

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: P1210904

Luminaire Tested: **ARCH4-110-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210904
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: ARCH4-110-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 920mA 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: 12793 lumens
Efficiency: N/A
Efficacy: 113.6 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



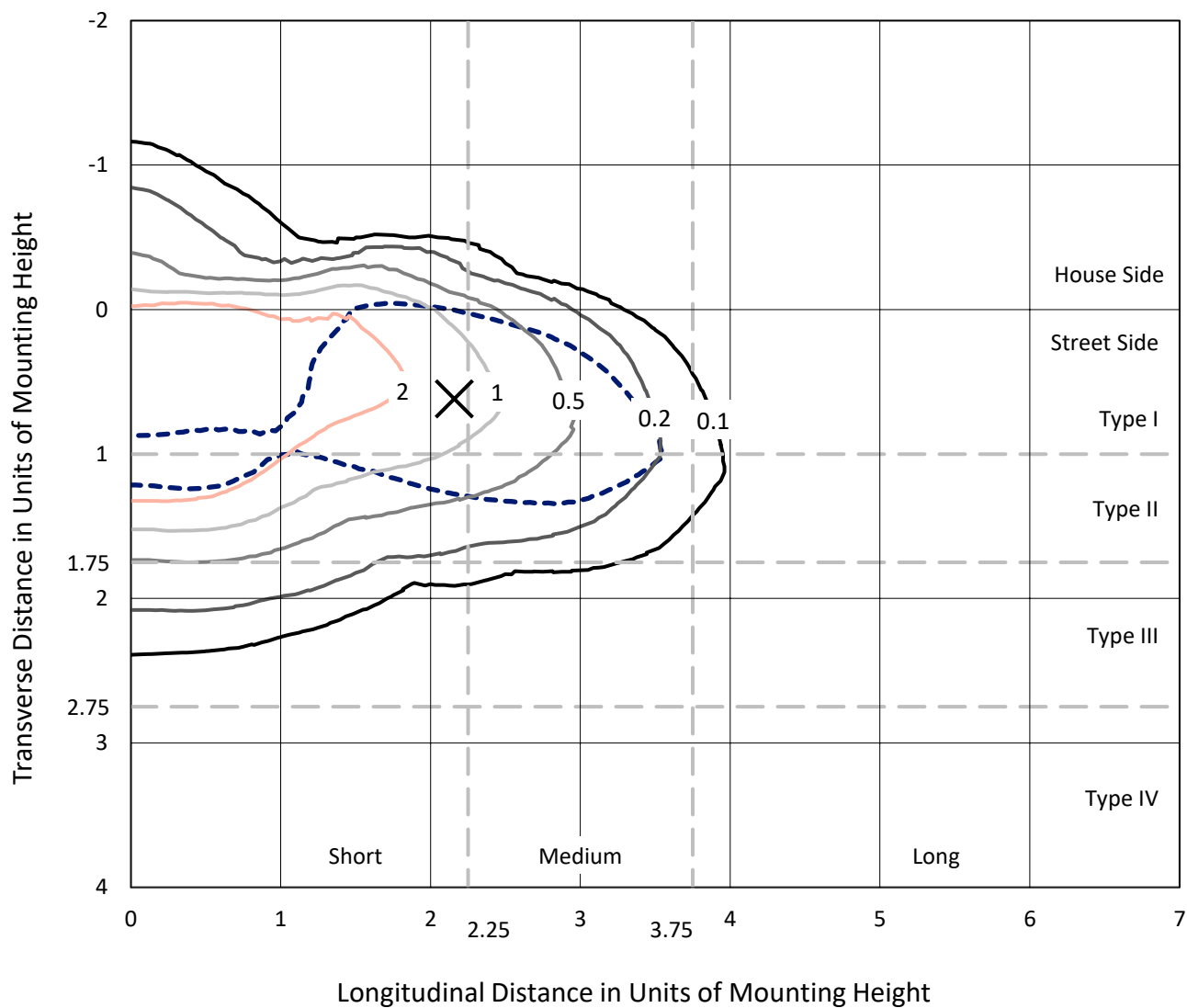
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Iso-Footcandle Lines of Horizontal Illumination

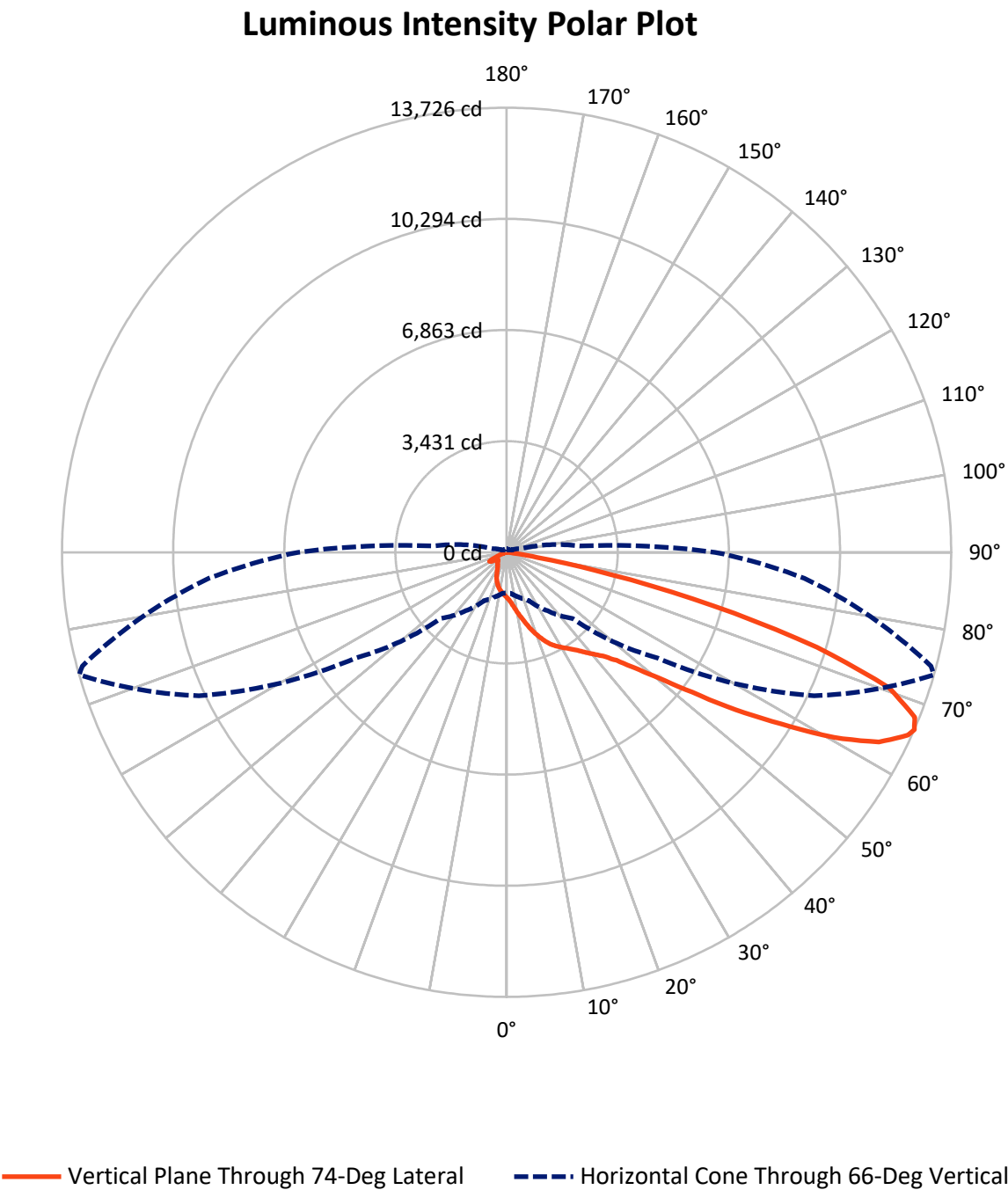
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1254.1	0.0	1254.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	11538.9	0.0	11538.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	12793.0	0.0	12793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	1.1
10°-20°	437.0	3.4
20°-30°	833.9	6.5
30°-40°	1461.7	11.4
40°-50°	2506.4	19.6
50°-60°	3259.7	25.5
60°-70°	2950.9	23.1
70°-80°	1138.6	8.9
80°-90°	68.5	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°	12793.0	100.0
0°-180°	12793.0	100.0

Coefficient of Utilization



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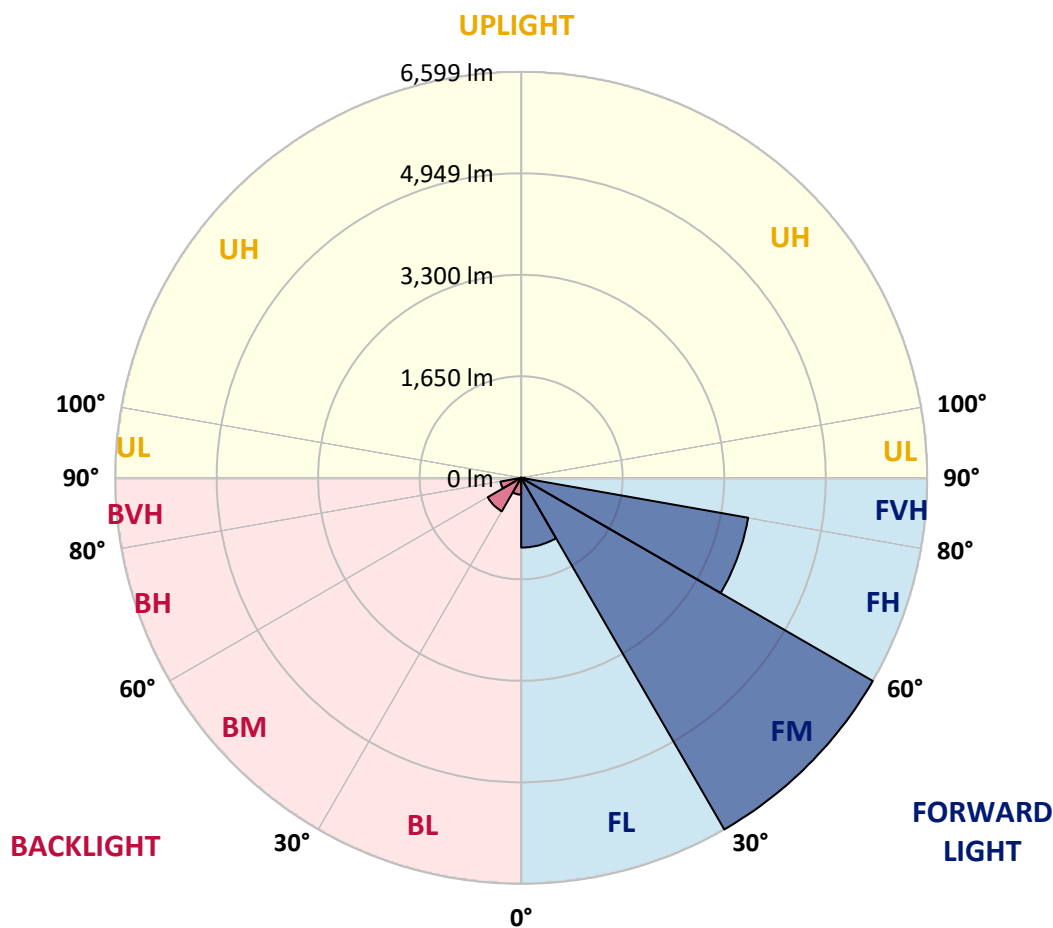
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1133.6	8.9			
FM	(30°-60°)	6599.3	51.6			
FH	(60°-80°)	3746.6	29.3			G2/5000
FVH	(80°-90°)	59.3	0.5			G1/100
