

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: P1210076

Luminaire Tested: **ARCH2-100-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210076
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: ARCH2-100-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 760mA 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: 9248 lumens
Efficiency: N/A
Efficacy: 89.5 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): 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

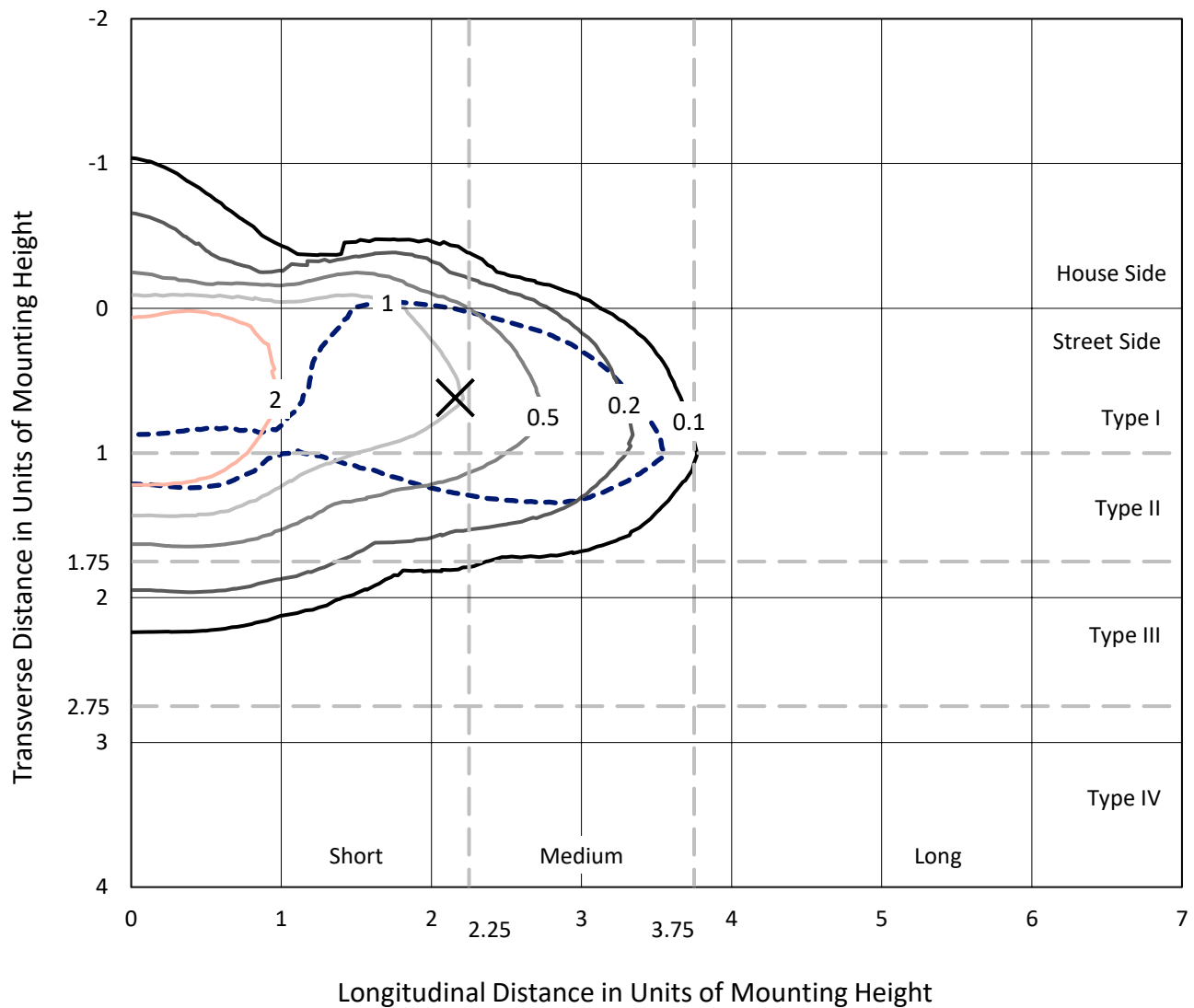


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Iso-Footcandle Lines of Horizontal Illumination

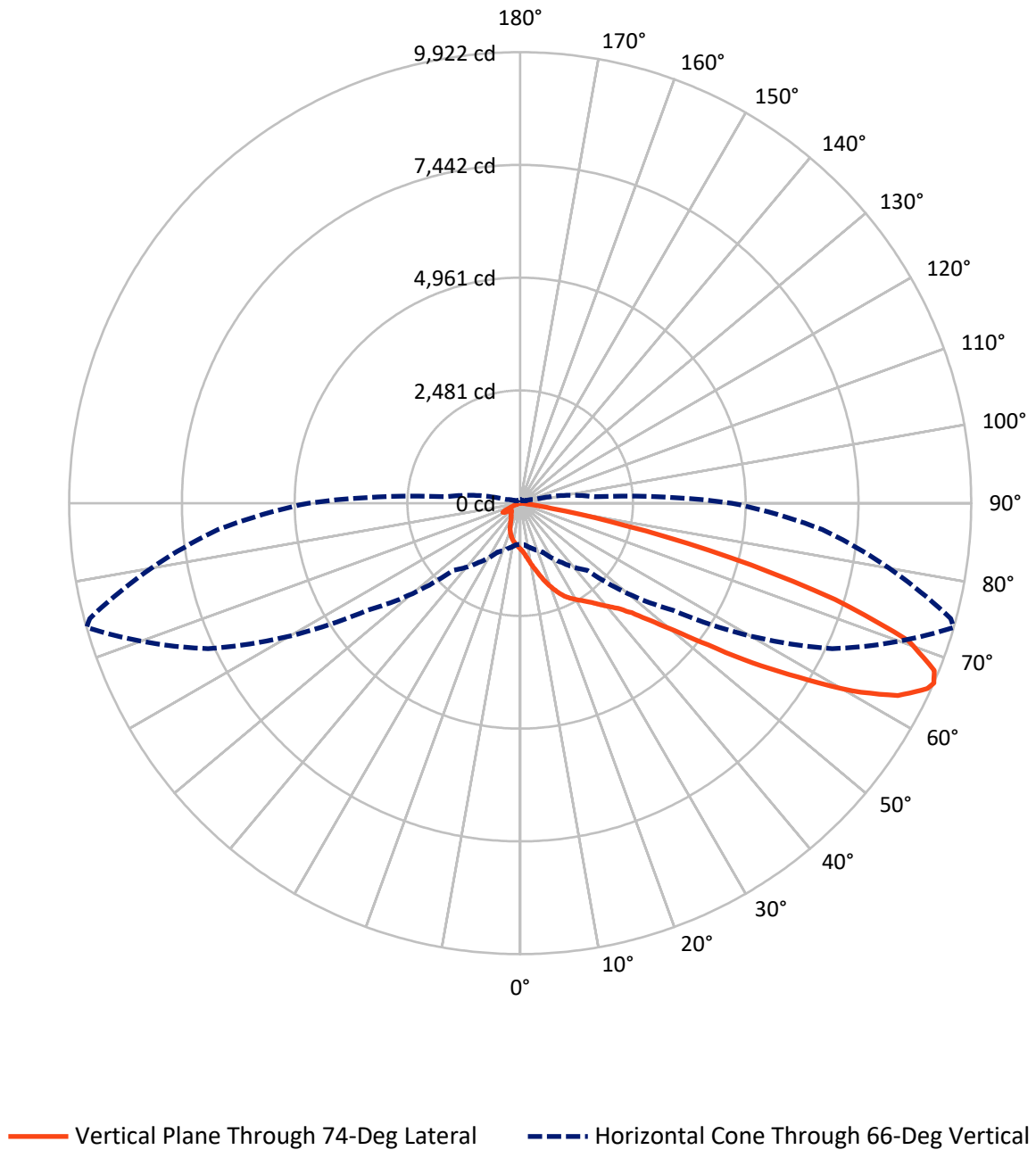
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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	906.6	0.0	906.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8341.4	0.0	8341.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	9248.0	0.0	9248.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	1.1
10°-20°	315.9	3.4
20°-30°	602.8	6.5
30°-40°	1056.6	11.4
40°-50°	1811.9	19.6
50°-60°	2356.5	25.5
60°-70°	2133.2	23.1
70°-80°	823.1	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°	9248.0	100.0
0°-180°	9248.0	100.0

Coefficient of Utilization



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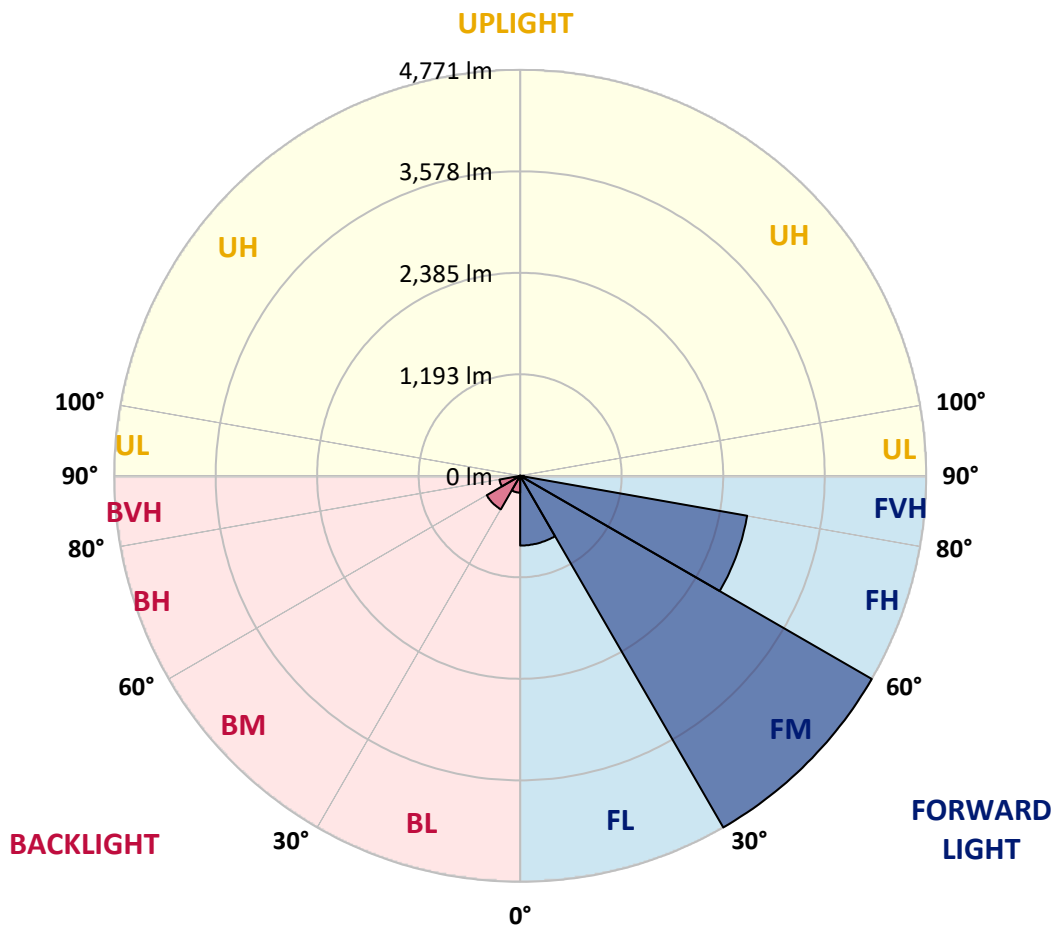
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	819.5	8.9			
