

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: P840929

Luminaire Tested: **ARCH4-110-722-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P840929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-722-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11612 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 112.6
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



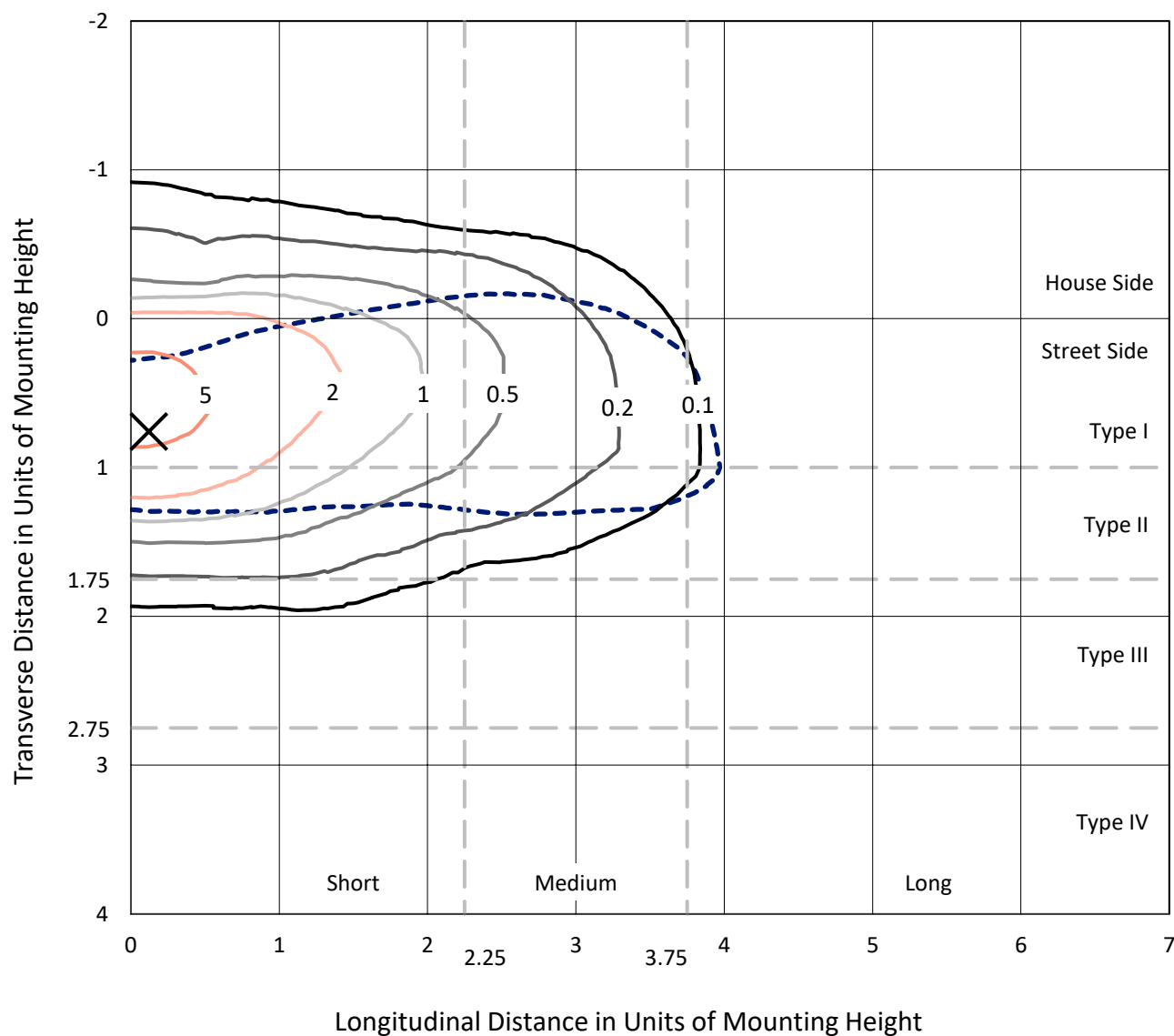
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

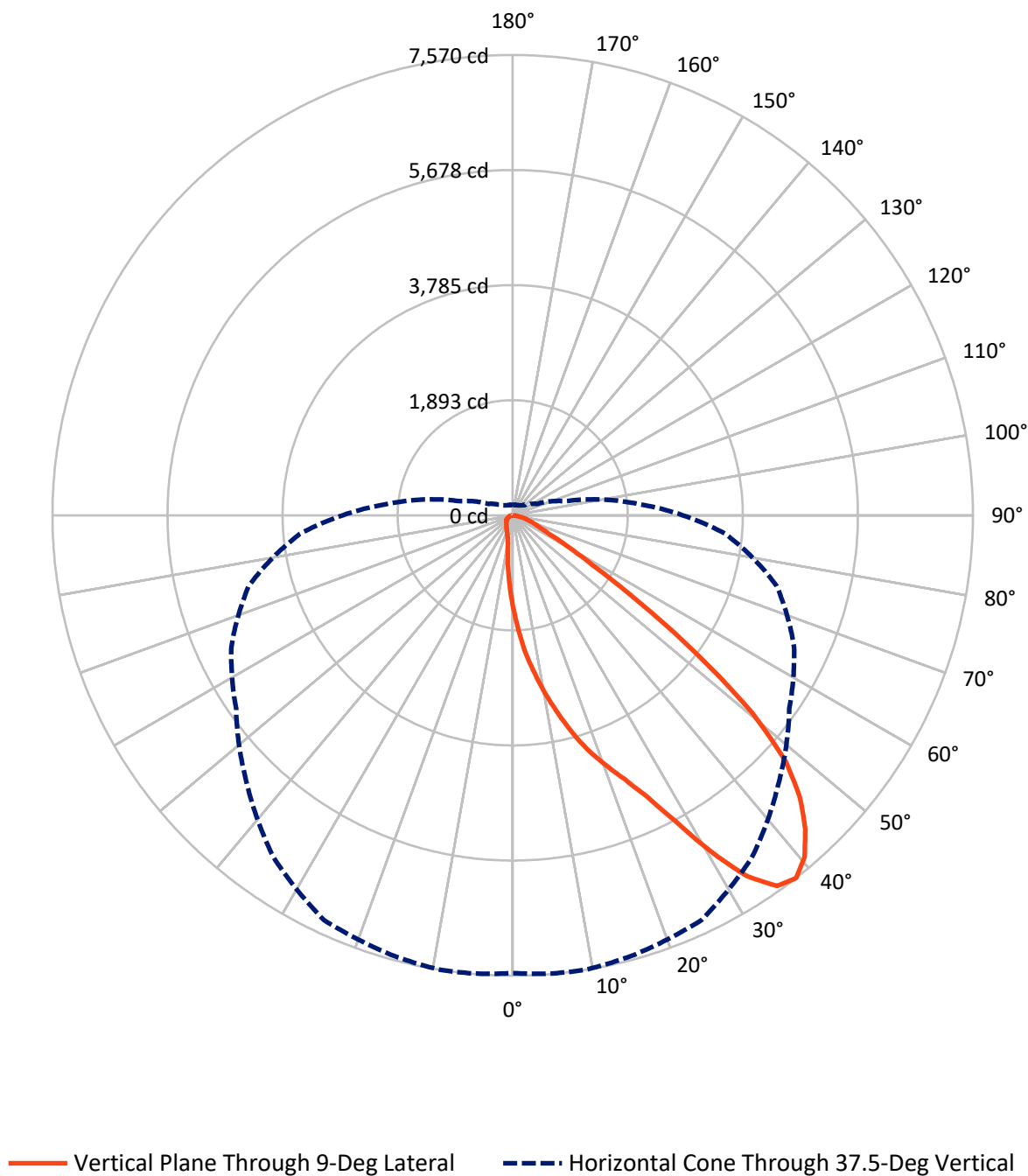


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc

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	1412.2	0.0	1412.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10199.8	0.0	10199.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	11612.0	0.0	11612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	1.3
10°-20°	536.3	4.6
20°-30°	1101.9	9.5
30°-40°	1947.7	16.8
40°-50°	2587.3	22.3
50°-60°	2453.9	21.1
60°-70°	1872.1	16.1
70°-80°	907.6	7.8
80°-90°	51.1	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°	11612.0	100.0
0°-180°	11612.0	100.0

Coefficient of Utilization



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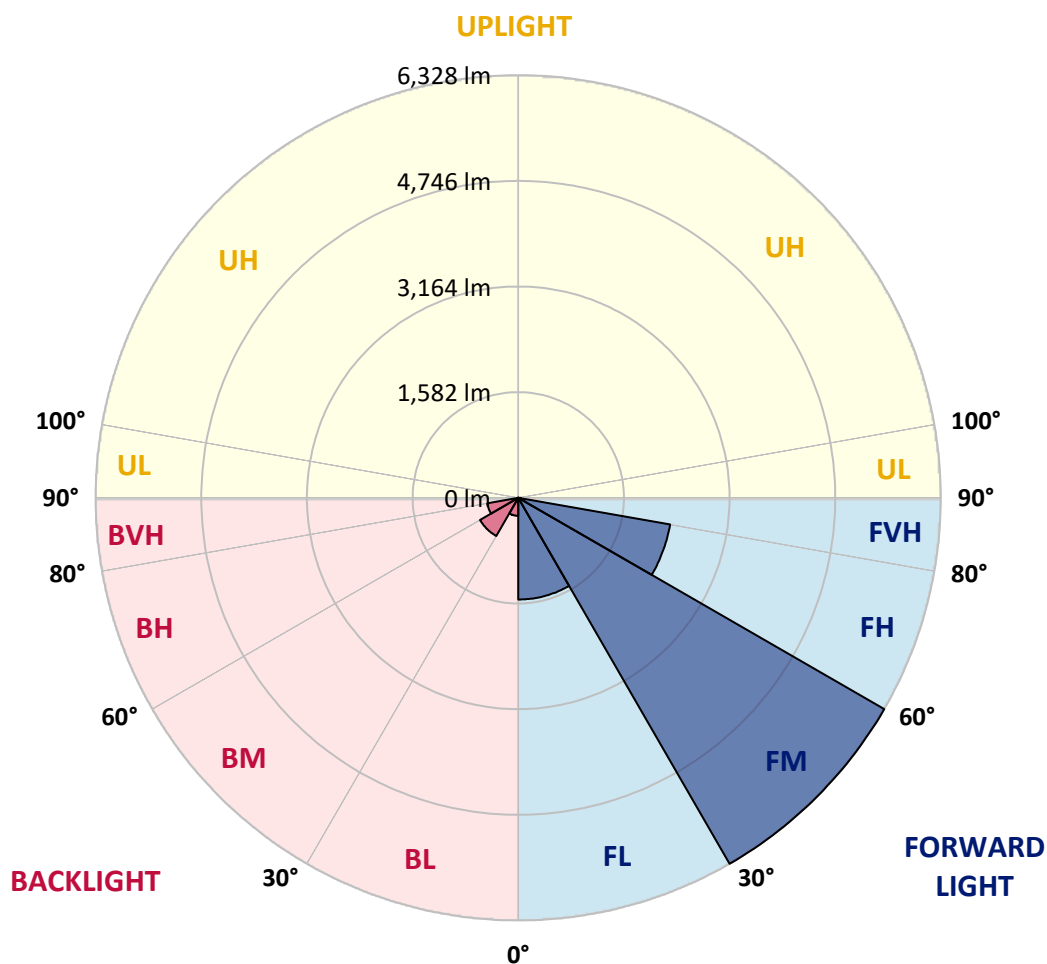
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1522.9	13.1			
FM	(30°-60°)	6328.0	54.5			
FH	(60°-80°)	2308.4	19.9			G2/5000
FVH	(80°-90°)	40.5	0.3			G1/100
