

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: P1211700

Luminaire Tested: **ARCH4-90-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211700
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: ARCH4-90-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 765mA 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: 9734 lumens
Efficiency: N/A
Efficacy: 104.6 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): 93.1
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

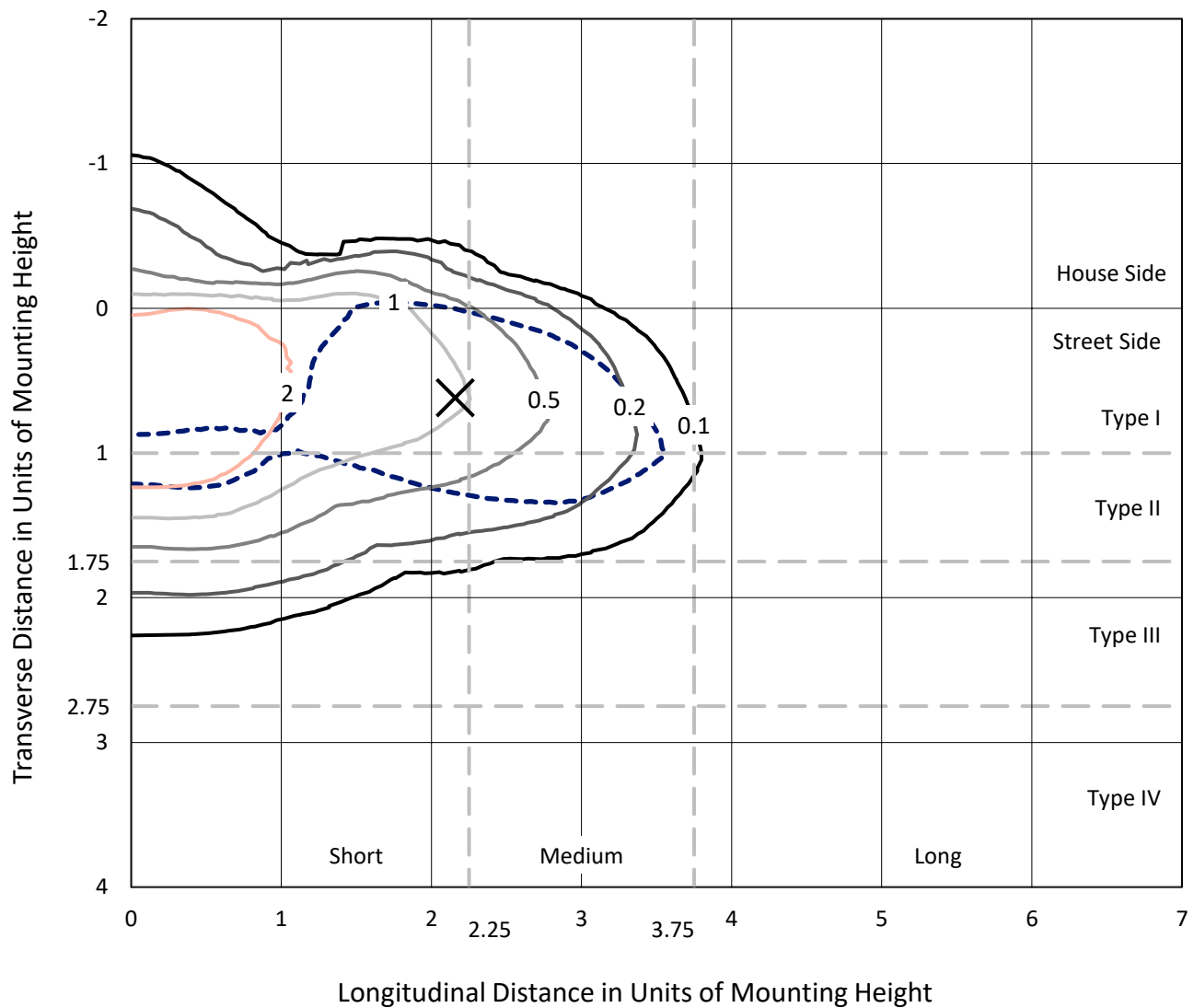


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Iso-Footcandle Lines of Horizontal Illumination

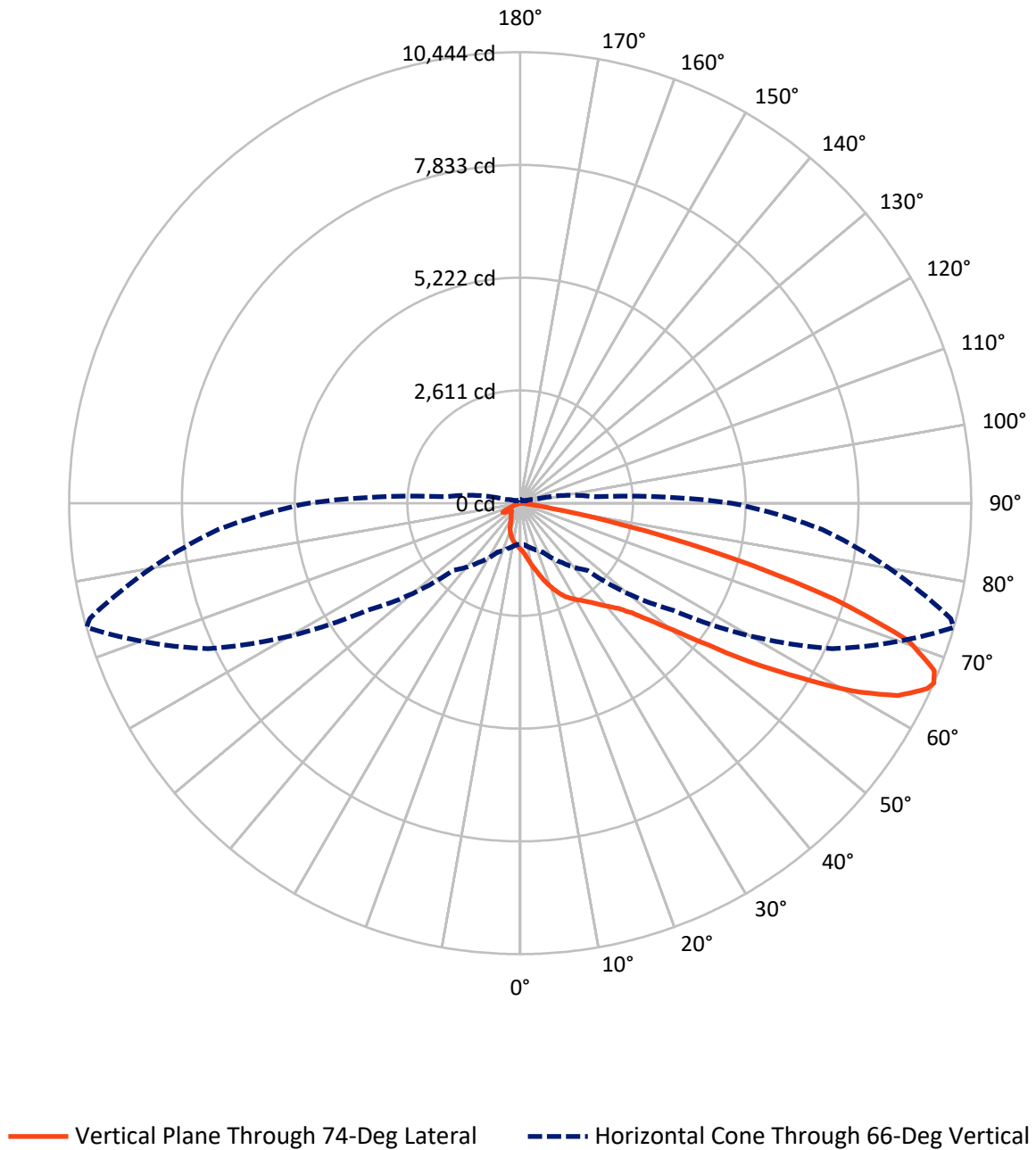
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	954.2	0.0	954.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8779.8	0.0	8779.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	9734.0	0.0	9734.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	1.1
10°-20°	332.5	3.4
20°-30°	634.5	6.5
30°-40°	1112.2	11.4
40°-50°	1907.1	19.6
50°-60°	2480.3	25.5
60°-70°	2245.3	23.1
70°-80°	866.4	8.9
80°-90°	52.1	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°	9734.0	100.0
0°-180°	9734.0	100.0

Coefficient of Utilization



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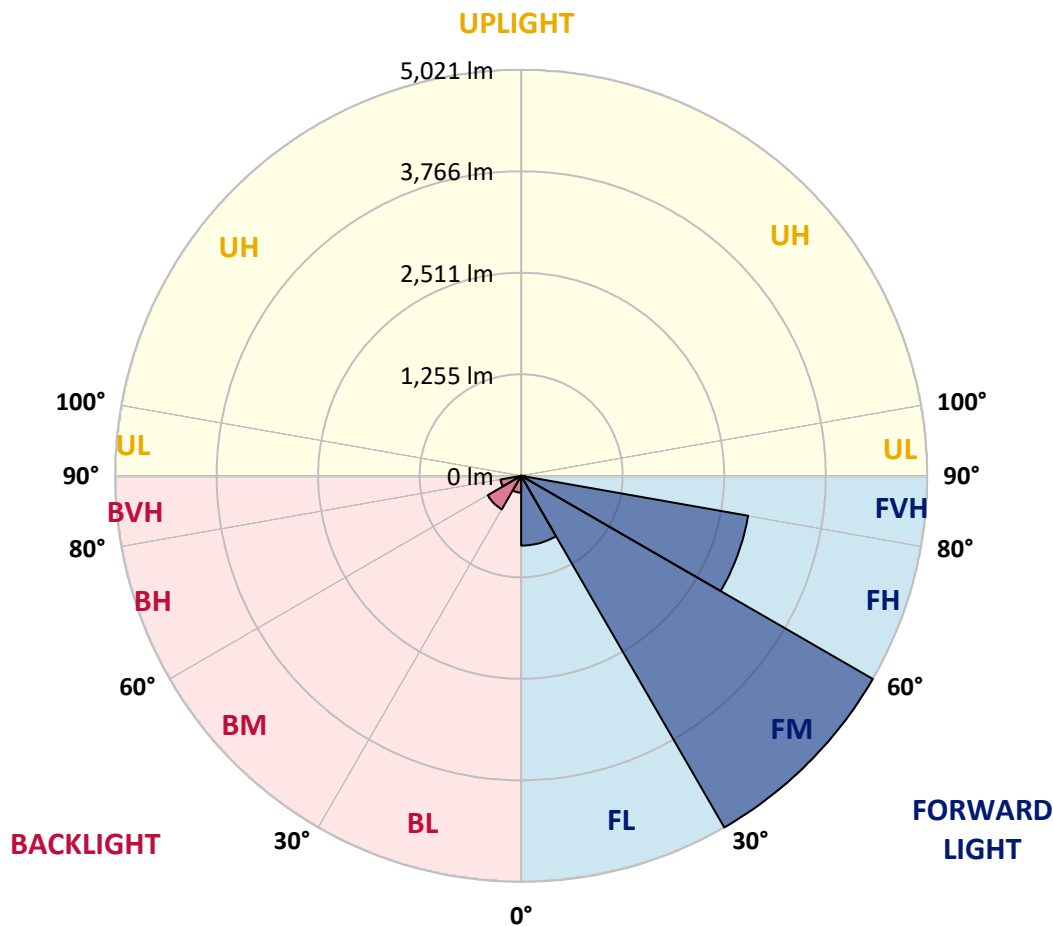
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	862.6	8.9			
FM	(30°-60°)	5021.3	51.6			
FH	(60°-80°)	2850.8	29.3			G2/5000
