.5°	4735.6	4785.6	4779.2	4803.4	4793.7	4758.2	4622.5	4280.3	3897.6	3474.6	2691.5
45°	4446.6	4498.2	4485.3	4528.9	4548.3	4587.0	4606.4	4454.6	4114.0	3711.9	2857.8
47.5°	3983.2	4070.4	4089.7	4167.2	4248.0	4369.1	4461.1	4517.6	4315.8	3967.0	3038.6
50°	3298.6	3421.3	3460.0	3623.1	3844.3	4094.6	4243.1	4440.1	4457.9	4228.6	3234.0
52.5°	2362.1	2504.2	2564.0	2832.0	3287.3	3723.2	3991.2	4269.0	4512.8	4478.8	3445.5
55°	1527.4	1648.5	1706.6	1958.5	2564.0	3248.5	3694.2	4047.8	4482.1	4708.1	3687.7
57.5°	941.3	1010.7	1049.5	1265.8	1822.9	2639.8	3305.0	3844.3	4388.4	4906.7	3939.6
60°	634.5	674.9	694.3	796.0	1238.4	1973.0	2770.6	3631.2	4265.7	5040.7	4168.8
62.5°	421.4	434.3	453.7	516.7	817.0	1385.3	2128.0	3250.2	4173.7	5048.8	4338.4
65°	326.1	332.6	340.7	368.1	503.7	968.7	1496.7	2633.4	4036.5	4877.6	4391.7
67.5°	256.7	263.2	272.9	287.4	364.9	657.1	1018.8	1929.4	3755.5	4609.6	4304.5
70°	201.8	206.7	213.1	226.0	284.2	476.3	673.3	1282.0	3188.8	4354.5	4030.0
72.5°	159.8	164.7	171.1	184.1	230.9	348.7	461.8	799.2	2459.0	4042.9	3502.0
75°	125.9	129.2	134.0	146.9	185.7	271.2	313.2	477.9	1671.1	3473.0	2728.6
77.5°	63.0	77.5	88.8	101.7	135.6	187.3	208.3	264.8	705.6	1782.5	1301.4
80°	37.1	45.2	48.4	56.5	88.8	113.0	113.0	106.6	222.8	684.6	531.2
82.5°	21.0	29.1	30.7	32.3	53.3	64.6	51.7	38.7	45.2	229.3	155.0
85°	6.5	9.7	11.3	12.9	17.8	19.4	17.8	16.1	12.9	22.6	14.5
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	3.2	3.2	4.8	4.8	4.8
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°	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8	1039.8
2.5°	1046.2	1025.3	984.9	947.8	912.2	886.4	862.2	839.6	823.4	810.5	808.9
5°	1060.8	1018.8	941.3	868.6	802.4	747.6	700.7	663.6	636.1	616.8	615.2
7.5°	1080.2	1015.6	897.7	789.5	691.0	611.9	544.1	494.1	458.5	444.0	432.7
10°	1096.3	1012.3	854.1	710.4	581.2	481.1	400.4	350.4	324.5	314.8	310.0
12.5°	1123.7	1015.6	817.0	637.8	486.0	368.1	306.8	279.3	268.0	259.9	258.3
15°	1164.1	1030.1	781.5	566.7	389.1	297.1	261.6	243.8	232.5	230.9	229.3
17.5°	1204.5	1043.0	749.2	494.1	322.9	258.3	234.1	219.6	211.5	209.9	209.9
20°	1251.3	1059.2	713.6	424.6	276.1	232.5	213.1	201.8	192.1	190.5	190.5
22.5°	1306.2	1081.8	679.7	363.3	245.4	213.1	197.0	184.1	176.0	174.4	174.4
25°	1380.5	1115.7	652.3	318.1	224.4	197.0	182.4	171.1	164.7	161.5	161.5
27.5°	1462.8	1162.5	632.9	290.6	209.9	184.1	169.5	159.8	153.4	150.2	150.2
30°	1554.8	1214.2	620.0	279.3	201.8	172.8	159.8	150.2	142.1	140.5	140.5
32.5°	1656.6	1273.9	611.9	280.9	200.2	164.7	150.2	140.5	134.0	130.8	130.8
35°	1769.6	1340.1	607.1	290.6	203.4	158.2	142.1	132.4	125.9	122.7	122.7
37.5°	1895.5	1417.6	607.1	300.3	211.5	156.6	134.0	124.3	119.5	116.2	116.2
40°	2013.4	1499.9	613.5	311.6	219.6	156.6	127.6	119.5	113.0	109.8	109.8
42.5°	2105.4	1546.8	618.4	322.9	224.4	155.0	121.1	113.0	108.2	104.9	104.9
45°	2210.4	1596.8	608.7	327.8	224.4	151.8	116.2	108.2	103.3	100.1	100.1
47.5°	2326.6	1658.2	607.1	331.0	219.6	145.3	111.4	103.3	100.1	96.9	96.9
50°	2444.5	1726.0	610.3	329.4	213.1	135.6	104.9	100.1	95.3	92.0	92.0
52.5°	2578.5	1797.0	616.8	326.1	198.6	124.3	100.1	95.3	90.4	87.2	85.6
55°	2727.0	1874.5	629.7	319.7	179.2	113.0	95.3	90.4	84.0	80.7	79.1
57.5°	2898.2	1969.8	644.2	306.8	158.2	103.3	90.4	84.0	74.3	69.4	67.8
60°	3061.2	2078.0	660.4	276.1	137.2	93.6	85.6	75.9	66.2	63.0	61.4
62.5°	3214.6	2184.5	668.4	221.2	116.2	85.6	80.7	69.4	59.7	56.5	54.9
65°	3313.1	2300.8	650.7	150.2	95.3	79.1	74.3	64.6	54.9	50.1	50.1
67.5°	3319.6	2355.7	589.3	98.5	77.5	71.0	67.8	58.1	48.4	45.2	43.6
70°	3156.5	2273.3	450.5	77.5	64.6	61.4	61.4	51.7	42.0	38.7	37.1
72.5°	2781.9	2013.4	287.4	63.0	54.9	51.7	51.7	43.6	37.1	32.3	30.7
75°	2195.8	1553.2	153.4	51.7	45.2	43.6	40.4	35.5	30.7	27.4	25.8
77.5°	1009.1	684.6	71.0	37.1	33.9	33.9	30.7	25.8	24.2	21.0	21.0
80°	398.8	232.5	35.5	24.2	22.6	22.6	22.6	17.8	17.8	14.5	12.9
82.5°	109.8	48.4	17.8	14.5	14.5	14.5	12.9	11.3	11.3	9.7	9.7
85°	11.3	8.1	8.1	8.1	8.1	6.5	6.5	4.8	3.2	3.2	3.2
87.5°	4.8	4.8	4.8	4.8	4.8	3.2	1.6	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)