BL	(0°-30°)	273.6	2.1	B1/500		
BM	(30°-60°)	628.5	4.9	B1/1000		
BH	(60°-80°)	342.9	2.7	B1/500		G1/500
BVH	(80°-90°)	9.2	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1676.7	1662.9	1637.6	1635.3	1614.7	1589.4	1545.8	1499.8	1467.7	1463.1	1424.0
5°	2007.4	2000.5	1975.3	1959.2	1920.1	1860.4	1759.4	1658.3	1573.3	1564.1	1476.9
7.5°	2094.7	2099.3	2103.9	2120.0	2106.2	2078.6	2002.8	1860.4	1727.2	1706.5	1554.9
10°	2108.5	2103.9	2103.9	2124.6	2163.6	2202.7	2193.5	2071.7	1899.5	1874.2	1662.9
12.5°	2257.8	2264.7	2248.6	2239.4	2232.5	2253.2	2322.1	2269.3	2080.9	2060.2	1793.8
15°	2450.7	2448.4	2425.4	2425.4	2404.8	2370.3	2414.0	2453.0	2299.1	2273.9	1943.1
17.5°	2590.8	2600.0	2597.7	2611.5	2604.6	2558.7	2535.7	2616.1	2524.2	2492.0	2113.1
20°	2703.4	2728.6	2737.8	2781.4	2802.1	2770.0	2710.2	2760.8	2740.1	2710.2	2285.3
22.5°	2822.8	2843.5	2859.5	2935.3	2992.8	2985.9	2910.1	2898.6	2949.1	2921.6	2455.3
25°	2942.2	2951.4	2999.6	3091.5	3183.4	3206.4	3128.3	3038.7	3137.5	3112.2	2606.9
27.5°	3073.1	3077.7	3135.2	3247.7	3376.3	3424.6	3362.5	3197.2	3282.2	3282.2	2744.7
30°	3312.0	3358.0	3380.9	3482.0	3594.5	3661.1	3587.6	3364.8	3410.8	3431.4	2889.4
32.5°	3826.5	3833.4	3826.5	3870.1	3893.1	3932.2	3847.2	3553.2	3541.7	3564.7	3031.8
35°	4612.0	4584.5	4511.0	4446.6	4313.4	4239.9	4129.7	3794.3	3702.5	3734.6	3171.9
37.5°	5565.2	5526.1	5358.5	5161.0	4876.1	4582.2	4444.3	4088.3	3906.9	3948.2	3323.5
40°	6474.7	6449.5	6249.6	6006.2	5519.3	5016.3	4724.6	4336.4	4134.3	4150.4	3477.4
