

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: P1210396

Luminaire Tested: **ARCH3-110-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210396
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: ARCH3-110-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 880mA 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: 11837 lumens
Efficiency: N/A
Efficacy: 105.8 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

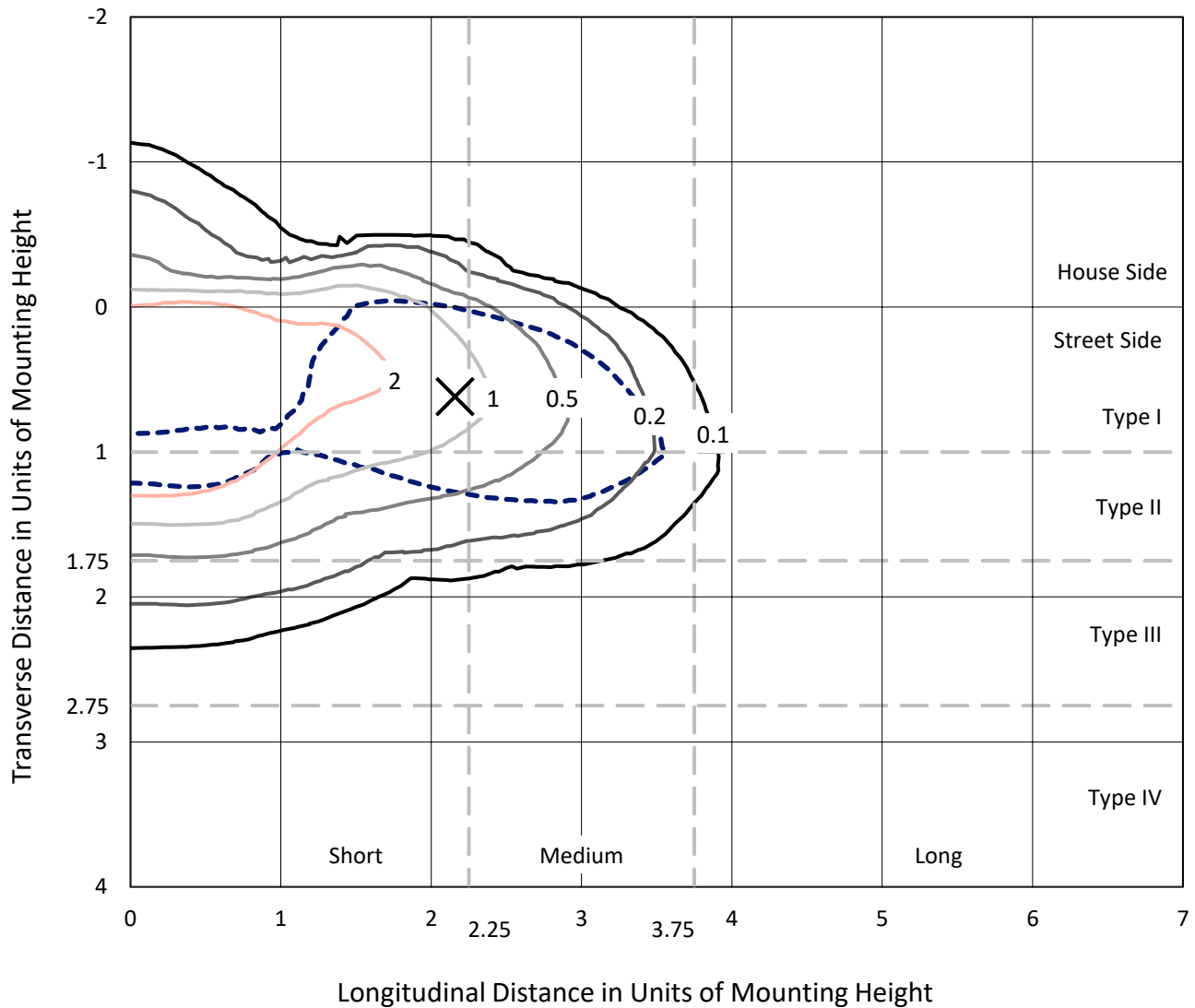
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

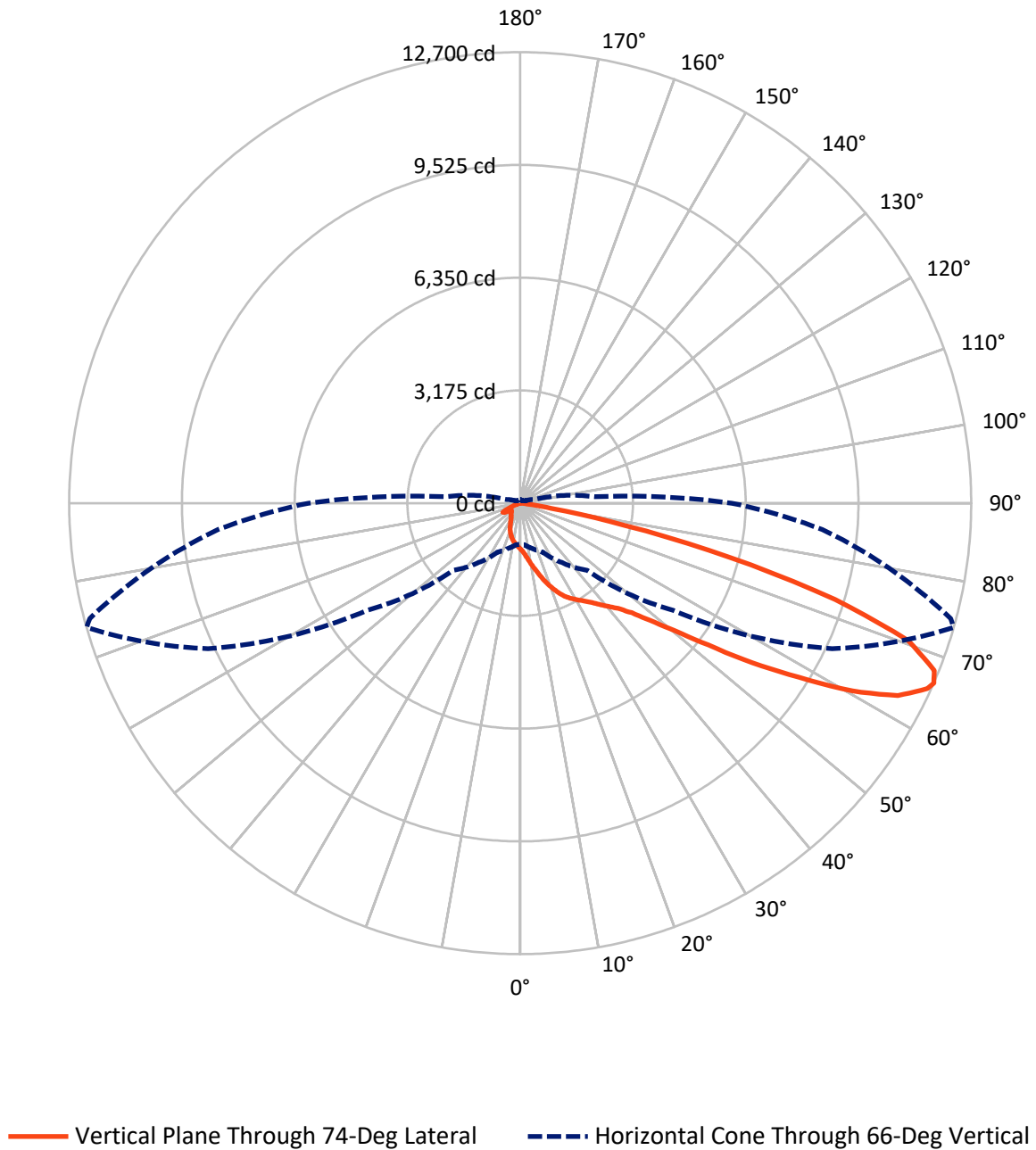
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	1160.4	0.0	1160.4
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	10676.6	0.0	10676.6
	% Fixture	90.2	0.0	90.2
Total	Lumens	11837.0	0.0	11837.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	1.1
10°-20°	404.3	3.4
20°-30°	771.6	6.5
30°-40°	1352.4	11.4
40°-50°	2319.1	19.6
50°-60°	3016.2	25.5
60°-70°	2730.4	23.1
70°-80°	1053.5	8.9
80°-90°	63.4	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°	11837.0	100.0
0°-180°	11837.0	100.0

Coefficient of Utilization



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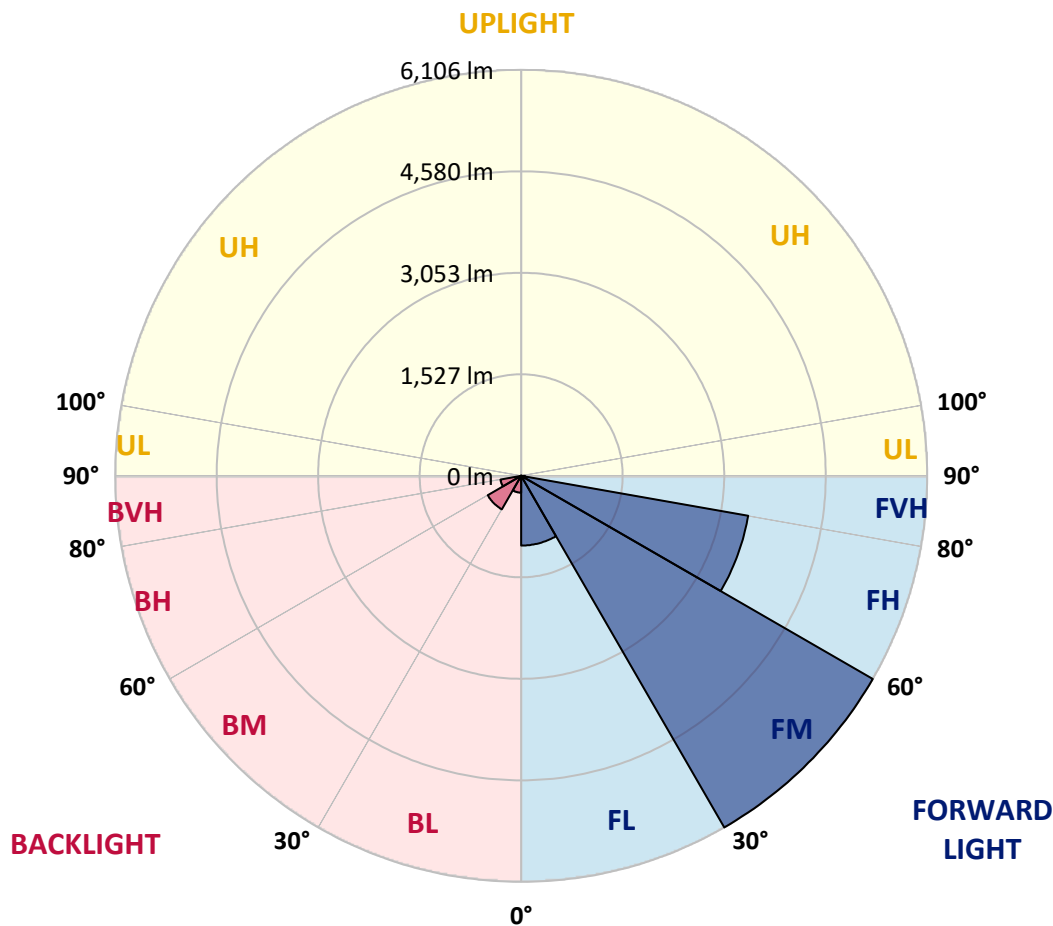
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1048.9	8.9			
FM	(30°-60°)	6106.1	51.6			
FH	(60°-80°)	3466.6	29.3			G2/5000
FVH	(80°-90°)	54.9	0.5			G1/100
BL	(0°-30°)	253.1	2.1	B1/500		
BM	(30°-60°)	581.6	4.9	B1/1000		
