

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: P1210108

Luminaire Tested: **ARCH2-110-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210108
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: ARCH2-110-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 9581 lumens
Efficiency: N/A
Efficacy: 87.5 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

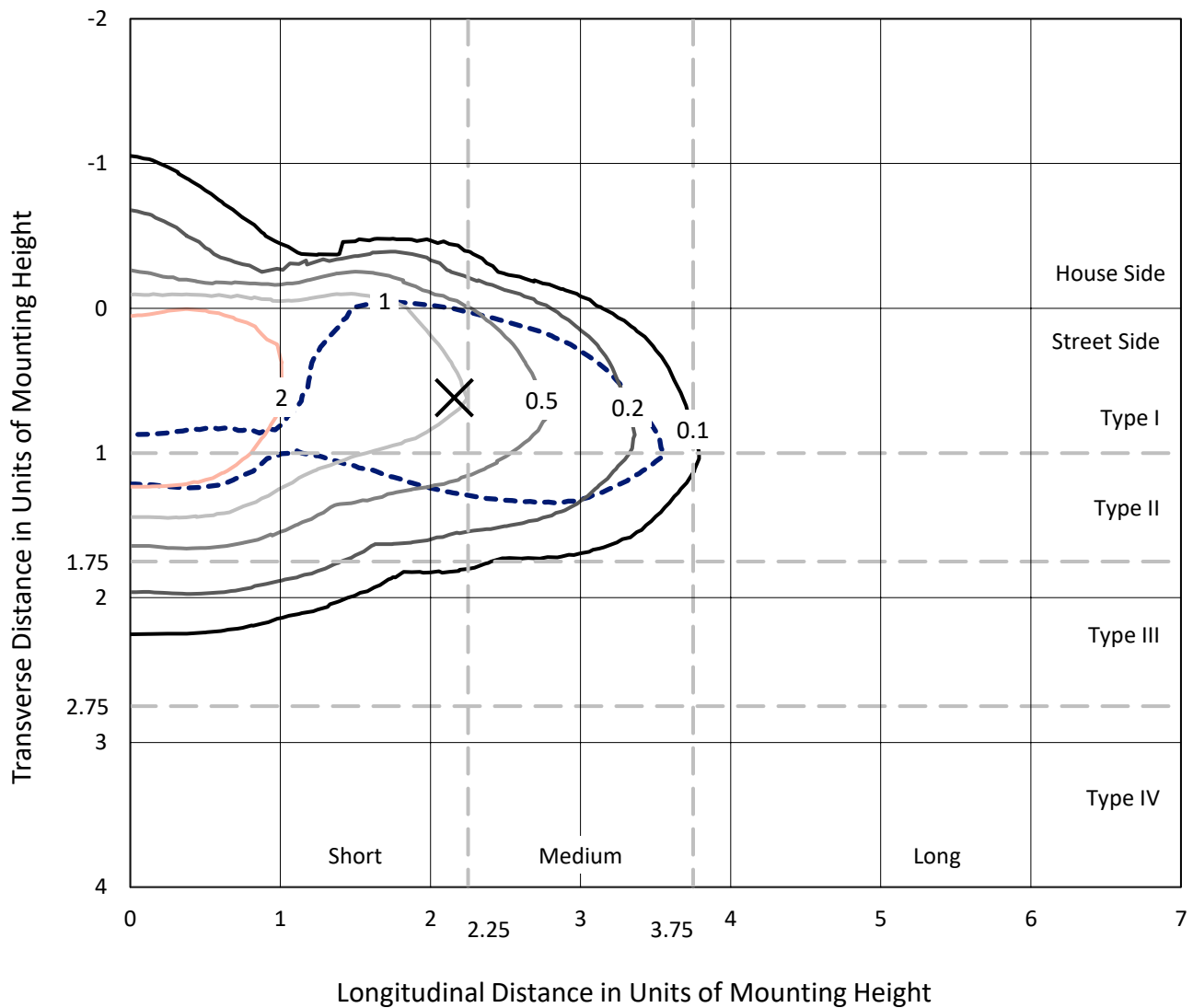
Input Watts (W): 109.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

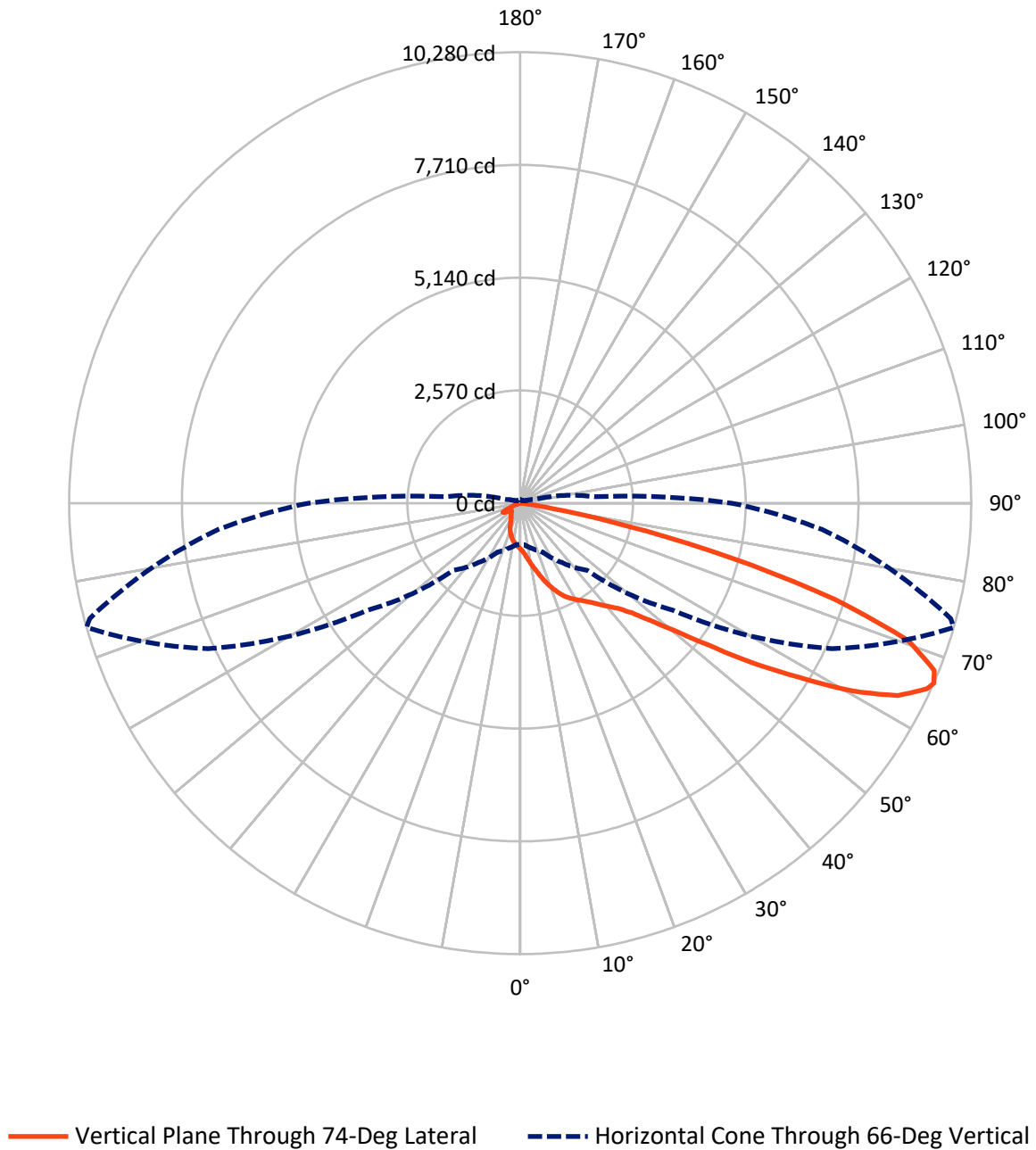
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	939.2	0.0	939.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8641.8	0.0	8641.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	9581.0	0.0	9581.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	1.1
10°-20°	327.3	3.4
20°-30°	624.6	6.5
30°-40°	1094.7	11.4
40°-50°	1877.1	19.6
50°-60°	2441.3	25.5
60°-70°	2210.0	23.1
70°-80°	852.7	8.9
80°-90°	51.3	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°	9581.0	100.0
0°-180°	9581.0	100.0

Coefficient of Utilization



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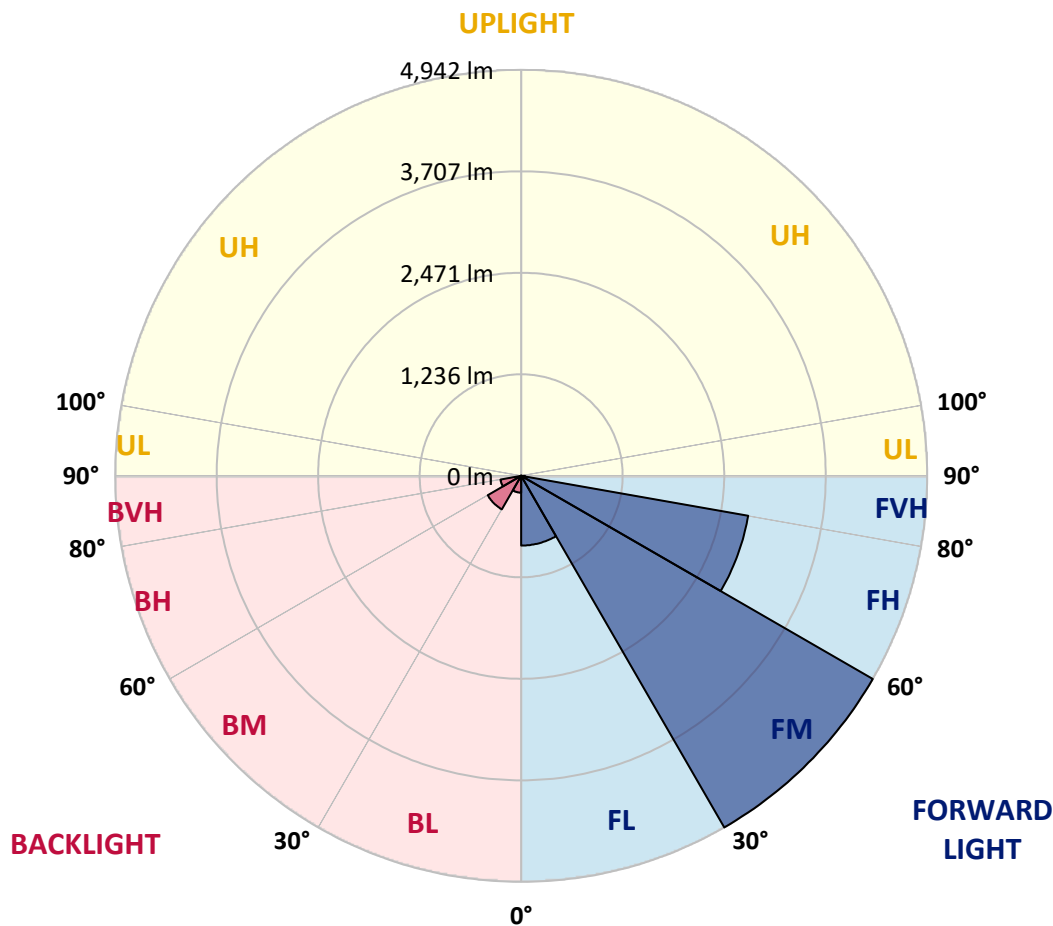
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	849.0	8.9			
FM	(30°-60°)	4942.4	51.6			
FH	(60°-80°)	2805.9	29.3			G2/5000
FVH	(80°-90°)	44.4	0.5			G1/100
BL	(0°-30°)	204.9	2.1	B1/500		
BM	(30°-60°)	470.7	4.9	B1/1000		
BH	(60°-80°)	256.8	2.7	B1/500		G1/500