42.5°	7223.5	7218.9	7051.2	6796.3	6171.6	5484.8	5055.3	4579.9	4373.1	4398.4	3638.2
45°	7790.8	7747.2	7623.1	7439.4	6803.2	5971.7	5454.9	4949.6	4756.7	4786.6	3879.3
47.5°	7790.8	7797.7	7878.1	7859.7	7244.2	6428.8	5891.3	5415.9	5324.0	5351.6	4276.7
50°	7156.9	7221.2	7579.5	7880.4	7473.9	6784.8	6362.2	5999.3	6093.5	6134.8	4970.3
52.5°	5902.8	6010.8	6633.2	7320.0	7303.9	6964.0	6849.1	6741.2	7163.8	7237.3	5994.7
55°	4485.7	4556.9	5367.7	6270.3	6564.3	6817.0	7274.0	7682.9	8580.9	8564.8	7035.2
57.5°	3351.1	3417.7	4115.9	5117.3	5505.5	6180.7	7492.2	8760.1	9986.6	10048.6	8011.3
60°	2464.5	2515.0	3109.9	3932.2	4492.6	5206.9	7404.9	9821.2	11605.8	11534.6	8872.6
62.5°	1823.7	1851.2	2280.7	2815.9	3560.1	4242.2	6856.0	10547.0	12898.9	12754.2	9352.7
65°	1410.2	1419.4	1642.2	1927.0	2588.5	3298.2	6038.3	10657.2	13613.3	13459.4	9343.5
66°	1256.4	1263.3	1426.3	1646.8	2202.7	2887.1	5680.0	10480.4	13725.8	13562.7	9228.6
67.5°	1054.2	1049.6	1146.1	1290.8	1653.7	2227.9	5043.8	9963.6	13592.6	13509.9	8861.1
70°	780.9	783.2	831.4	865.9	967.0	1233.4	3642.8	8642.9	12526.9	12522.3	7852.8
72.5°	578.8	585.7	622.4	629.3	604.1	668.4	2099.3	6874.4	10021.0	10023.3	5870.7
75°	434.1	445.6	457.1	461.7	438.7	422.6	948.6	4625.8	6591.9	6543.6	3323.5
77.5°	330.7	335.3	344.5	337.6	333.0	291.7	395.1	2255.5	3254.6	2965.2	1077.2
80°	241.2	241.2	250.4	241.2	238.9	209.0	215.9	723.5	955.5	794.7	232.0
