

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: P1210936

Luminaire Tested: **ARCH4-120-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210936
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-3)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13757 lumens
Efficiency: N/A
Efficacy: 112.8 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

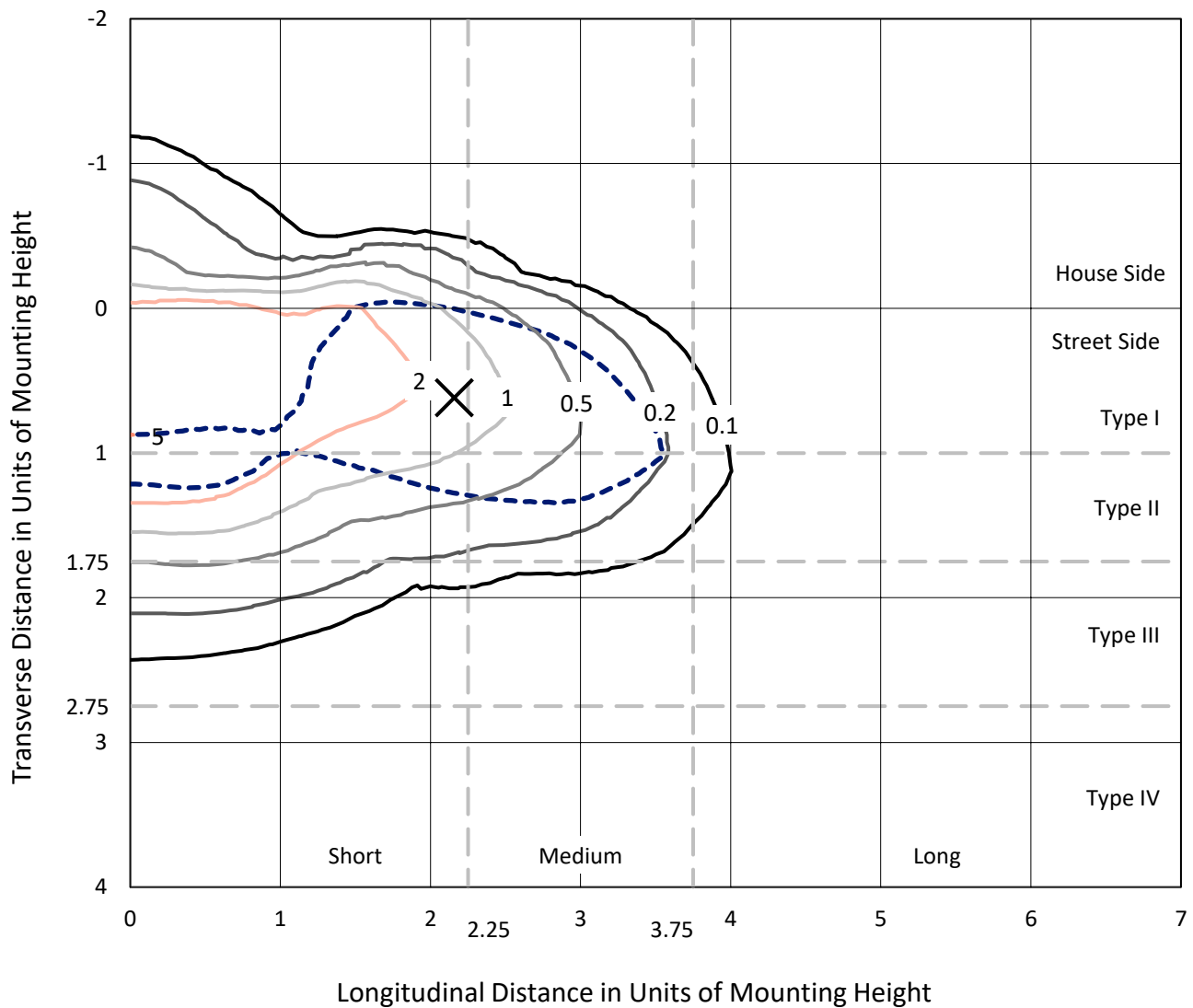
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

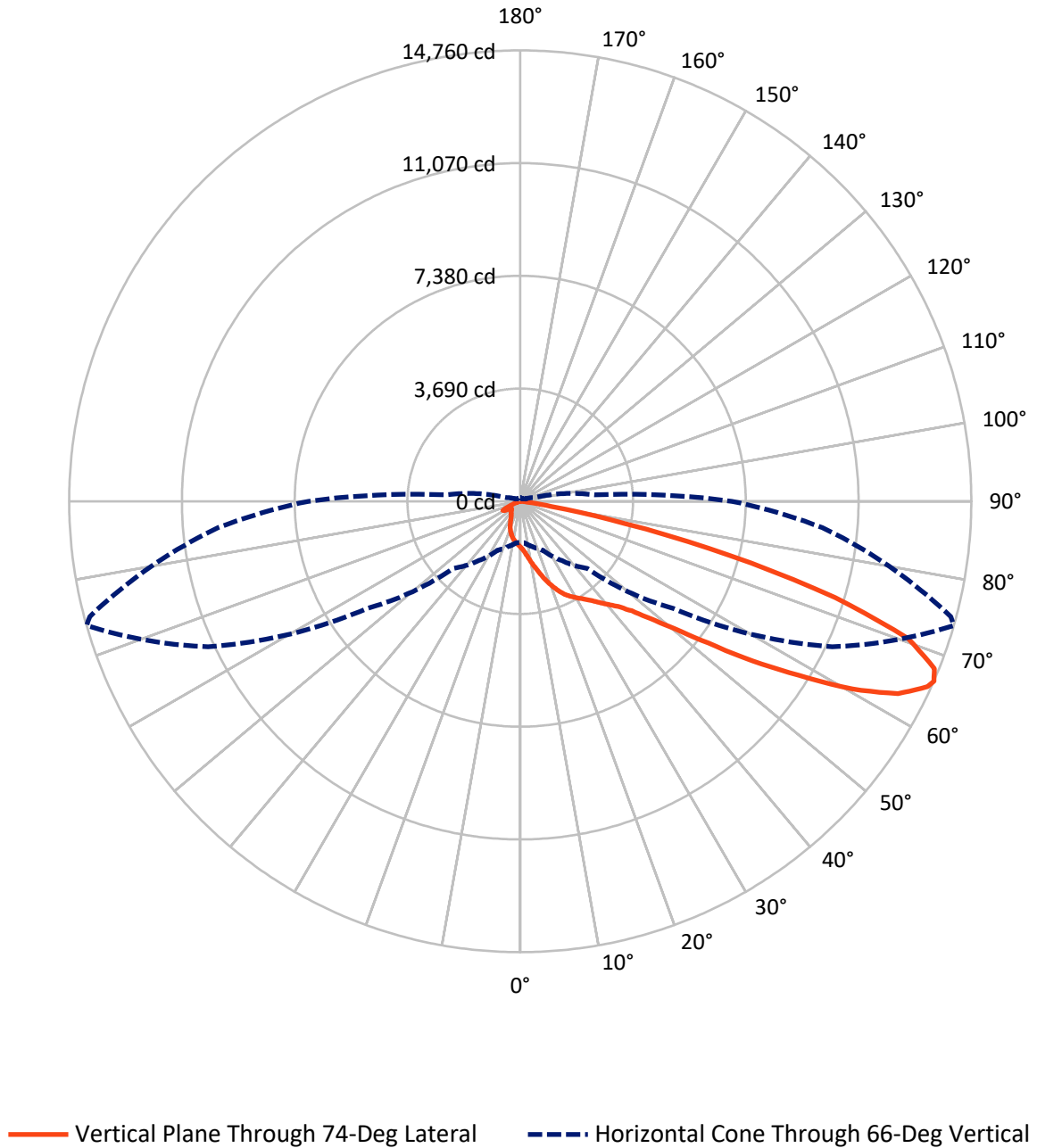
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	1348.6	0.0	1348.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	12408.4	0.0	12408.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	13757.0	0.0	13757.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	1.1
10°-20°	469.9	3.4
20°-30°	896.8	6.5
30°-40°	1571.8	11.4
40°-50°	2695.3	19.6
50°-60°	3505.4	25.5
60°-70°	3173.2	23.1
70°-80°	1224.4	8.9
80°-90°	73.7	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°	13757.0	100.0
0°-180°	13757.0	100.0

Coefficient of Utilization



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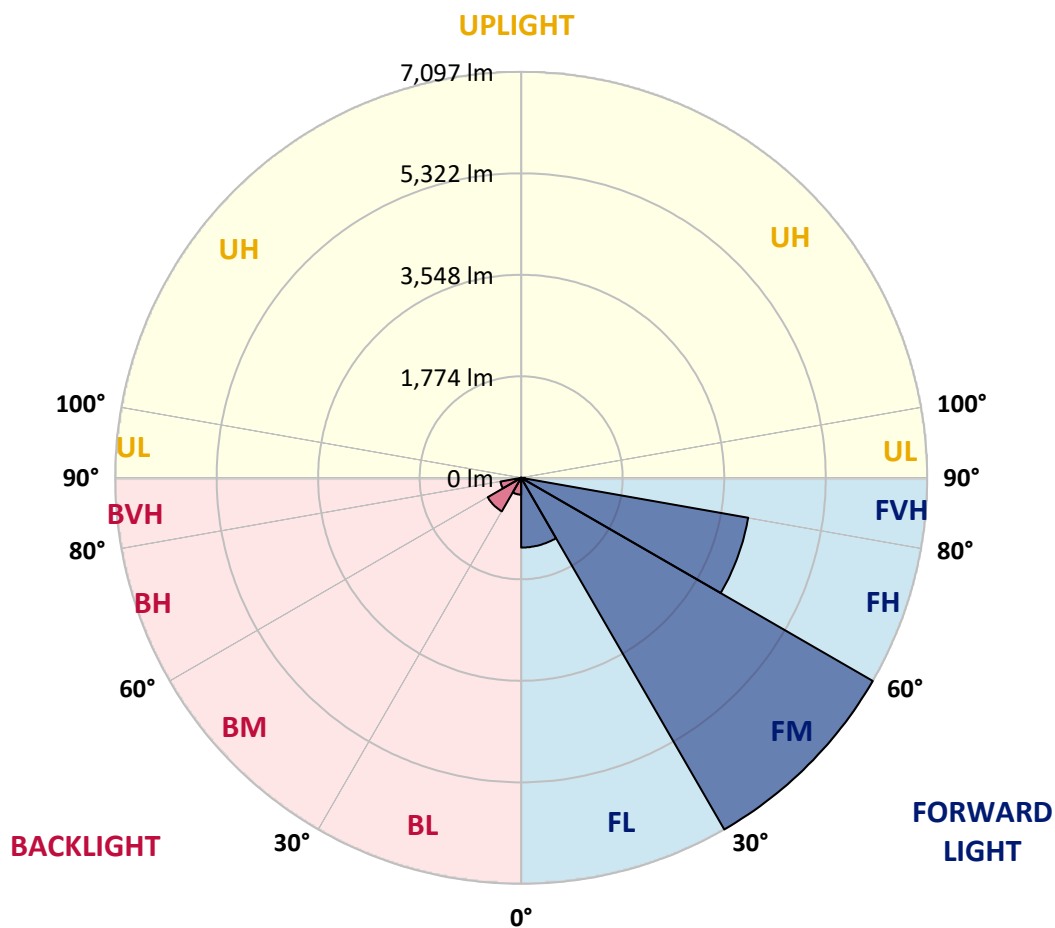
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1219.1	8.9			
FM	(30°-60°)	7096.6	51.6			
FH	(60°-80°)	4028.9	29.3			G2/5000
FVH	(80°-90°)	63.8	0.5			G1/100
BL	(0°-30°)	294.2	2.1	B1/500		
BM	(30°-60°)	675.9	4.9	B1/1000		
BH	(60°-80°)	368.7	2.7	B1/500		G1/500