FM	(30°-60°)	4770.6	51.6			
FH	(60°-80°)	2708.4	29.3			G2/5000
FVH	(80°-90°)	42.9	0.5			G1/100
BL	(0°-30°)	197.8	2.1	B1/500		
BM	(30°-60°)	454.4	4.9	B1/1000		
BH	(60°-80°)	247.9	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°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1212.1	1202.1	1183.8	1182.2	1167.2	1149.0	1117.4	1084.2	1061.0	1057.6	1029.4
5°	1451.2	1446.2	1427.9	1416.3	1388.1	1344.9	1271.8	1198.8	1137.3	1130.7	1067.6
7.5°	1514.2	1517.6	1520.9	1532.5	1522.6	1502.6	1447.8	1344.9	1248.6	1233.6	1124.1
10°	1524.2	1520.9	1520.9	1535.8	1564.1	1592.3	1585.6	1497.6	1373.1	1354.9	1202.1
12.5°	1632.1	1637.1	1625.5	1618.9	1613.9	1628.8	1678.6	1640.4	1504.3	1489.3	1296.7
15°	1771.6	1769.9	1753.3	1753.3	1738.4	1713.5	1745.0	1773.3	1662.0	1643.8	1404.7
17.5°	1872.9	1879.5	1877.9	1887.8	1882.8	1849.6	1833.0	1891.2	1824.7	1801.5	1527.5
20°	1954.2	1972.5	1979.1	2010.7	2025.6	2002.4	1959.2	1995.8	1980.8	1959.2	1652.1
22.5°	2040.6	2055.5	2067.1	2121.9	2163.4	2158.5	2103.7	2095.4	2131.9	2112.0	1774.9
25°	2126.9	2133.6	2168.4	2234.8	2301.3	2317.9	2261.4	2196.7	2268.1	2249.8	1884.5
27.5°	2221.6	2224.9	2266.4	2347.7	2440.7	2475.6	2430.8	2311.2	2372.7	2372.7	1984.1
30°	2394.2	2427.4	2444.1	2517.1	2598.5	2646.6	2593.5	2432.4	2465.6	2480.6	2088.7
32.5°	2766.2	2771.1	2766.2	2797.7	2814.3	2842.5	2781.1	2568.6	2560.3	2576.9	2191.7