FVH	(80°-90°)	45.1	0.5			G1/100
BL	(0°-30°)	208.1	2.1	B1/500		
BM	(30°-60°)	478.2	4.9	B1/1000		
BH	(60°-80°)	260.9	2.7	B1/500		G1/500
BVH	(80°-90°)	7.0	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°	1062.6	1062.6	1062.6	1062.6	1062.6	1062.6	1062.6	1062.6	1062.6	1062.6	1062.6
2.5°	1275.8	1265.3	1246.0	1244.3	1228.6	1209.3	1176.1	1141.2	1116.7	1113.2	1083.5
5°	1527.4	1522.2	1502.9	1490.7	1461.0	1415.6	1338.7	1261.8	1197.1	1190.1	1123.7
7.5°	1593.8	1597.3	1600.8	1613.0	1602.6	1581.6	1523.9	1415.6	1314.2	1298.5	1183.1
10°	1604.3	1600.8	1600.8	1616.5	1646.3	1676.0	1669.0	1576.3	1445.3	1426.1	1265.3
12.5°	1717.9	1723.1	1710.9	1703.9	1698.7	1714.4	1766.8	1726.6	1583.3	1567.6	1364.9
15°	1864.7	1863.0	1845.5	1845.5	1829.8	1803.5	1836.7	1866.5	1749.4	1730.1	1478.5
17.5°	1971.3	1978.3	1976.6	1987.0	1981.8	1946.8	1929.4	1990.5	1920.6	1896.2	1607.8
20°	2056.9	2076.2	2083.2	2116.4	2132.1	2107.6	2062.2	2100.6	2084.9	2062.2	1738.9
22.5°	2147.8	2163.5	2175.8	2233.5	2277.1	2271.9	2214.2	2205.5	2243.9	2223.0	1868.2
25°	2238.7	2245.7	2282.4	2352.3	2422.2	2439.7	2380.3	2312.1	2387.2	2368.0	1983.5
27.5°	2338.3	2341.8	2385.5	2471.1	2569.0	2605.7	2558.5	2432.7	2497.3	2497.3	2088.4
30°	2520.1	2555.0	2572.5	2649.4	2735.0	2785.7	2729.8	2560.3	2595.2	2610.9	2198.5
32.5°	2911.5	2916.8	2911.5	2944.7	2962.2	2991.9	2927.3	2703.6	2694.8	2712.3	2306.9
35°	3509.2	3488.2	3432.3	3383.4	3282.0	3226.1	3142.2	2887.1	2817.2	2841.6	2413.5