BVH	(80°-90°)	6.9	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°	1045.8	1045.8	1045.8	1045.8	1045.8	1045.8	1045.8	1045.8	1045.8	1045.8	1045.8
2.5°	1255.7	1245.4	1226.5	1224.7	1209.3	1190.3	1157.7	1123.3	1099.2	1095.7	1066.5
5°	1503.4	1498.2	1479.3	1467.3	1438.0	1393.3	1317.6	1241.9	1178.3	1171.4	1106.1
7.5°	1568.8	1572.2	1575.7	1587.7	1577.4	1556.7	1500.0	1393.3	1293.6	1278.1	1164.5
10°	1579.1	1575.7	1575.7	1591.1	1620.4	1649.6	1642.7	1551.6	1422.6	1403.6	1245.4
12.5°	1690.9	1696.1	1684.0	1677.1	1672.0	1687.5	1739.1	1699.5	1558.5	1543.0	1343.4
15°	1835.4	1833.7	1816.5	1816.5	1801.0	1775.2	1807.9	1837.1	1721.9	1702.9	1455.2
17.5°	1940.3	1947.2	1945.5	1955.8	1950.6	1916.2	1899.0	1959.2	1890.4	1866.4	1582.5
20°	2024.6	2043.5	2050.4	2083.1	2098.6	2074.5	2029.8	2067.6	2052.1	2029.8	1711.5
22.5°	2114.1	2129.5	2141.6	2198.3	2241.4	2236.2	2179.4	2170.8	2208.7	2188.0	1838.8
25°	2203.5	2210.4	2246.5	2315.3	2384.1	2401.3	2342.8	2275.8	2349.7	2330.8	1952.4
27.5°	2301.6	2305.0	2348.0	2432.3	2528.6	2564.7	2518.3	2394.4	2458.1	2458.1	2055.6
30°	2480.5	2514.9	2532.1	2607.7	2692.0	2741.9	2686.9	2520.0	2554.4	2569.9	2163.9
32.5°	2865.8	2870.9	2865.8	2898.4	2915.6	2944.9	2881.2	2661.1	2652.5	2669.7	2270.6
35°	3454.1	3433.4	3378.4	3330.2	3230.4	3175.4	3092.8	2841.7	2772.9	2797.0	2375.5
37.5°	4167.9	4138.7	4013.1	3865.2	3651.9	3431.7	3328.5	3061.9	2926.0	2956.9	2489.1