BL	(0°-30°)	269.5	2.3	B1/500		
BM	(30°-60°)	660.8	5.7	B1/1000		
BH	(60°-80°)	471.3	4.1	B1/500		G1/500
BVH	(80°-90°)	10.6	0.1			G1/100
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0
2.5°	1902.0	1868.7	1906.8	1902.0	1868.7	1847.2	1780.5	1759.0	1680.4	1623.2	1573.1
5°	2292.9	2259.5	2292.9	2283.4	2235.7	2183.3	2073.6	2002.1	1861.5	1737.6	1625.5
7.5°	2617.1	2617.1	2631.4	2633.8	2576.5	2495.5	2359.7	2252.4	2054.6	1863.9	1685.1
10°	2967.4	2969.8	3000.8	2979.4	2903.1	2793.4	2621.8	2486.0	2247.6	1997.4	1742.3
12.5°	3341.6	3344.0	3353.6	3344.0	3253.5	3112.8	2905.5	2726.7	2452.6	2149.9	1821.0
15°	3715.9	3718.2	3730.2	3713.5	3613.4	3448.9	3212.9	2993.7	2669.5	2321.5	1916.3
17.5°	4066.2	4071.0	4080.5	4059.1	3954.2	3758.8	3518.0	3253.5	2900.7	2505.0	2023.6
20°	4380.8	4385.6	4392.8	4364.2	4259.3	4063.8	3804.0	3527.6	3136.7	2693.3	2140.4
22.5°	4697.9	4702.6	4714.5	4676.4	4559.6	4335.6	4080.5	3794.5	3386.9	2900.7	2276.2
25°	5103.0	5107.8	5117.3	5062.5	4902.8	4640.7	4371.3	4078.1	3658.7	3134.3	2443.1
27.5°	5696.5	5691.8	5691.8	5591.7	5317.6	4976.7	4664.5	4366.5	3951.8	3384.6	2626.6
30°	6430.6	6418.7	6411.6	6275.7	5884.8	5355.7	4964.8	4635.9	4233.1	3649.1	2824.4
32.5°	7088.5	7088.5	7074.2	6931.2	6516.5	5865.8	5284.2	4898.1	4504.8	3916.1	3029.4
35°	7477.0	7493.7	7486.5	7379.3	7076.6	6414.0	5715.6	5212.7	4790.8	4194.9	3274.9
37.5°	7529.4	7562.8	7570.0	7505.6	7345.9	6862.1	6194.7	5553.5	5105.4	4495.3	3513.3