BVH	(80°-90°)	9.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7
2.5°	1803.0	1788.2	1761.0	1758.6	1736.3	1709.2	1662.2	1612.8	1578.3	1573.3	1531.3
5°	2158.7	2151.3	2124.1	2106.8	2064.8	2000.6	1891.9	1783.3	1691.9	1682.0	1588.1
7.5°	2252.5	2257.5	2262.4	2279.7	2264.9	2235.3	2153.7	2000.6	1857.4	1835.1	1672.1
10°	2267.4	2262.4	2262.4	2284.7	2326.6	2368.6	2358.7	2227.8	2042.6	2015.4	1788.2
12.5°	2427.9	2435.3	2418.0	2408.1	2400.7	2423.0	2497.1	2440.3	2237.7	2215.5	1929.0
15°	2635.4	2632.9	2608.2	2608.2	2586.0	2548.9	2595.9	2637.8	2472.4	2445.2	2089.5
17.5°	2786.0	2795.9	2793.4	2808.3	2800.9	2751.5	2726.8	2813.2	2714.4	2679.8	2272.3
20°	2907.1	2934.2	2944.1	2991.0	3013.3	2978.7	2914.5	2968.8	2946.6	2914.5	2457.5
22.5°	3035.5	3057.7	3075.0	3156.5	3218.3	3210.9	3129.4	3117.0	3171.3	3141.7	2640.3
25°	3163.9	3173.8	3225.7	3324.5	3423.3	3448.0	3364.0	3267.7	3373.9	3346.7	2803.3
27.5°	3304.7	3309.7	3371.4	3492.4	3630.7	3682.6	3615.9	3438.1	3529.5	3529.5	2951.5
30°	3561.6	3611.0	3635.7	3744.4	3865.4	3937.0	3858.0	3618.4	3667.8	3690.0	3107.1
32.5°	4114.8	4122.3	4114.8	4161.8	4186.5	4228.5	4137.1	3820.9	3808.6	3833.3	3260.3
35°	4959.5	4929.9	4850.9	4781.7	4638.5	4559.4	4440.9	4080.3	3981.5	4016.0	3410.9
37.5°	5984.6	5942.6	5762.3	5549.9	5243.6	4927.4	4779.2	4396.4	4201.3	4245.7	3573.9
40°	6962.6	6935.5	6720.6	6458.8	5935.2	5394.2	5080.6	4663.2	4445.8	4463.1	3739.4
42.5°	7767.8	7762.9	7582.6	7308.4	6636.6	5898.1	5436.2	4925.0	4702.7	4729.8	3912.3
