

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: P1210840

Luminaire Tested: **ARCH3-90-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210840
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: ARCH3-90-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9813 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

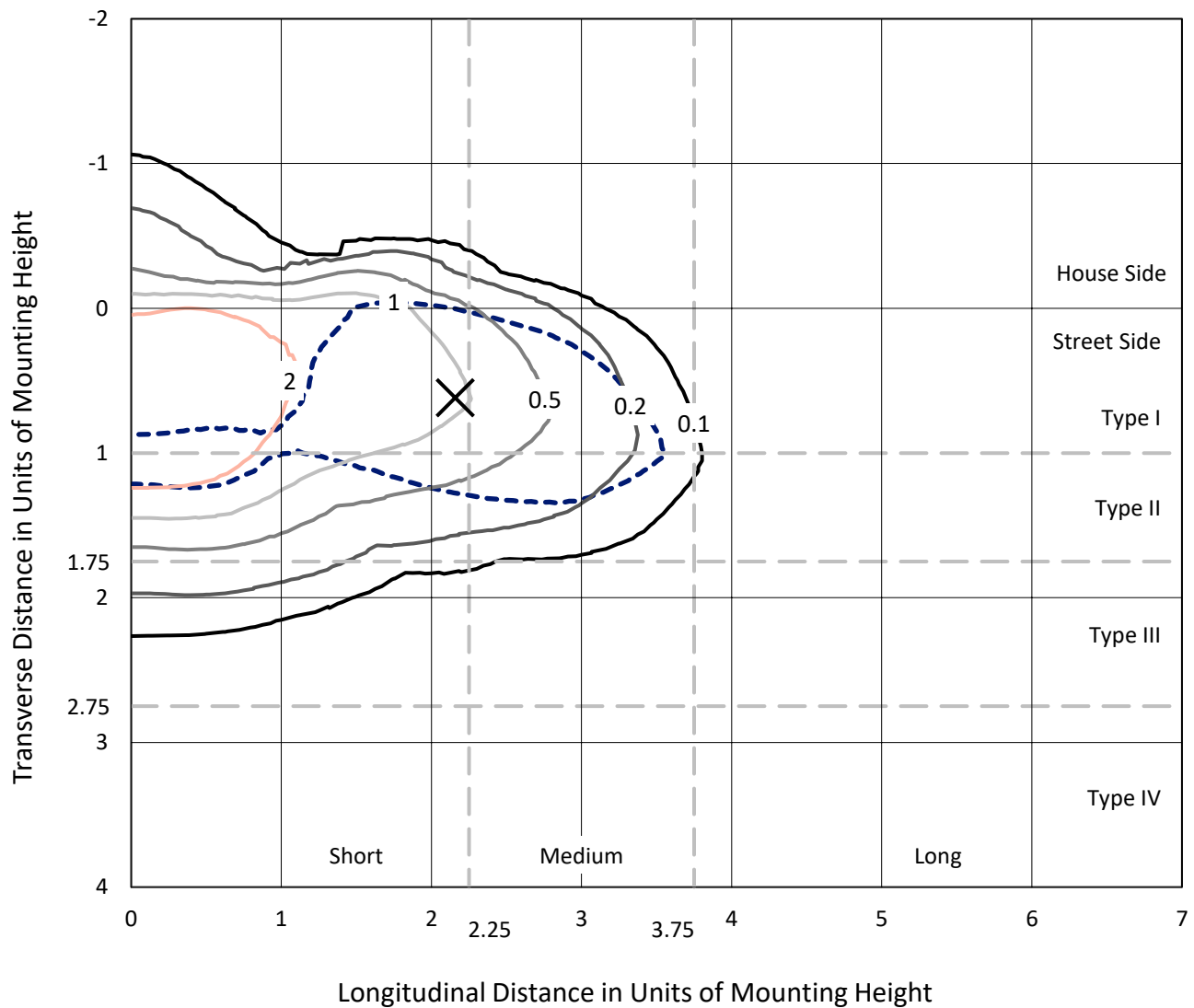
Input Watts (W): 93.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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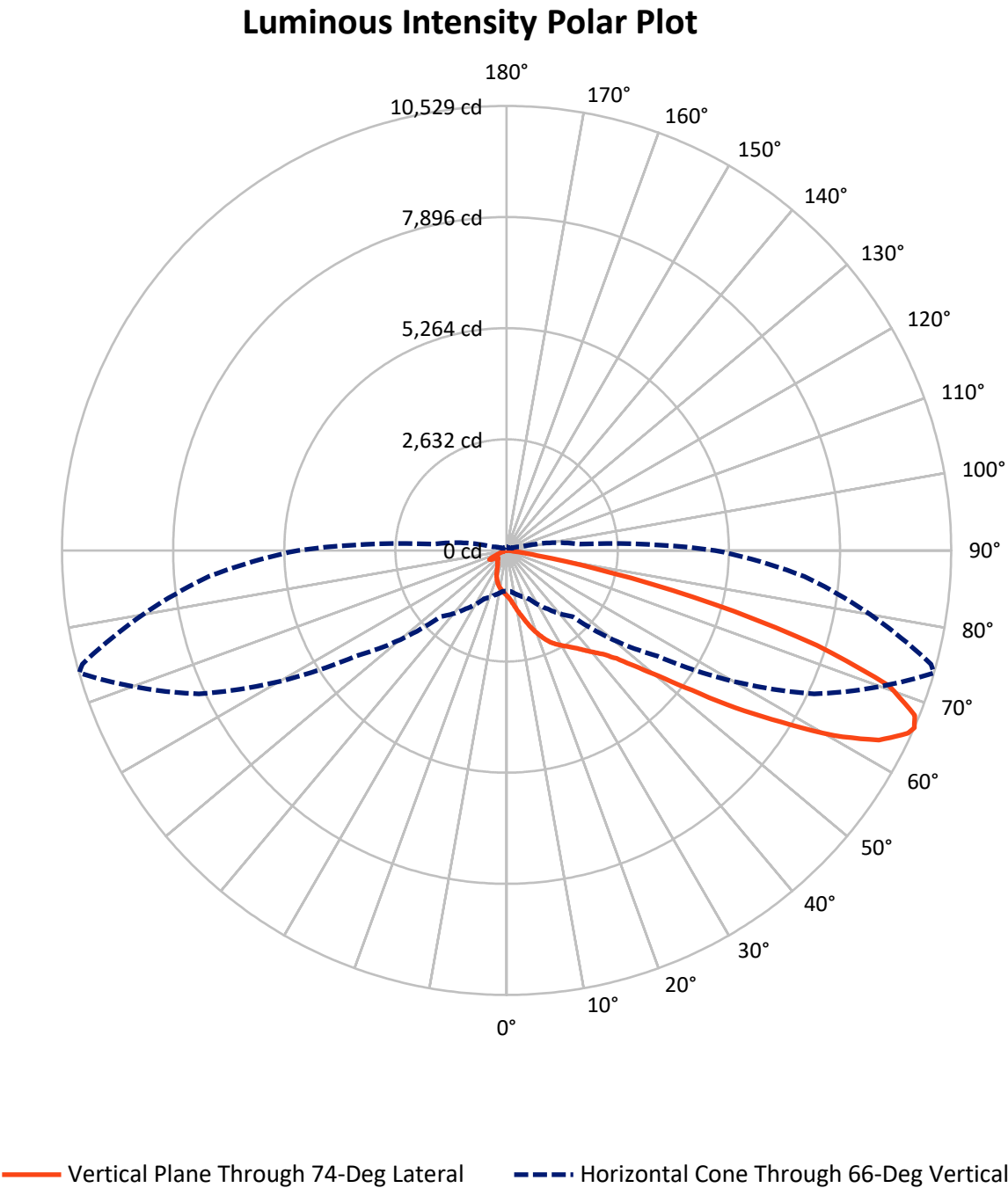
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	962.0	0.0	962.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8851.0	0.0	8851.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	9813.0	0.0	9813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.6	1.1
10°-20°	335.2	3.4
20°-30°	639.7	6.5
30°-40°	1121.2	11.4
40°-50°	1922.5	19.6
50°-60°	2500.4	25.5
60°-70°	2263.5	23.1
70°-80°	873.4	8.9
80°-90°	52.6	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°	9813.0	100.0
0°-180°	9813.0	100.0

Coefficient of Utilization



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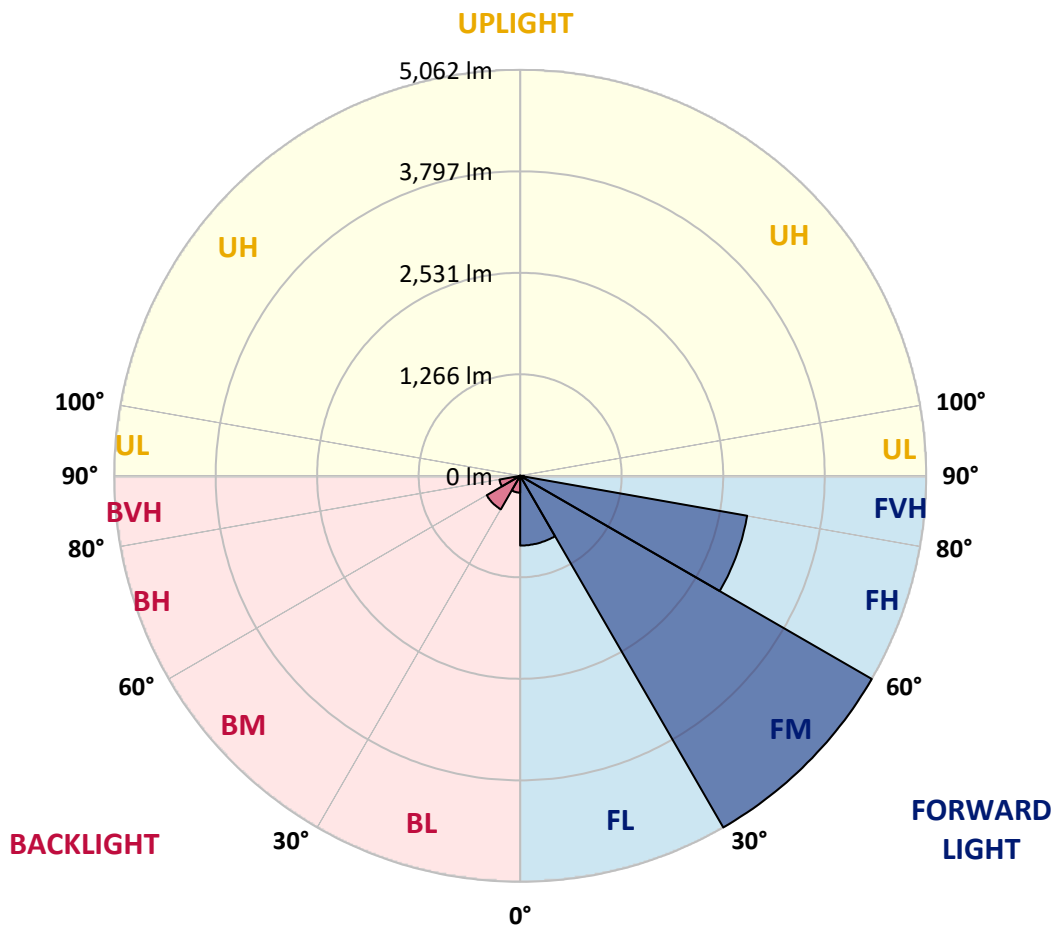
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	869.6	8.9			
FM	(30°-60°)	5062.0	51.6			
FH	(60°-80°)	2873.9	29.3			G2/5000
FVH	(80°-90°)	45.5	0.5			G1/100
BL	(0°-30°)	209.8	2.1	B1/500		
BM	(30°-60°)	482.1	4.9	B1/1000		