40°	7317.3	7388.8	7388.8	7379.3	7322.1	7074.2	6597.5	5949.2	5429.6	4807.5	3754.0
42.5°	6990.8	7064.7	7055.1	7090.9	7076.6	7024.1	6823.9	6318.6	5753.7	5129.3	3973.3
45°	6564.1	6640.4	6621.3	6685.7	6714.3	6771.5	6800.1	6576.0	6073.1	5479.6	4218.8
47.5°	5880.1	6008.8	6037.4	6151.8	6271.0	6449.7	6585.6	6669.0	6371.1	5856.2	4485.7
50°	4869.5	5050.6	5107.8	5348.5	5675.1	6044.5	6263.8	6554.6	6580.8	6242.4	4774.1
52.5°	3487.0	3696.8	3785.0	4180.6	4852.8	5496.3	5892.0	6301.9	6661.8	6611.8	5086.4
55°	2254.8	2433.5	2519.3	2891.2	3785.0	4795.6	5453.4	5975.4	6616.6	6950.2	5443.9
57.5°	1389.6	1492.1	1549.3	1868.7	2691.0	3897.0	4879.0	5675.1	6478.3	7243.4	5815.7
60°	936.7	996.3	1024.9	1175.1	1828.1	2912.6	4090.1	5360.5	6297.2	7441.2	6154.2
62.5°	622.1	641.2	669.8	762.7	1206.0	2045.0	3141.4	4798.0	6161.3	7453.2	6404.4
65°	481.5	491.0	502.9	543.4	743.6	1430.1	2209.5	3887.5	5958.7	7200.5	6483.1
67.5°	379.0	388.5	402.8	424.3	538.7	970.1	1504.0	2848.3	5544.0	6804.9	6354.4
70°	297.9	305.1	314.6	333.7	419.5	703.1	993.9	1892.5	4707.4	6428.3	5949.2
72.5°	236.0	243.1	252.6	271.7	340.8	514.8	681.7	1179.8	3630.1	5968.3	5169.8
75°	185.9	190.7	197.8	216.9	274.1	400.4	462.4	705.5	2466.9	5126.9	4028.1
77.5°	93.0	114.4	131.1	150.2	200.2	276.5	307.5	390.9	1041.6	2631.4	1921.1
80°	54.8	66.7	71.5	83.4	131.1	166.8	166.8	157.3	328.9	1010.6	784.2