45°	8377.9	8331.0	8197.6	8000.0	7315.8	6421.7	5866.0	5322.6	5115.2	5147.3	4171.7
47.5°	8377.9	8385.3	8471.7	8452.0	7790.0	6913.2	6335.3	5824.0	5725.2	5754.9	4598.9
50°	7696.2	7765.3	8150.6	8474.2	8037.0	7296.1	6841.6	6451.4	6552.6	6597.1	5344.9
52.5°	6347.6	6463.7	7133.1	7871.6	7854.3	7488.7	7365.2	7249.1	7703.6	7782.6	6446.4
55°	4823.7	4900.3	5772.1	6742.8	7059.0	7330.6	7822.2	8261.8	9227.5	9210.2	7565.3
57.5°	3603.6	3675.2	4426.0	5502.9	5920.3	6646.5	8056.8	9420.2	10739.1	10805.8	8615.0
60°	2650.2	2704.5	3344.2	4228.5	4831.1	5599.2	7962.9	10561.3	12480.4	12403.8	9541.2
62.5°	1961.1	1990.7	2452.6	3028.1	3828.3	4561.9	7372.6	11341.8	13870.9	13715.3	10057.4
65°	1516.5	1526.4	1766.0	2072.2	2783.6	3546.8	6493.4	11460.3	14639.1	14473.6	10047.5
66°	1351.0	1358.4	1533.8	1770.9	2368.6	3104.7	6108.0	11270.1	14760.1	14584.7	9924.0
67.5°	1133.7	1128.7	1232.5	1388.1	1778.3	2395.8	5423.9	10714.4	14616.8	14527.9	9528.9
70°	839.8	842.2	894.1	931.1	1039.8	1326.3	3917.3	9294.2	13470.8	13465.9	8444.6
72.5°	622.4	629.8	669.3	676.8	649.6	718.7	2257.5	7392.4	10776.1	10778.6	6313.0
75°	466.8	479.2	491.5	496.4	471.7	454.5	1020.1	4974.4	7088.6	7036.7	3573.9
77.5°	355.7	360.6	370.5	363.1	358.1	313.7	424.8	2425.4	3499.8	3188.6	1158.4
80°	259.3	259.3	269.2	259.3	256.9	224.8	232.2	778.0	1027.5	854.6	249.5
82.5°	163.0	160.5	168.0	165.5	160.5	143.3	135.8	217.4	237.1	212.4	121.0