40°	4849.1	4830.2	4680.5	4498.2	4133.5	3756.8	3538.3	3247.6	3096.3	3108.3	2604.3
42.5°	5409.9	5406.4	5280.8	5089.9	4622.0	4107.7	3786.0	3430.0	3275.2	3294.1	2724.7
45°	5834.7	5802.1	5709.2	5571.6	5095.1	4472.4	4085.3	3706.9	3562.4	3584.8	2905.3
47.5°	5834.7	5839.9	5900.1	5886.3	5425.3	4814.7	4412.2	4056.1	3987.3	4007.9	3202.9
50°	5360.0	5408.1	5676.5	5901.8	5597.4	5081.3	4764.8	4493.0	4563.5	4594.5	3722.4
52.5°	4420.8	4501.6	4967.8	5482.1	5470.1	5215.5	5129.5	5048.6	5365.1	5420.2	4489.6
55°	3359.4	3412.8	4020.0	4696.0	4916.2	5105.4	5447.7	5753.9	6426.5	6414.4	5268.8
57.5°	2509.7	2559.6	3082.5	3832.5	4123.2	4628.9	5611.1	6560.6	7479.2	7525.6	5999.9
60°	1845.7	1883.6	2329.1	2944.9	3364.6	3899.6	5545.8	7355.3	8691.9	8638.6	6644.9
62.5°	1365.8	1386.4	1708.1	2108.9	2666.2	3177.1	5134.6	7898.9	9660.3	9552.0	7004.4
65°	1056.2	1063.1	1229.9	1443.2	1938.6	2470.1	4522.3	7981.5	10195.3	10080.1	6997.6
66°	940.9	946.1	1068.2	1233.3	1649.6	2162.2	4253.9	7849.0	10279.6	10157.5	6911.5
67.5°	789.5	786.1	858.4	966.7	1238.5	1668.5	3777.4	7462.0	10179.8	10117.9	6636.3
70°	584.8	586.6	622.7	648.5	724.2	923.7	2728.2	6472.9	9381.7	9378.2	5881.2
72.5°	433.5	438.6	466.2	471.3	452.4	500.6	1572.2	5148.4	7505.0	7506.7	4396.7
75°	325.1	333.7	342.3	345.7	328.5	316.5	710.4	3464.4	4936.8	4900.7	2489.1
77.5°	247.7	251.1	258.0	252.9	249.4	218.5	295.9	1689.2	2437.4	2220.7	806.7
80°	180.6	180.6	187.5	180.6	178.9	156.5	161.7	541.8	715.6	595.2	173.7
