

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: P1210104

Luminaire Tested: **ARCH2-110-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210104
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: ARCH2-110-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9246 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 109.5
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

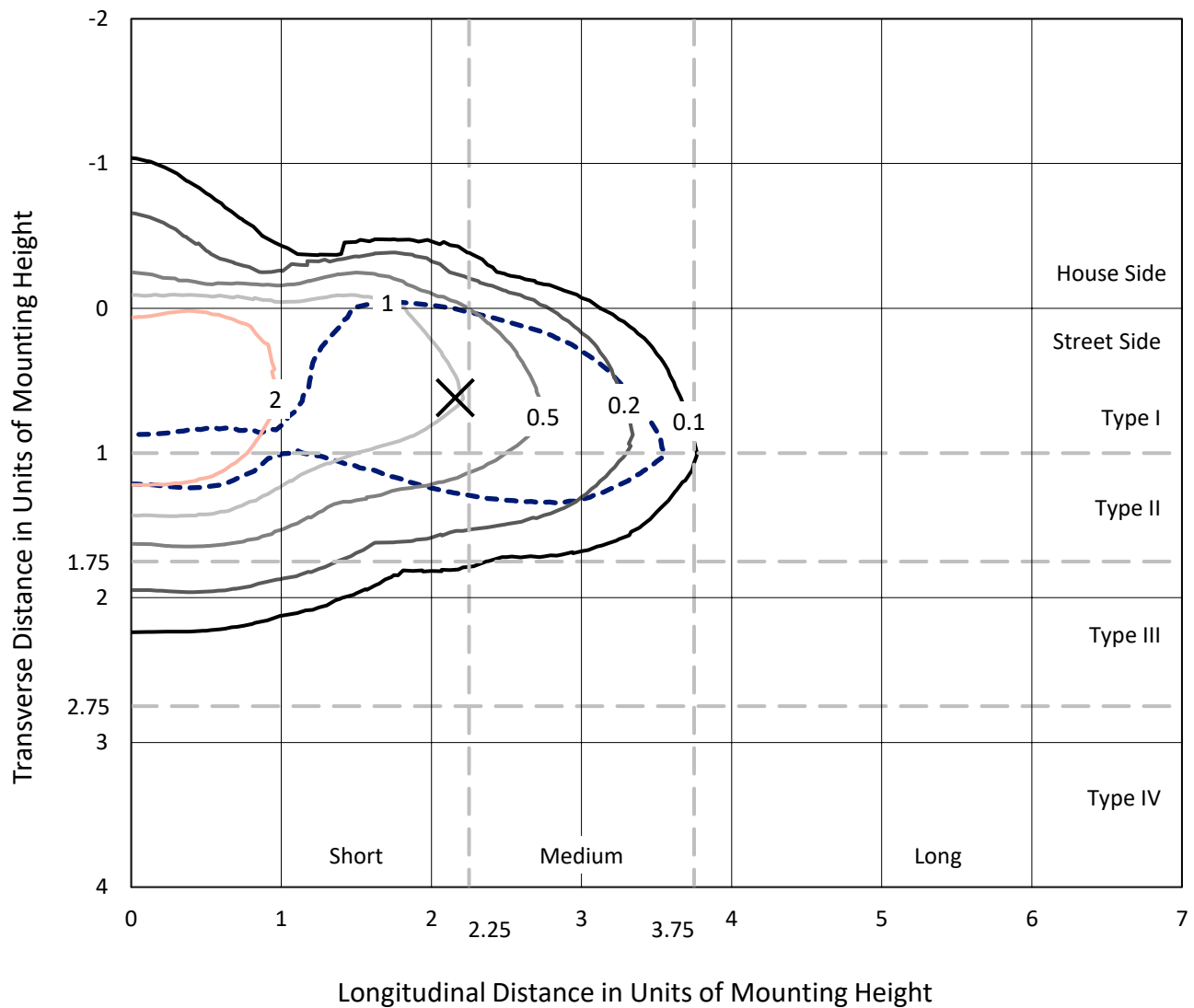


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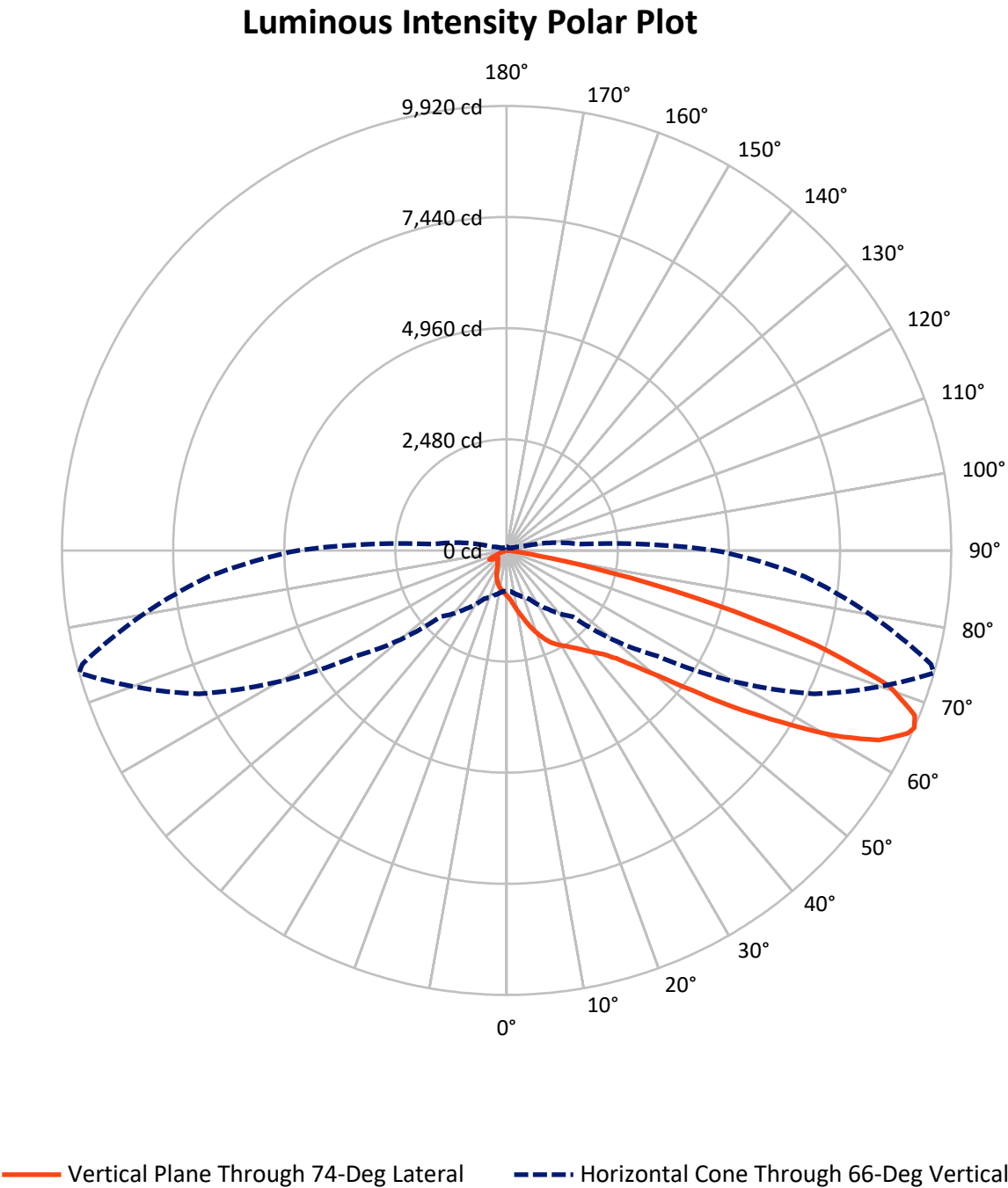
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	906.4	0.0	906.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8339.6	0.0	8339.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	9246.0	0.0	9246.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.1
10°-20°	315.8	3.4
20°-30°	602.7	6.5
30°-40°	1056.4	11.4
40°-50°	1811.5	19.6
50°-60°	2355.9	25.5
60°-70°	2132.7	23.1
70°-80°	822.9	8.9
80°-90°	49.5	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°	9246.0	100.0
0°-180°	9246.0	100.0

Coefficient of Utilization



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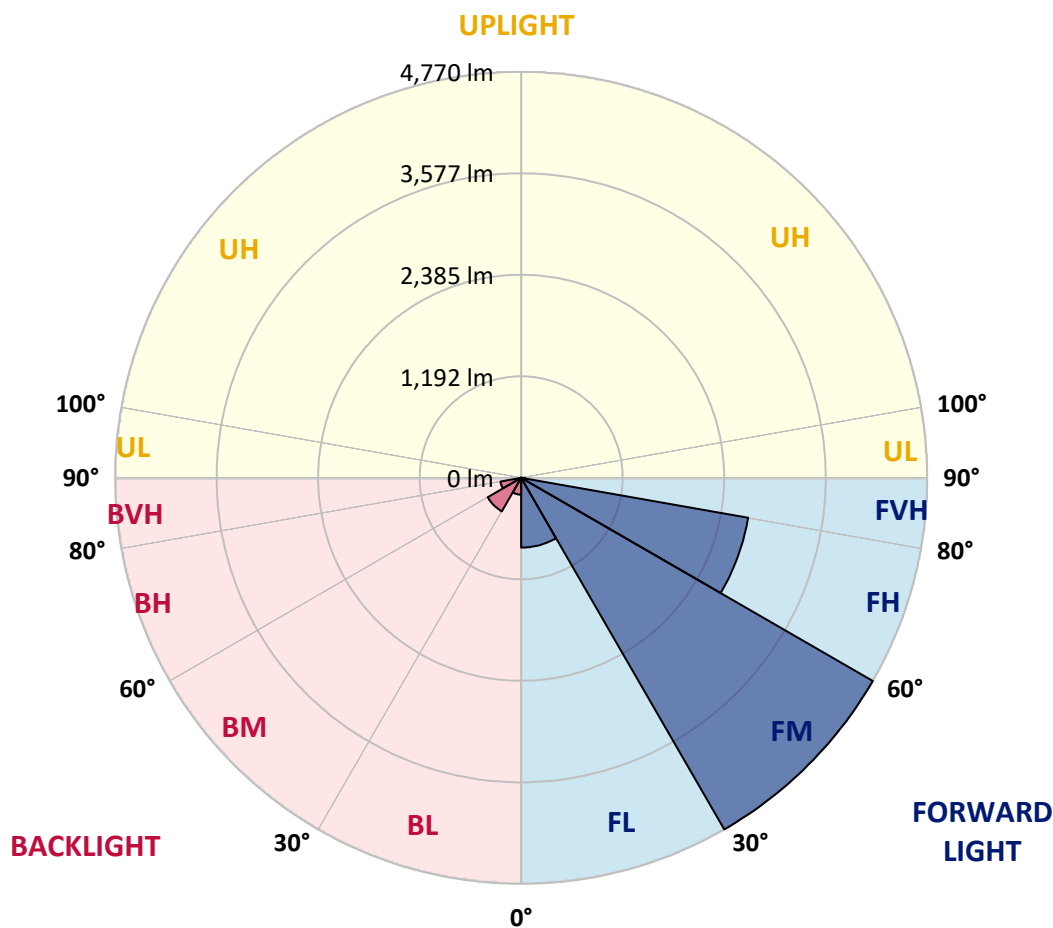
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.3	8.9			
FM	(30°-60°)	4769.5	51.6			
FH	(60°-80°)	2707.8	29.3			G2/5000
FVH	(80°-90°)	42.9	0.5			G1/100
BL	(0°-30°)	197.7	2.1	B1/500		
BM	(30°-60°)	454.3	4.9	B1/1000		
BH	(60°-80°)	247.8	2.7	B1/500		G1/500