82.5°	31.0	42.9	45.3	47.7	78.7	95.3	76.3	57.2	66.7	338.5	228.8
85°	9.5	14.3	16.7	19.1	26.2	28.6	26.2	23.8	19.1	33.4	21.5
87.5°	0.0	0.0	0.0	0.0	2.4	4.8	4.8	4.8	7.2	7.2	7.2
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°	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0	1535.0
2.5°	1544.5	1513.5	1453.9	1399.1	1346.7	1308.5	1272.8	1239.4	1215.6	1196.5	1194.1
5°	1566.0	1504.0	1389.6	1282.3	1184.6	1103.6	1034.4	979.6	939.1	910.5	908.1
7.5°	1594.6	1499.2	1325.2	1165.5	1020.1	903.3	803.2	729.3	676.9	655.5	638.8
10°	1618.4	1494.4	1260.9	1048.7	858.1	710.3	591.1	517.2	479.1	464.8	457.6
12.5°	1658.9	1499.2	1206.0	941.5	717.4	543.4	452.9	412.3	395.7	383.7	381.4
15°	1718.5	1520.7	1153.6	836.6	574.4	438.6	386.1	359.9	343.2	340.8	338.5
17.5°	1778.1	1539.7	1105.9	729.3	476.7	381.4	345.6	324.2	312.2	309.9	309.9
20°	1847.2	1563.6	1053.5	626.9	407.6	343.2	314.6	297.9	283.6	281.3	281.3
22.5°	1928.2	1596.9	1003.4	536.3	362.3	314.6	290.8	271.7	259.8	257.4	257.4
25°	2037.9	1647.0	962.9	469.5	331.3	290.8	269.3	252.6	243.1	238.3	238.3
27.5°	2159.4	1716.1	934.3	429.0	309.9	271.7	250.3	236.0	226.4	221.7	221.7
30°	2295.3	1792.4	915.3	412.3	297.9	255.0	236.0	221.7	209.7	207.4	207.4
32.5°	2445.5	1880.6	903.3	414.7	295.6	243.1	221.7	207.4	197.8	193.1	193.1
35°	2612.3	1978.3	896.2	429.0	300.3	233.6	209.7	195.4	185.9	181.1	181.1
37.5°	2798.2	2092.7	896.2	443.3	312.2	231.2	197.8	183.5	176.4	171.6	171.6