35°	3334.0	3314.1	3260.9	3214.5	3118.2	3065.0	2985.3	2742.9	2676.5	2699.7	2293.0
37.5°	4023.1	3994.8	3873.6	3730.8	3524.9	3312.4	3212.8	2955.4	2824.3	2854.2	2402.5
40°	4680.6	4662.3	4517.8	4341.8	3989.8	3626.2	3415.4	3134.8	2988.6	3000.3	2513.8
42.5°	5221.8	5218.5	5097.3	4913.0	4461.4	3964.9	3654.5	3310.8	3161.3	3179.6	2630.0
45°	5631.9	5600.4	5510.7	5377.9	4918.0	4316.9	3943.4	3578.1	3438.6	3460.2	2804.3
47.5°	5631.9	5636.9	5695.0	5681.8	5236.8	4647.3	4258.8	3915.1	3848.7	3868.6	3091.6
50°	5173.7	5220.2	5479.2	5696.7	5402.8	4904.7	4599.2	4336.9	4404.9	4434.8	3593.0
52.5°	4267.1	4345.2	4795.1	5291.6	5279.9	5034.2	4951.2	4873.2	5178.7	5231.8	4333.5
55°	3242.7	3294.2	3880.3	4532.8	4745.3	4927.9	5258.4	5553.9	6203.1	6191.5	5085.7
57.5°	2422.5	2470.6	2975.4	3699.3	3979.9	4468.0	5416.1	6332.6	7219.2	7264.1	5791.3
60°	1781.6	1818.1	2248.1	2842.5	3247.7	3764.0	5353.0	7099.7	8389.8	8338.3	6414.0
62.5°	1318.3	1338.3	1648.7	2035.6	2573.6	3066.7	4956.2	7624.4	9324.6	9220.0	6761.0
65°	1019.5	1026.1	1187.2	1393.0	1871.2	2384.3	4365.1	7704.1	9841.0	9729.7	6754.3
66°	908.2	913.2	1031.1	1190.5	1592.3	2087.1	4106.1	7576.2	9922.3	9804.4	6671.3
67.5°	762.1	758.8	828.5	933.1	1195.5	1610.5	3646.2	7202.6	9826.0	9766.2	6405.7
70°	564.5	566.2	601.1	626.0	699.0	891.6	2633.3	6247.9	9055.6	9052.3	5676.8
72.5°	418.4	423.4	450.0	454.9	436.7	483.2	1517.6	4969.5	7244.2	7245.8	4243.9
75°	313.8	322.1	330.4	333.7	317.1	305.5	685.7	3344.0	4765.2	4730.4	2402.5