BH	(60°-80°)	317.2	2.7	B1/500		G1/500
BVH	(80°-90°)	8.5	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°	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1
2.5°	1551.4	1538.6	1515.3	1513.1	1494.0	1470.6	1430.2	1387.7	1358.0	1353.7	1317.6
5°	1857.4	1851.0	1827.7	1812.8	1776.7	1721.4	1627.9	1534.4	1455.7	1447.2	1366.5
7.5°	1938.2	1942.4	1946.7	1961.5	1948.8	1923.3	1853.2	1721.4	1598.1	1579.0	1438.7
10°	1950.9	1946.7	1946.7	1965.8	2001.9	2038.0	2029.5	1916.9	1757.5	1734.1	1538.6
12.5°	2089.1	2095.4	2080.6	2072.1	2065.7	2084.8	2148.6	2099.7	1925.4	1906.3	1659.8
15°	2267.6	2265.4	2244.2	2244.2	2225.1	2193.2	2233.6	2269.7	2127.3	2103.9	1797.9
17.5°	2397.2	2405.7	2403.6	2416.3	2410.0	2367.5	2346.2	2420.6	2335.6	2305.8	1955.2
20°	2501.3	2524.7	2533.2	2573.6	2592.7	2563.0	2507.7	2554.5	2535.3	2507.7	2114.6
22.5°	2611.8	2631.0	2645.9	2716.0	2769.1	2762.7	2692.6	2682.0	2728.7	2703.2	2271.8
25°	2722.4	2730.9	2775.5	2860.5	2945.5	2966.8	2894.5	2811.6	2903.0	2879.6	2412.1
27.5°	2843.5	2847.7	2900.9	3005.0	3124.0	3168.6	3111.3	2958.3	3036.9	3036.9	2539.6
30°	3064.5	3107.0	3128.3	3221.8	3325.9	3387.5	3319.5	3113.4	3155.9	3175.0	2673.5
32.5°	3540.6	3546.9	3540.6	3580.9	3602.2	3638.3	3559.7	3287.7	3277.0	3298.3	2805.2
35°	4267.4	4241.9	4173.9	4114.4	3991.1	3923.1	3821.1	3510.8	3425.8	3455.5	2934.9
37.5°	5149.3	5113.2	4958.1	4775.3	4511.8	4239.7	4112.2	3782.8	3614.9	3653.2	3075.1
40°	5990.9	5967.5	5782.6	5557.4	5106.8	4641.4	4371.5	4012.3	3825.3	3840.2	3217.5