BVH	(80°-90°)	6.6	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°	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3
2.5°	1211.8	1201.8	1183.6	1181.9	1167.0	1148.7	1117.2	1084.0	1060.7	1057.4	1029.2
5°	1450.8	1445.9	1427.6	1416.0	1387.8	1344.6	1271.6	1198.5	1137.1	1130.5	1067.4
7.5°	1513.9	1517.2	1520.6	1532.2	1522.2	1502.3	1447.5	1344.6	1248.3	1233.4	1123.8
10°	1523.9	1520.6	1520.6	1535.5	1563.7	1591.9	1585.3	1497.3	1372.8	1354.6	1201.8
12.5°	1631.8	1636.8	1625.1	1618.5	1613.5	1628.5	1678.3	1640.1	1504.0	1489.0	1296.5
15°	1771.2	1769.6	1753.0	1753.0	1738.0	1713.1	1744.7	1772.9	1661.7	1643.4	1404.4
17.5°	1872.5	1879.1	1877.5	1887.4	1882.4	1849.2	1832.6	1890.7	1824.3	1801.1	1527.2
20°	1953.8	1972.1	1978.7	2010.3	2025.2	2002.0	1958.8	1995.3	1980.4	1958.8	1651.7
22.5°	2040.1	2055.1	2066.7	2121.5	2163.0	2158.0	2103.2	2094.9	2131.4	2111.5	1774.5
25°	2126.5	2133.1	2168.0	2234.4	2300.8	2317.4	2260.9	2196.2	2267.6	2249.3	1884.1
27.5°	2221.1	2224.4	2265.9	2347.2	2440.2	2475.1	2430.2	2310.7	2372.1	2372.1	1983.7
30°	2393.7	2426.9	2443.5	2516.6	2597.9	2646.0	2592.9	2431.9	2465.1	2480.0	2088.3
32.5°	2765.6	2770.5	2765.6	2797.1	2813.7	2841.9	2780.5	2568.0	2559.7	2576.3	2191.2
35°	3333.3	3313.4	3260.2	3213.8	3117.5	3064.4	2984.7	2742.3	2675.9	2699.2	2292.5
37.5°	4022.2	3994.0	3872.8	3730.0	3524.2	3311.7	3212.1	2954.8	2823.7	2853.5	2402.0
40°	4679.5	4661.3	4516.9	4340.9	3989.0	3625.4	3414.6	3134.1	2988.0	2999.6	2513.2