77.5°	239.1	242.4	249.1	244.1	240.8	210.9	285.6	1630.5	2352.7	2143.5	778.7
80°	174.3	174.3	181.0	174.3	172.7	151.1	156.1	523.0	690.7	574.5	167.7
82.5°	109.6	107.9	112.9	111.2	107.9	96.3	91.3	146.1	159.4	142.8	81.4
85°	61.4	59.8	58.1	56.5	51.5	43.2	49.8	54.8	73.1	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°	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5	1009.5
2.5°	1016.1	997.9	971.3	936.4	911.5	886.6	860.1	845.1	823.5	818.6	825.2
5°	1034.4	1001.2	934.8	861.7	798.6	742.2	689.0	657.5	626.0	614.3	619.3
7.5°	1072.6	1016.1	903.2	785.4	680.7	596.1	533.0	496.4	468.2	456.6	459.9
10°	1129.0	1042.7	873.3	699.0	564.5	474.9	421.7	398.5	381.9	375.2	376.9
12.5°	1197.1	1080.9	835.2	612.7	464.9	386.9	362.0	357.0	353.7	350.3	352.0
15°	1273.5	1114.1	790.3	528.0	386.9	343.7	335.4	333.7	332.1	332.1	332.1
17.5°	1353.2	1144.0	740.5	448.3	337.1	317.1	312.1	312.1	312.1	313.8	313.8
20°	1427.9	1167.2	682.4	376.9	308.8	292.2	288.9	288.9	290.6	292.2	292.2
22.5°	1501.0	1177.2	614.3	327.1	285.6	270.6	265.7	265.7	265.7	267.3	267.3
25°	1564.1	1177.2	546.3	295.5	265.7	250.7	244.1	242.4	244.1	244.1	244.1
27.5°	1617.2	1172.2	479.8	274.0	245.7	230.8	224.1	222.5	225.8	227.5	227.5
30°	1673.6	1165.6	426.7	254.0	229.1	214.2	207.5	207.5	212.5	219.2	219.2
32.5°	1728.4	1170.6	385.2	237.4	212.5	200.9	194.3	195.9	205.9	215.8	215.8
35°	1786.5	1180.5	360.3	225.8	200.9	189.3	184.3	189.3	199.2	209.2	209.2