42.5°	6683.7	6679.4	6524.3	6288.4	5710.4	5074.9	4677.5	4237.6	4046.3	4069.7	3366.3
45°	7208.6	7168.2	7053.5	6883.5	6294.8	5525.5	5047.3	4579.8	4401.3	4428.9	3589.4
47.5°	7208.6	7215.0	7289.4	7272.4	6702.8	5948.4	5451.1	5011.2	4926.2	4951.7	3957.1
50°	6622.1	6681.6	7013.1	7291.5	6915.3	6277.8	5886.8	5551.0	5638.1	5676.4	4598.9
52.5°	5461.7	5561.6	6137.5	6773.0	6758.1	6443.6	6337.3	6237.4	6628.4	6696.4	5546.7
55°	4150.5	4216.4	4966.6	5801.7	6073.8	6307.5	6730.5	7108.7	7939.7	7924.8	6509.4
57.5°	3100.6	3162.3	3808.3	4734.9	5094.1	5718.9	6932.3	8105.4	9240.3	9297.7	7412.6
60°	2280.3	2327.1	2877.5	3638.3	4156.9	4817.8	6851.6	9087.3	10738.5	10672.7	8209.6
62.5°	1687.4	1712.9	2110.3	2605.5	3294.0	3925.2	6343.7	9758.8	11935.0	11801.1	8653.7
65°	1304.9	1313.4	1519.5	1783.0	2395.1	3051.8	5587.1	9860.8	12596.0	12453.6	8645.2
66°	1162.5	1168.9	1319.7	1523.8	2038.0	2671.4	5255.6	9697.2	12700.1	12549.2	8539.0
67.5°	975.5	971.2	1060.5	1194.4	1530.1	2061.4	4666.9	9219.0	12576.8	12500.3	8199.0
70°	722.6	724.7	769.3	801.2	894.7	1141.2	3370.5	7997.1	11590.7	11586.5	7266.0
72.5°	535.5	541.9	575.9	582.3	558.9	618.4	1942.4	6360.7	9272.2	9274.3	5432.0
75°	401.7	412.3	422.9	427.2	405.9	391.0	877.7	4280.1	6099.3	6054.6	3075.1
77.5°	306.0	310.3	318.8	312.4	308.2	269.9	365.5	2086.9	3011.4	2743.6	996.7
80°	223.1	223.1	231.6	223.1	221.0	193.4	199.8	669.4	884.1	735.3	214.6