42.5°	5220.7	5217.4	5096.2	4911.9	4460.4	3964.1	3653.7	3310.0	3160.6	3178.9	2629.4
45°	5630.7	5599.2	5509.5	5376.7	4916.9	4316.0	3942.5	3577.3	3437.9	3459.4	2803.7
47.5°	5630.7	5635.7	5693.8	5680.5	5235.6	4646.3	4257.9	3914.3	3847.9	3867.8	3090.9
50°	5172.6	5219.0	5478.0	5695.5	5401.6	4903.6	4598.2	4335.9	4404.0	4433.9	3592.2
52.5°	4266.2	4344.2	4794.1	5290.4	5278.8	5033.1	4950.1	4872.1	5177.5	5230.7	4332.6
55°	3242.0	3293.4	3879.4	4531.8	4744.3	4926.9	5257.2	5552.7	6201.8	6190.1	5084.6
57.5°	2421.9	2470.1	2974.7	3698.5	3979.0	4467.1	5414.9	6331.2	7217.7	7262.5	5790.1
60°	1781.2	1817.7	2247.6	2841.9	3247.0	3763.2	5351.8	7098.2	8388.0	8336.5	6412.6
62.5°	1318.0	1338.0	1648.4	2035.2	2573.0	3066.0	4955.1	7622.7	9322.6	9218.0	6759.5
65°	1019.2	1025.9	1186.9	1392.7	1870.8	2383.8	4364.1	7702.4	9838.8	9727.6	6752.9
66°	908.0	913.0	1030.9	1190.2	1591.9	2086.6	4105.2	7574.6	9920.2	9802.3	6669.9
67.5°	761.9	758.6	828.3	932.9	1195.2	1610.2	3645.4	7201.1	9823.9	9764.1	6404.3
70°	564.4	566.1	600.9	625.8	698.9	891.4	2632.8	6246.6	9053.6	9050.3	5675.5
72.5°	418.3	423.3	449.9	454.8	436.6	483.1	1517.2	4968.4	7242.6	7244.2	4243.0
75°	313.7	322.0	330.3	333.7	317.1	305.4	685.6	3343.2	4764.2	4729.3	2402.0
77.5°	239.0	242.4	249.0	244.0	240.7	210.8	285.5	1630.1	2352.2	2143.1	778.5
80°	174.3	174.3	180.9	174.3	172.6	151.1	156.0	522.9	690.6	574.4	167.7