37.5°	4234.5	4204.8	4077.2	3926.9	3710.2	3486.5	3381.6	3110.8	2972.7	3004.2	2528.8
40°	4926.5	4907.3	4755.3	4570.0	4199.5	3816.8	3594.8	3299.5	3145.7	3157.9	2645.9
42.5°	5496.3	5492.8	5365.2	5171.2	4695.8	4173.3	3846.5	3484.7	3327.5	3346.7	2768.2
45°	5927.9	5894.7	5800.3	5660.5	5176.4	4543.8	4150.6	3766.1	3619.3	3642.0	2951.7
47.5°	5927.9	5933.2	5994.3	5980.3	5512.0	4891.6	4482.6	4120.9	4051.0	4071.9	3254.1
50°	5445.6	5494.5	5767.1	5996.1	5686.7	5162.5	4840.9	4564.8	4636.4	4667.9	3781.8
52.5°	4491.4	4573.5	5047.1	5569.7	5557.4	5298.8	5211.4	5129.3	5450.8	5506.7	4561.3
55°	3413.1	3467.3	4084.2	4771.0	4994.7	5186.9	5534.7	5845.8	6529.1	6516.9	5352.9
57.5°	2549.8	2600.5	3131.7	3893.7	4189.0	4702.8	5700.7	6665.4	7598.6	7645.8	6095.7
60°	1875.2	1913.6	2366.3	2991.9	3418.3	3961.8	5634.3	7472.8	8830.7	8776.5	6751.0
62.5°	1387.6	1408.6	1735.4	2142.6	2708.8	3227.8	5216.6	8025.1	9814.6	9704.5	7116.3
65°	1073.0	1080.0	1249.5	1466.2	1969.6	2509.6	4594.5	8108.9	10358.1	10241.0	7109.3
66°	955.9	961.2	1085.3	1253.0	1676.0	2196.8	4321.9	7974.4	10443.8	10319.7	7021.9
67.5°	802.2	798.7	872.1	982.2	1258.3	1695.2	3837.8	7581.2	10342.4	10279.5	6742.3
70°	594.2	595.9	632.6	658.9	735.7	938.5	2771.7	6576.3	9531.5	9528.0	5975.1
72.5°	440.4	445.6	473.6	478.8	459.6	508.6	1597.3	5230.6	7624.8	7626.6	4466.9
75°	330.3	339.0	347.8	351.3	333.8	321.6	721.8	3519.7	5015.7	4979.0	2528.8
77.5°	251.7	255.2	262.1	256.9	253.4	221.9	300.6	1716.2	2476.4	2256.2	819.6