82.5°	151.6	149.3	156.2	153.9	149.3	133.2	126.3	202.1	220.5	197.5	112.5
85°	85.0	82.7	80.4	78.1	71.2	59.7	68.9	75.8	101.1	103.4	80.4
87.5°	29.9	29.9	27.6	25.3	20.7	20.7	25.3	25.3	36.7	36.7	41.3
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°	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5	1396.5
2.5°	1405.7	1380.4	1343.6	1295.4	1261.0	1226.5	1189.8	1169.1	1139.2	1132.3	1141.5
5°	1430.9	1385.0	1293.1	1192.0	1104.8	1026.7	953.2	909.5	865.9	849.8	856.7
7.5°	1483.7	1405.7	1249.5	1086.4	941.7	824.6	737.3	686.7	647.7	631.6	636.2
10°	1561.8	1442.4	1208.1	967.0	780.9	656.9	583.4	551.2	528.3	519.1	521.4
12.5°	1656.0	1495.2	1155.3	847.5	643.1	535.2	500.7	493.8	489.2	484.6	486.9
15°	1761.7	1541.2	1093.3	730.4	535.2	475.4	464.0	461.7	459.4	459.4	459.4
17.5°	1871.9	1582.5	1024.4	620.1	466.3	438.7	431.8	431.8	431.8	434.1	434.1
20°	1975.3	1614.7	944.0	521.4	427.2	404.2	399.6	399.6	401.9	404.2	404.2
22.5°	2076.3	1628.4	849.8	452.5	395.1	374.4	367.5	367.5	367.5	369.8	369.8
25°	2163.6	1628.4	755.7	408.8	367.5	346.8	337.6	335.3	337.6	337.6	337.6
27.5°	2237.1	1621.6	663.8	379.0	339.9	319.3	310.1	307.8	312.4	314.7	314.7
30°	2315.2	1612.4	590.3	351.4	317.0	296.3	287.1	287.1	294.0	303.2	303.2
32.5°	2391.0	1619.3	532.9	328.4	294.0	277.9	268.7	271.0	284.8	298.6	298.6
35°	2471.4	1633.0	498.4	312.4	277.9	261.8	254.9	261.8	275.6	289.4	289.4
37.5°	2551.8	1649.1	477.7	298.6	264.1	248.1	243.5	252.7	268.7	282.5	284.8
40°	2636.7	1662.9	454.8	284.8	254.9	236.6	234.3	243.5	264.1	277.9	280.2