82.5°	109.6	107.9	112.9	111.2	107.9	96.3	91.3	146.1	159.4	142.8	81.3
85°	61.4	59.8	58.1	56.4	51.5	43.2	49.8	54.8	73.0	74.7	58.1
87.5°	21.6	21.6	19.9	18.3	14.9	14.9	18.3	18.3	26.6	26.6	29.9
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°	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3	1009.3
2.5°	1015.9	997.7	971.1	936.2	911.3	886.4	859.9	844.9	823.4	818.4	825.0
5°	1034.2	1001.0	934.6	861.5	798.5	742.0	688.9	657.4	625.8	614.2	619.2
7.5°	1072.4	1015.9	903.0	785.2	680.6	595.9	532.9	496.3	468.1	456.5	459.8
10°	1128.8	1042.5	873.2	698.9	564.4	474.8	421.6	398.4	381.8	375.2	376.8
12.5°	1196.9	1080.7	835.0	612.5	464.8	386.8	361.9	356.9	353.6	350.3	351.9
15°	1273.2	1113.9	790.2	527.9	386.8	343.6	335.3	333.7	332.0	332.0	332.0
17.5°	1352.9	1143.7	740.4	448.2	337.0	317.1	312.1	312.1	312.1	313.7	313.7
20°	1427.6	1167.0	682.3	376.8	308.8	292.2	288.8	288.8	290.5	292.2	292.2
22.5°	1500.6	1176.9	614.2	327.0	285.5	270.6	265.6	265.6	265.6	267.3	267.3
25°	1563.7	1176.9	546.1	295.5	265.6	250.7	244.0	242.4	244.0	244.0	244.0
27.5°	1616.8	1172.0	479.7	273.9	245.7	230.7	224.1	222.4	225.8	227.4	227.4
30°	1673.3	1165.3	426.6	254.0	229.1	214.1	207.5	207.5	212.5	219.1	219.1
32.5°	1728.1	1170.3	385.1	237.4	212.5	200.9	194.2	195.9	205.8	215.8	215.8
35°	1786.2	1180.3	360.2	225.8	200.9	189.2	184.3	189.2	199.2	209.2	209.2
37.5°	1844.3	1191.9	345.3	215.8	190.9	179.3	176.0	182.6	194.2	204.2	205.8