80°	183.5	183.5	190.5	183.5	181.8	159.0	164.3	550.5	727.0	604.7	176.5
82.5°	115.3	113.6	118.8	117.1	113.6	101.4	96.1	153.8	167.8	150.3	85.6
85°	64.7	62.9	61.2	59.4	54.2	45.4	52.4	57.7	76.9	78.6	61.2
87.5°	22.7	22.7	21.0	19.2	15.7	15.7	19.2	19.2	28.0	28.0	31.5
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°	1062.6	1062.6	1062.6	1062.6	1062.6	1062.6	1062.6	1062.6	1062.6	1062.6	1062.6
2.5°	1069.5	1050.3	1022.4	985.7	959.4	933.2	905.3	889.5	866.8	861.6	868.6
5°	1088.8	1053.8	983.9	907.0	840.6	781.2	725.3	692.1	658.9	646.6	651.9
7.5°	1129.0	1069.5	950.7	826.6	716.5	627.4	561.0	522.5	492.8	480.6	484.1
10°	1188.4	1097.5	919.2	735.7	594.2	499.8	443.9	419.4	402.0	395.0	396.7
12.5°	1260.0	1137.7	879.1	644.9	489.3	407.2	381.0	375.7	372.2	368.7	370.5
15°	1340.4	1172.7	831.9	555.7	407.2	361.8	353.0	351.3	349.5	349.5	349.5
17.5°	1424.3	1204.1	779.4	471.9	354.8	333.8	328.6	328.6	328.6	330.3	330.3
20°	1502.9	1228.6	718.3	396.7	325.1	307.6	304.1	304.1	305.8	307.6	307.6
22.5°	1579.8	1239.1	646.6	344.3	300.6	284.9	279.6	279.6	279.6	281.4	281.4
25°	1646.3	1239.1	575.0	311.1	279.6	263.9	256.9	255.2	256.9	256.9	256.9
27.5°	1702.2	1233.8	505.1	288.4	258.6	242.9	235.9	234.2	237.7	239.4	239.4
30°	1761.6	1226.8	449.1	267.4	241.2	225.4	218.5	218.5	223.7	230.7	230.7
32.5°	1819.3	1232.1	405.4	249.9	223.7	211.5	204.5	206.2	216.7	227.2	227.2
35°	1880.4	1242.6	379.2	237.7	211.5	199.2	194.0	199.2	209.7	220.2	220.2
37.5°	1941.6	1254.8	363.5	227.2	201.0	188.7	185.2	192.2	204.5	215.0	216.7