42.5°	2742.4	1690.5	427.2	273.3	245.8	222.8	225.1	232.0	252.7	273.3	275.6
45°	2949.1	1777.7	399.6	261.8	234.3	215.9	211.3	215.9	238.9	261.8	266.4
47.5°	3337.3	1975.3	369.8	250.4	222.8	211.3	192.9	197.5	218.2	243.5	245.8
50°	4081.4	2395.6	353.7	238.9	213.6	195.2	174.6	174.6	190.6	213.6	213.6
52.5°	5241.3	3148.9	362.9	229.7	202.1	179.2	158.5	156.2	165.4	181.4	181.4
55°	6493.1	3975.8	397.3	220.5	188.3	170.0	147.0	135.5	142.4	151.6	151.6
57.5°	7485.3	4391.5	491.5	215.9	172.3	163.1	133.2	117.1	124.0	133.2	133.2
60°	7921.7	4148.1	597.2	220.5	160.8	151.6	119.4	103.4	114.8	124.0	126.3
62.5°	7568.0	3415.4	640.8	209.0	144.7	135.5	117.1	96.5	110.2	117.1	119.4
65°	6803.2	2595.4	500.7	181.4	133.2	117.1	105.7	91.9	103.4	110.2	110.2
66°	6440.3	2262.4	427.2	167.7	128.6	110.2	101.1	91.9	101.1	105.7	108.0
67.5°	5877.6	1784.6	317.0	147.0	119.4	101.1	94.2	87.3	96.5	101.1	101.1
70°	4595.9	1063.4	190.6	114.8	103.4	89.6	85.0	80.4	87.3	89.6	89.6
72.5°	2877.9	505.3	121.7	85.0	87.3	85.0	71.2	75.8	78.1	80.4	80.4
75°	1394.2	199.8	82.7	62.0	71.2	80.4	57.4	66.6	68.9	73.5	71.2
77.5°	388.2	96.5	52.8	45.9	62.0	62.0	43.6	52.8	62.0	78.1	71.2
80°	112.5	62.0	34.5	34.5	43.6	43.6	29.9	36.7	41.3	45.9	48.2
82.5°	78.1	41.3	23.0	25.3	25.3	27.6	18.4	18.4	23.0	23.0	25.3
85°	62.0	18.4	13.8	16.1	11.5	13.8	9.2	9.2	11.5	9.2	9.2
87.5°	25.3	9.2	9.2	9.2	6.9	6.9	4.6	2.3	2.3	2.3	2.3
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)