82.5°	113.5	111.8	117.0	115.2	111.8	99.8	94.6	151.4	165.1	147.9	84.3
85°	63.6	61.9	60.2	58.5	53.3	44.7	51.6	56.8	75.7	77.4	60.2
87.5°	22.4	22.4	20.6	18.9	15.5	15.5	18.9	18.9	27.5	27.5	31.0
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°	1045.8	1045.8	1045.8	1045.8	1045.8	1045.8	1045.8	1045.8	1045.8	1045.8	1045.8
2.5°	1052.7	1033.8	1006.3	970.2	944.4	918.6	891.0	875.6	853.2	848.0	854.9
5°	1071.7	1037.2	968.4	892.8	827.4	768.9	713.9	681.2	648.5	636.5	641.6
7.5°	1111.2	1052.7	935.8	813.6	705.3	617.5	552.2	514.3	485.1	473.0	476.5
10°	1169.7	1080.3	904.8	724.2	584.8	492.0	436.9	412.8	395.6	388.8	390.5
12.5°	1240.2	1119.8	865.2	634.7	481.6	400.8	375.0	369.8	366.4	363.0	364.7
15°	1319.4	1154.2	818.8	547.0	400.8	356.1	347.5	345.7	344.0	344.0	344.0
17.5°	1401.9	1185.2	767.2	464.4	349.2	328.5	323.4	323.4	323.4	325.1	325.1
20°	1479.3	1209.3	707.0	390.5	319.9	302.7	299.3	299.3	301.0	302.7	302.7
22.5°	1555.0	1219.6	636.5	338.9	295.9	280.4	275.2	275.2	275.2	276.9	276.9
25°	1620.4	1219.6	565.9	306.2	275.2	259.7	252.9	251.1	252.9	252.9	252.9
27.5°	1675.4	1214.4	497.1	283.8	254.6	239.1	232.2	230.5	233.9	235.7	235.7
30°	1733.9	1207.5	442.1	263.2	237.4	221.9	215.0	215.0	220.2	227.1	227.1
32.5°	1790.7	1212.7	399.1	246.0	220.2	208.1	201.3	203.0	213.3	223.6	223.6
35°	1850.9	1223.0	373.3	233.9	208.1	196.1	190.9	196.1	206.4	216.7	216.7
37.5°	1911.1	1235.1	357.8	223.6	197.8	185.8	182.3	189.2	201.3	211.6	213.3