40°	2006.3	1265.3	346.0	216.7	194.0	180.0	178.3	185.2	201.0	211.5	213.2
42.5°	2086.7	1286.2	325.1	208.0	187.0	169.5	171.3	176.5	192.2	208.0	209.7
45°	2243.9	1352.7	304.1	199.2	178.3	164.3	160.8	164.3	181.8	199.2	202.7
47.5°	2539.3	1502.9	281.4	190.5	169.5	160.8	146.8	150.3	166.0	185.2	187.0
50°	3105.5	1822.8	269.1	181.8	162.5	148.5	132.8	132.8	145.1	162.5	162.5
52.5°	3988.1	2396.0	276.1	174.8	153.8	136.3	120.6	118.8	125.8	138.1	138.1
55°	4940.5	3025.1	302.3	167.8	143.3	129.3	111.8	103.1	108.4	115.3	115.3
57.5°	5695.5	3341.4	374.0	164.3	131.1	124.1	101.4	89.1	94.4	101.4	101.4
60°	6027.5	3156.2	454.4	167.8	122.3	115.3	90.9	78.6	87.4	94.4	96.1
62.5°	5758.4	2598.7	487.6	159.0	110.1	103.1	89.1	73.4	83.9	89.1	90.9
65°	5176.4	1974.8	381.0	138.1	101.4	89.1	80.4	69.9	78.6	83.9	83.9
66°	4900.3	1721.4	325.1	127.6	97.9	83.9	76.9	69.9	76.9	80.4	82.1
67.5°	4472.1	1357.9	241.2	111.8	90.9	76.9	71.7	66.4	73.4	76.9	76.9
70°	3497.0	809.1	145.1	87.4	78.6	68.2	64.7	61.2	66.4	68.2	68.2
72.5°	2189.8	384.5	92.6	64.7	66.4	64.7	54.2	57.7	59.4	61.2	61.2
75°	1060.8	152.0	62.9	47.2	54.2	61.2	43.7	50.7	52.4	55.9	54.2
77.5°	295.3	73.4	40.2	35.0	47.2	47.2	33.2	40.2	47.2	59.4	54.2
80°	85.6	47.2	26.2	26.2	33.2	33.2	22.7	28.0	31.5	35.0	36.7
82.5°	59.4	31.5	17.5	19.2	19.2	21.0	14.0	14.0	17.5	17.5	19.2
85°	47.2	14.0	10.5	12.2	8.7	10.5	7.0	7.0	8.7	7.0	7.0
87.5°	19.2	7.0	7.0	7.0	5.2	5.2	3.5	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)