82.5°	140.3	138.1	144.5	142.4	138.1	123.3	116.9	187.0	204.0	182.8	104.1
85°	78.6	76.5	74.4	72.3	65.9	55.3	63.8	70.1	93.5	95.6	74.4
87.5°	27.6	27.6	25.5	23.4	19.1	19.1	23.4	23.4	34.0	34.0	38.3
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°	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1	1292.1
2.5°	1300.6	1277.2	1243.2	1198.6	1166.7	1134.8	1100.8	1081.7	1054.1	1047.7	1056.2
5°	1324.0	1281.5	1196.5	1103.0	1022.2	950.0	882.0	841.6	801.2	786.3	792.7
7.5°	1372.9	1300.6	1156.1	1005.2	871.3	762.9	682.2	635.4	599.3	584.4	588.7
10°	1445.1	1334.6	1117.8	894.7	722.6	607.8	539.8	510.0	488.8	480.3	482.4
12.5°	1532.3	1383.5	1069.0	784.2	595.1	495.2	463.3	456.9	452.7	448.4	450.5
15°	1630.0	1426.0	1011.6	675.8	495.2	439.9	429.3	427.2	425.0	425.0	425.0
17.5°	1732.0	1464.3	947.8	573.8	431.4	405.9	399.5	399.5	399.5	401.7	401.7
20°	1827.7	1494.0	873.4	482.4	395.3	374.0	369.8	369.8	371.9	374.0	374.0
22.5°	1921.2	1506.8	786.3	418.7	365.5	346.4	340.0	340.0	340.0	342.2	342.2
25°	2001.9	1506.8	699.2	378.3	340.0	320.9	312.4	310.3	312.4	312.4	312.4
27.5°	2069.9	1500.4	614.2	350.7	314.5	295.4	286.9	284.8	289.0	291.1	291.1
30°	2142.2	1491.9	546.2	325.2	293.3	274.1	265.6	265.6	272.0	280.5	280.5
32.5°	2212.3	1498.3	493.0	303.9	272.0	257.1	248.6	250.8	263.5	276.3	276.3
35°	2286.7	1511.0	461.2	289.0	257.1	242.3	235.9	242.3	255.0	267.8	267.8
37.5°	2361.1	1525.9	442.0	276.3	244.4	229.5	225.3	233.8	248.6	261.4	263.5