BH	(60°-80°)	263.0	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°	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2
2.5°	1286.1	1275.5	1256.2	1254.4	1238.5	1219.2	1185.7	1150.5	1125.8	1122.3	1092.3
5°	1539.8	1534.5	1515.1	1502.8	1472.9	1427.1	1349.5	1272.0	1206.8	1199.8	1132.8
7.5°	1606.8	1610.3	1613.8	1626.1	1615.6	1594.4	1536.3	1427.1	1324.9	1309.0	1192.7
10°	1617.3	1613.8	1613.8	1629.7	1659.6	1689.6	1682.5	1589.1	1457.0	1437.6	1275.5
12.5°	1731.8	1737.1	1724.8	1717.8	1712.5	1728.3	1781.2	1740.7	1596.2	1580.3	1376.0
15°	1879.8	1878.1	1860.5	1860.5	1844.6	1818.2	1851.7	1881.6	1763.6	1744.2	1490.5
17.5°	1987.3	1994.4	1992.6	2003.2	1997.9	1962.6	1945.0	2006.7	1936.2	1911.6	1620.9
20°	2073.6	2093.0	2100.1	2133.5	2149.4	2124.7	2078.9	2117.7	2101.8	2078.9	1753.0
22.5°	2165.3	2181.1	2193.4	2251.6	2295.6	2290.3	2232.2	2223.4	2262.1	2241.0	1883.4
25°	2256.9	2263.9	2300.9	2371.4	2441.9	2459.5	2399.6	2330.9	2406.6	2387.2	1999.6
27.5°	2357.3	2360.8	2404.9	2491.2	2589.8	2626.8	2579.3	2452.4	2517.6	2517.6	2105.3
30°	2540.5	2575.8	2593.4	2670.9	2757.2	2808.3	2751.9	2581.0	2616.3	2632.1	2216.3
32.5°	2935.2	2940.4	2935.2	2968.6	2986.2	3016.2	2951.0	2725.5	2716.7	2734.3	2325.6
35°	3537.7	3516.6	3460.2	3410.8	3308.7	3252.3	3167.7	2910.5	2840.0	2864.7	2433.0
37.5°	4268.8	4238.9	4110.3	3958.8	3740.3	3514.8	3409.1	3136.0	2996.8	3028.5	2549.3
40°	4966.5	4947.1	4793.9	4607.1	4233.6	3847.8	3624.0	3326.3	3171.2	3183.6	2667.4