40°	1974.7	1245.4	340.6	213.3	190.9	177.2	175.5	182.3	197.8	208.1	209.9
42.5°	2053.9	1266.0	319.9	204.7	184.1	166.9	168.6	173.7	189.2	204.7	206.4
45°	2208.7	1331.4	299.3	196.1	175.5	161.7	158.3	161.7	178.9	196.1	199.5
47.5°	2499.4	1479.3	276.9	187.5	166.9	158.3	144.5	147.9	163.4	182.3	184.1
50°	3056.7	1794.1	264.9	178.9	160.0	146.2	130.7	130.7	142.8	160.0	160.0
52.5°	3925.4	2358.3	271.8	172.0	151.4	134.2	118.7	117.0	123.9	135.9	135.9
55°	4862.9	2977.6	297.6	165.1	141.1	127.3	110.1	101.5	106.6	113.5	113.5
57.5°	5606.0	3288.9	368.1	161.7	129.0	122.1	99.8	87.7	92.9	99.8	99.8
60°	5932.8	3106.6	447.2	165.1	120.4	113.5	89.4	77.4	86.0	92.9	94.6
62.5°	5667.9	2557.9	479.9	156.5	108.4	101.5	87.7	72.2	82.6	87.7	89.4
65°	5095.1	1943.8	375.0	135.9	99.8	87.7	79.1	68.8	77.4	82.6	82.6
66°	4823.3	1694.3	319.9	125.6	96.3	82.6	75.7	68.8	75.7	79.1	80.8
67.5°	4401.9	1336.6	237.4	110.1	89.4	75.7	70.5	65.4	72.2	75.7	75.7
70°	3442.0	796.4	142.8	86.0	77.4	67.1	63.6	60.2	65.4	67.1	67.1
72.5°	2155.3	378.4	91.2	63.6	65.4	63.6	53.3	56.8	58.5	60.2	60.2
75°	1044.1	149.7	61.9	46.4	53.3	60.2	43.0	49.9	51.6	55.0	53.3
77.5°	290.7	72.2	39.6	34.4	46.4	46.4	32.7	39.6	46.4	58.5	53.3
80°	84.3	46.4	25.8	25.8	32.7	32.7	22.4	27.5	31.0	34.4	36.1
82.5°	58.5	31.0	17.2	18.9	18.9	20.6	13.8	13.8	17.2	17.2	18.9
85°	46.4	13.8	10.3	12.0	8.6	10.3	6.9	6.9	8.6	6.9	6.9
87.5°	18.9	6.9	6.9	6.9	5.2	5.2	3.4	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)