40°	2439.7	1538.6	420.8	263.5	235.9	218.9	216.8	225.3	244.4	257.1	259.3
42.5°	2537.5	1564.1	395.3	252.9	227.4	206.1	208.3	214.6	233.8	252.9	255.0
45°	2728.7	1644.9	369.8	242.3	216.8	199.8	195.5	199.8	221.0	242.3	246.5
47.5°	3087.9	1827.7	342.2	231.6	206.1	195.5	178.5	182.8	201.9	225.3	227.4
50°	3776.4	2216.6	327.3	221.0	197.6	180.6	161.5	161.5	176.4	197.6	197.6
52.5°	4849.7	2913.6	335.8	212.5	187.0	165.8	146.6	144.5	153.0	167.9	167.9
55°	6007.9	3678.7	367.7	204.0	174.3	157.3	136.0	125.4	131.8	140.3	140.3
57.5°	6926.0	4063.3	454.8	199.8	159.4	150.9	123.3	108.4	114.8	123.3	123.3
60°	7329.8	3838.1	552.5	204.0	148.8	140.3	110.5	95.6	106.3	114.8	116.9
62.5°	7002.5	3160.1	592.9	193.4	133.9	125.4	108.4	89.3	102.0	108.4	110.5
65°	6294.8	2401.5	463.3	167.9	123.3	108.4	97.8	85.0	95.6	102.0	102.0
66°	5959.0	2093.3	395.3	155.1	119.0	102.0	93.5	85.0	93.5	97.8	99.9
67.5°	5438.3	1651.3	293.3	136.0	110.5	93.5	87.1	80.8	89.3	93.5	93.5
70°	4252.5	984.0	176.4	106.3	95.6	82.9	78.6	74.4	80.8	82.9	82.9
72.5°	2662.9	467.5	112.6	78.6	80.8	78.6	65.9	70.1	72.3	74.4	74.4
75°	1290.0	184.9	76.5	57.4	65.9	74.4	53.1	61.6	63.8	68.0	65.9
77.5°	359.2	89.3	48.9	42.5	57.4	57.4	40.4	48.9	57.4	72.3	65.9
80°	104.1	57.4	31.9	31.9	40.4	40.4	27.6	34.0	38.3	42.5	44.6
82.5°	72.3	38.3	21.3	23.4	23.4	25.5	17.0	17.0	21.3	21.3	23.4
85°	57.4	17.0	12.8	14.9	10.6	12.8	8.5	8.5	10.6	8.5	8.5
87.5°	23.4	8.5	8.5	8.5	6.4	6.4	4.3	2.1	2.1	2.1	2.1
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)