40°	2972.2	2214.3	905.7	460.0	324.2	231.2	188.3	176.4	166.8	162.1	162.1
42.5°	3108.1	2283.4	912.9	476.7	331.3	228.8	178.8	166.8	159.7	154.9	154.9
45°	3263.0	2357.3	898.6	483.8	331.3	224.0	171.6	159.7	152.5	147.8	147.8
47.5°	3434.6	2447.8	896.2	488.6	324.2	214.5	164.5	152.5	147.8	143.0	143.0
50°	3608.6	2547.9	901.0	486.2	314.6	200.2	154.9	147.8	140.6	135.9	135.9
52.5°	3806.4	2652.8	910.5	481.5	293.2	183.5	147.8	140.6	133.5	128.7	126.3
55°	4025.7	2767.2	929.6	471.9	264.6	166.8	140.6	133.5	123.9	119.2	116.8
57.5°	4278.4	2907.9	951.0	452.9	233.6	152.5	133.5	123.9	109.6	102.5	100.1
60°	4519.1	3067.5	974.8	407.6	202.6	138.2	126.3	112.0	97.7	93.0	90.6
62.5°	4745.5	3224.9	986.8	326.5	171.6	126.3	119.2	102.5	88.2	83.4	81.0
65°	4890.9	3396.5	960.5	221.7	140.6	116.8	109.6	95.3	81.0	73.9	73.9
67.5°	4900.5	3477.5	870.0	145.4	114.4	104.9	100.1	85.8	71.5	66.7	64.4
70°	4659.7	3356.0	665.0	114.4	95.3	90.6	90.6	76.3	62.0	57.2	54.8
72.5°	4106.7	2972.2	424.3	93.0	81.0	76.3	76.3	64.4	54.8	47.7	45.3
75°	3241.5	2292.9	226.4	76.3	66.7	64.4	59.6	52.4	45.3	40.5	38.1
77.5°	1489.7	1010.6	104.9	54.8	50.1	50.1	45.3	38.1	35.8	31.0	31.0
80°	588.7	343.2	52.4	35.8	33.4	33.4	33.4	26.2	26.2	21.5	19.1
82.5°	162.1	71.5	26.2	21.5	21.5	21.5	19.1	16.7	16.7	14.3	14.3
85°	16.7	11.9	11.9	11.9	11.9	9.5	9.5	7.2	4.8	4.8	4.8
87.5°	7.2	7.2	7.2	7.2	7.2	4.8	2.4	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)