85°	91.4	88.9	86.4	84.0	76.6	64.2	74.1	81.5	108.7	111.1	86.4
87.5°	32.1	32.1	29.6	27.2	22.2	22.2	27.2	27.2	39.5	39.5	44.5
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°	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7	1501.7
2.5°	1511.6	1484.4	1444.9	1393.0	1356.0	1318.9	1279.4	1257.2	1225.1	1217.7	1227.5
5°	1538.7	1489.3	1390.6	1281.9	1188.0	1104.0	1025.0	978.1	931.1	913.9	921.3
7.5°	1595.6	1511.6	1343.6	1168.3	1012.7	886.7	792.8	738.5	696.5	679.2	684.2
10°	1679.5	1551.1	1299.2	1039.8	839.8	706.4	627.4	592.8	568.1	558.2	560.7
12.5°	1780.8	1607.9	1242.4	911.4	691.6	575.5	538.4	531.0	526.1	521.1	523.6
15°	1894.4	1657.3	1175.7	785.4	575.5	511.3	498.9	496.4	494.0	494.0	494.0
17.5°	2013.0	1701.8	1101.6	666.9	501.4	471.7	464.3	464.3	464.3	466.8	466.8
20°	2124.1	1736.3	1015.1	560.7	459.4	434.7	429.8	429.8	432.2	434.7	434.7
22.5°	2232.8	1751.2	913.9	486.6	424.8	402.6	395.2	395.2	395.2	397.7	397.7
25°	2326.6	1751.2	812.6	439.6	395.2	373.0	363.1	360.6	363.1	363.1	363.1
27.5°	2405.7	1743.7	713.8	407.5	365.5	343.3	333.4	331.0	335.9	338.4	338.4
30°	2489.7	1733.9	634.8	377.9	340.8	318.6	308.7	308.7	316.1	326.0	326.0
32.5°	2571.2	1741.3	573.0	353.2	316.1	298.9	289.0	291.4	306.3	321.1	321.1
35°	2657.6	1756.1	536.0	335.9	298.9	281.6	274.2	281.6	296.4	311.2	311.2
37.5°	2744.1	1773.4	513.7	321.1	284.0	266.7	261.8	271.7	289.0	303.8	306.3
40°	2835.4	1788.2	489.0	306.3	274.2	254.4	251.9	261.8	284.0	298.9	301.3