37.5°	1844.7	1192.1	345.4	215.8	190.9	179.3	176.0	182.6	194.3	204.2	205.9
40°	1906.1	1202.1	328.8	205.9	184.3	171.0	169.4	176.0	190.9	200.9	202.6
42.5°	1982.5	1222.0	308.8	197.6	177.7	161.1	162.7	167.7	182.6	197.6	199.2
45°	2131.9	1285.1	288.9	189.3	169.4	156.1	152.8	156.1	172.7	189.3	192.6
47.5°	2412.5	1427.9	267.3	181.0	161.1	152.8	139.5	142.8	157.7	176.0	177.7
50°	2950.5	1731.8	255.7	172.7	154.4	141.1	126.2	126.2	137.8	154.4	154.4
52.5°	3788.9	2276.4	262.3	166.0	146.1	129.5	114.6	112.9	119.5	131.2	131.2
55°	4693.8	2874.1	287.2	159.4	136.1	122.9	106.3	98.0	102.9	109.6	109.6
57.5°	5411.1	3174.6	355.3	156.1	124.5	117.9	96.3	84.7	89.7	96.3	96.3
60°	5726.6	2998.6	431.7	159.4	116.2	109.6	86.3	74.7	83.0	89.7	91.3
62.5°	5470.9	2469.0	463.2	151.1	104.6	98.0	84.7	69.7	79.7	84.7	86.3
65°	4918.0	1876.2	362.0	131.2	96.3	84.7	76.4	66.4	74.7	79.7	79.7
66°	4655.7	1635.5	308.8	121.2	93.0	79.7	73.1	66.4	73.1	76.4	78.0
67.5°	4248.9	1290.1	229.1	106.3	86.3	73.1	68.1	63.1	69.7	73.1	73.1
70°	3322.4	768.7	137.8	83.0	74.7	64.8	61.4	58.1	63.1	64.8	64.8
72.5°	2080.4	365.3	88.0	61.4	63.1	61.4	51.5	54.8	56.5	58.1	58.1
75°	1007.8	144.5	59.8	44.8	51.5	58.1	41.5	48.2	49.8	53.1	51.5
77.5°	280.6	69.7	38.2	33.2	44.8	44.8	31.5	38.2	44.8	56.5	51.5
80°	81.4	44.8	24.9	24.9	31.5	31.5	21.6	26.6	29.9	33.2	34.9
82.5°	56.5	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)