40°	1905.7	1201.8	328.7	205.8	184.3	171.0	169.3	176.0	190.9	200.9	202.5
42.5°	1982.0	1221.8	308.8	197.5	177.6	161.0	162.7	167.7	182.6	197.5	199.2
45°	2131.4	1284.8	288.8	189.2	169.3	156.0	152.7	156.0	172.6	189.2	192.6
47.5°	2412.0	1427.6	267.3	180.9	161.0	152.7	139.4	142.8	157.7	176.0	177.6
50°	2949.8	1731.4	255.6	172.6	154.4	141.1	126.2	126.2	137.8	154.4	154.4
52.5°	3788.1	2275.9	262.3	166.0	146.1	129.5	114.5	112.9	119.5	131.1	131.1
55°	4692.8	2873.5	287.2	159.4	136.1	122.8	106.2	97.9	102.9	109.6	109.6
57.5°	5409.9	3173.9	355.2	156.0	124.5	117.9	96.3	84.7	89.6	96.3	96.3
60°	5725.3	2998.0	431.6	159.4	116.2	109.6	86.3	74.7	83.0	89.6	91.3
62.5°	5469.7	2468.4	463.1	151.1	104.6	97.9	84.7	69.7	79.7	84.7	86.3
65°	4916.9	1875.8	361.9	131.1	96.3	84.7	76.4	66.4	74.7	79.7	79.7
66°	4654.6	1635.1	308.8	121.2	93.0	79.7	73.0	66.4	73.0	76.4	78.0
67.5°	4247.9	1289.8	229.1	106.2	86.3	73.0	68.1	63.1	69.7	73.0	73.0
70°	3321.7	768.6	137.8	83.0	74.7	64.7	61.4	58.1	63.1	64.7	64.7
72.5°	2080.0	365.2	88.0	61.4	63.1	61.4	51.5	54.8	56.4	58.1	58.1
75°	1007.6	144.4	59.8	44.8	51.5	58.1	41.5	48.1	49.8	53.1	51.5
77.5°	280.5	69.7	38.2	33.2	44.8	44.8	31.5	38.2	44.8	56.4	51.5
80°	81.3	44.8	24.9	24.9	31.5	31.5	21.6	26.6	29.9	33.2	34.9
82.5°	56.4	29.9	16.6	18.3	18.3	19.9	13.3	13.3	16.6	16.6	18.3
85°	44.8	13.3	10.0	11.6	8.3	10.0	6.6	6.6	8.3	6.6	6.6
87.5°	18.3	6.6	6.6	6.6	5.0	5.0	3.3	1.7	1.7	1.7	1.7
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)