42.5°	2949.1	1817.8	459.4	293.9	264.3	239.6	242.0	249.5	271.7	293.9	296.4
45°	3171.3	1911.7	429.8	281.6	251.9	232.2	227.2	232.2	256.9	281.6	286.5
47.5°	3588.8	2124.1	397.7	269.2	239.6	227.2	207.5	212.4	234.6	261.8	264.3
50°	4389.0	2576.1	380.4	256.9	229.7	209.9	187.7	187.7	205.0	229.7	229.7
52.5°	5636.3	3386.2	390.2	247.0	217.4	192.7	170.4	168.0	177.8	195.1	195.1
55°	6982.4	4275.4	427.3	237.1	202.5	182.8	158.1	145.7	153.1	163.0	163.0
57.5°	8049.4	4722.4	528.6	232.2	185.2	175.4	143.3	126.0	133.4	143.3	143.3
60°	8518.7	4460.6	642.2	237.1	172.9	163.0	128.4	111.1	123.5	133.4	135.8
62.5°	8138.3	3672.7	689.1	224.8	155.6	145.7	126.0	103.7	118.6	126.0	128.4
65°	7315.8	2791.0	538.4	195.1	143.3	126.0	113.6	98.8	111.1	118.6	118.6
66°	6925.6	2432.8	459.4	180.3	138.3	118.6	108.7	98.8	108.7	113.6	116.1
67.5°	6320.5	1919.1	340.8	158.1	128.4	108.7	101.3	93.9	103.7	108.7	108.7
70°	4942.3	1143.6	205.0	123.5	111.1	96.3	91.4	86.4	93.9	96.3	96.3
72.5°	3094.8	543.4	130.9	91.4	93.9	91.4	76.6	81.5	84.0	86.4	86.4
75°	1499.2	214.9	88.9	66.7	76.6	86.4	61.7	71.6	74.1	79.0	76.6
77.5°	417.4	103.7	56.8	49.4	66.7	66.7	46.9	56.8	66.7	84.0	76.6
80°	121.0	66.7	37.0	37.0	46.9	46.9	32.1	39.5	44.5	49.4	51.9
82.5°	84.0	44.5	24.7	27.2	27.2	29.6	19.8	19.8	24.7	24.7	27.2
85°	66.7	19.8	14.8	17.3	12.3	14.8	9.9	9.9	12.3	9.9	9.9
87.5°	27.2	9.9	9.9	9.9	7.4	7.4	4.9	2.5	2.5	2.5	2.5
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)