42.5°	5540.9	5537.3	5408.7	5213.2	4734.0	4207.2	3877.7	3513.0	3354.5	3373.8	2790.7
45°	5976.0	5942.5	5847.4	5706.5	5218.4	4580.7	4184.3	3796.7	3648.7	3671.6	2975.7
47.5°	5976.0	5981.3	6043.0	6028.9	5556.7	4931.3	4519.0	4154.3	4083.9	4105.0	3280.5
50°	5489.8	5539.1	5813.9	6044.7	5732.9	5204.4	4880.2	4601.8	4674.1	4705.8	3812.5
52.5°	4527.8	4610.6	5088.1	5614.9	5602.5	5341.8	5253.7	5170.9	5495.1	5551.4	4598.3
55°	3440.8	3495.4	4117.3	4809.7	5035.2	5229.0	5579.6	5893.2	6582.1	6569.7	5396.4
57.5°	2570.5	2621.6	3157.1	3925.3	4223.0	4741.0	5747.0	6719.5	7660.3	7707.9	6145.2
60°	1890.4	1929.2	2385.5	3016.2	3446.1	3994.0	5680.0	7533.5	8902.4	8847.8	6805.8
62.5°	1398.9	1420.0	1749.5	2160.0	2730.8	3254.0	5259.0	8090.2	9894.3	9783.3	7174.0
65°	1081.7	1088.8	1259.7	1478.1	1985.5	2529.9	4631.8	8174.7	10442.2	10324.1	7167.0
66°	963.7	969.0	1094.1	1263.2	1689.6	2214.6	4356.9	8039.1	10528.5	10403.4	7078.9
67.5°	808.7	805.1	879.1	990.1	1268.5	1708.9	3868.9	7642.7	10426.3	10362.9	6797.0
70°	599.0	600.8	637.8	664.2	741.7	946.1	2794.2	6629.6	9608.9	9605.3	6023.6
72.5°	444.0	449.3	477.4	482.7	463.4	512.7	1610.3	5273.1	7686.7	7688.5	4503.2
75°	333.0	341.8	350.6	354.1	336.5	324.2	727.6	3548.3	5056.4	5019.4	2549.3
77.5°	253.7	257.2	264.3	259.0	255.5	223.7	303.0	1730.1	2496.5	2274.5	826.3
80°	185.0	185.0	192.0	185.0	183.2	160.3	165.6	555.0	732.9	609.6	177.9
82.5°	116.3	114.5	119.8	118.0	114.5	102.2	96.9	155.0	169.1	151.5	86.3
85°	65.2	63.4	61.7	59.9	54.6	45.8	52.9	58.1	77.5	79.3	61.7
87.5°	22.9	22.9	21.1	19.4	15.9	15.9	19.4	19.4	28.2	28.2	31.7
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°	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2	1071.2
2.5°	1078.2	1058.8	1030.7	993.7	967.2	940.8	912.6	896.8	873.9	868.6	875.6
5°	1097.6	1062.4	991.9	914.4	847.4	787.5	731.1	697.7	664.2	651.9	657.2
7.5°	1138.1	1078.2	958.4	833.3	722.3	632.5	565.5	526.8	496.8	484.5	488.0
10°	1198.0	1106.4	926.7	741.7	599.0	503.9	447.5	422.8	405.2	398.2	399.9
12.5°	1270.3	1146.9	886.2	650.1	493.3	410.5	384.1	378.8	375.3	371.7	373.5
15°	1351.3	1182.2	838.6	560.3	410.5	364.7	355.9	354.1	352.4	352.4	352.4
17.5°	1435.9	1213.9	785.8	475.7	357.6	336.5	331.2	331.2	331.2	333.0	333.0
20°	1515.1	1238.5	724.1	399.9	327.7	310.1	306.6	306.6	308.3	310.1	310.1
22.5°	1592.7	1249.1	651.9	347.1	303.0	287.2	281.9	281.9	281.9	283.6	283.6
25°	1659.6	1249.1	579.6	313.6	281.9	266.0	259.0	257.2	259.0	259.0	259.0
27.5°	1716.0	1243.8	509.2	290.7	260.7	244.9	237.8	236.1	239.6	241.4	241.4
30°	1775.9	1236.8	452.8	269.6	243.1	227.3	220.2	220.2	225.5	232.6	232.6
32.5°	1834.0	1242.1	408.7	251.9	225.5	213.2	206.1	207.9	218.5	229.0	229.0
35°	1895.7	1252.6	382.3	239.6	213.2	200.8	195.6	200.8	211.4	222.0	222.0
37.5°	1957.4	1265.0	366.5	229.0	202.6	190.3	186.8	193.8	206.1	216.7	218.5
40°	2022.5	1275.5	348.8	218.5	195.6	181.5	179.7	186.8	202.6	213.2	214.9
42.5°	2103.6	1296.7	327.7	209.7	188.5	170.9	172.7	177.9	193.8	209.7	211.4
45°	2262.1	1363.6	306.6	200.8	179.7	165.6	162.1	165.6	183.2	200.8	204.4
47.5°	2559.9	1515.1	283.6	192.0	170.9	162.1	148.0	151.5	167.4	186.8	188.5
50°	3130.7	1837.6	271.3	183.2	163.8	149.8	133.9	133.9	146.2	163.8	163.8
52.5°	4020.4	2415.4	278.4	176.2	155.0	137.4	121.6	119.8	126.8	139.2	139.2
55°	4980.6	3049.7	304.8	169.1	144.5	130.4	112.8	103.9	109.2	116.3	116.3
57.5°	5741.7	3368.6	377.0	165.6	132.1	125.1	102.2	89.9	95.1	102.2	102.2
60°	6076.4	3181.8	458.1	169.1	123.3	116.3	91.6	79.3	88.1	95.1	96.9
62.5°	5805.1	2619.8	491.5	160.3	111.0	103.9	89.9	74.0	84.6	89.9	91.6
65°	5218.4	1990.8	384.1	139.2	102.2	89.9	81.0	70.5	79.3	84.6	84.6
66°	4940.1	1735.4	327.7	128.6	98.7	84.6	77.5	70.5	77.5	81.0	82.8
67.5°	4508.4	1368.9	243.1	112.8	91.6	77.5	72.2	66.9	74.0	77.5	77.5
70°	3525.4	815.7	146.2	88.1	79.3	68.7	65.2	61.7	66.9	68.7	68.7
72.5°	2207.5	387.6	93.4	65.2	66.9	65.2	54.6	58.1	59.9	61.7	61.7
75°	1069.4	153.3	63.4	47.6	54.6	61.7	44.0	51.1	52.9	56.4	54.6
77.5°	297.7	74.0	40.5	35.2	47.6	47.6	33.5	40.5	47.6	59.9	54.6
80°	86.3	47.6	26.4	26.4	33.5	33.5	22.9	28.2	31.7	35.2	37.0
82.5°	59.9	31.7	17.6	19.4	19.4	21.1	14.1	14.1	17.6	17.6	19.4
85°	47.6	14.1	10.6	12.3	8.8	10.6	7.0	7.0	8.8	7.0	7.0
87.5°	19.4	7.0	7.0	7.0	5.3	5.3	3.5	1.8	1.8	1.8	1.8
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)