

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: P1210532

Luminaire Tested: **ARCH3-150-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210532
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: ARCH3-150-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 1170mA 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: 15572 lumens
Efficiency: N/A
Efficacy: 103.3 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

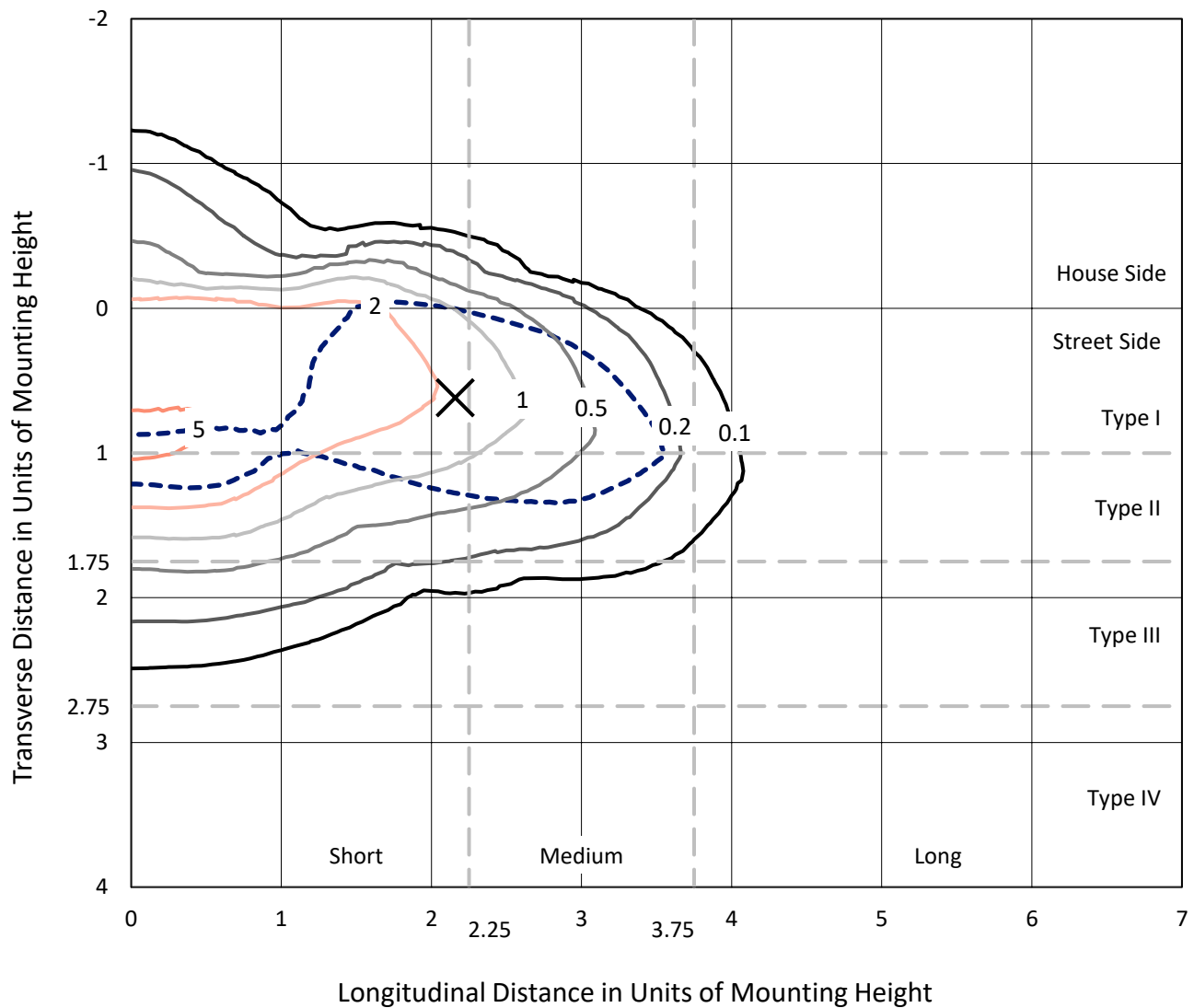
Input Watts (W): 150.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

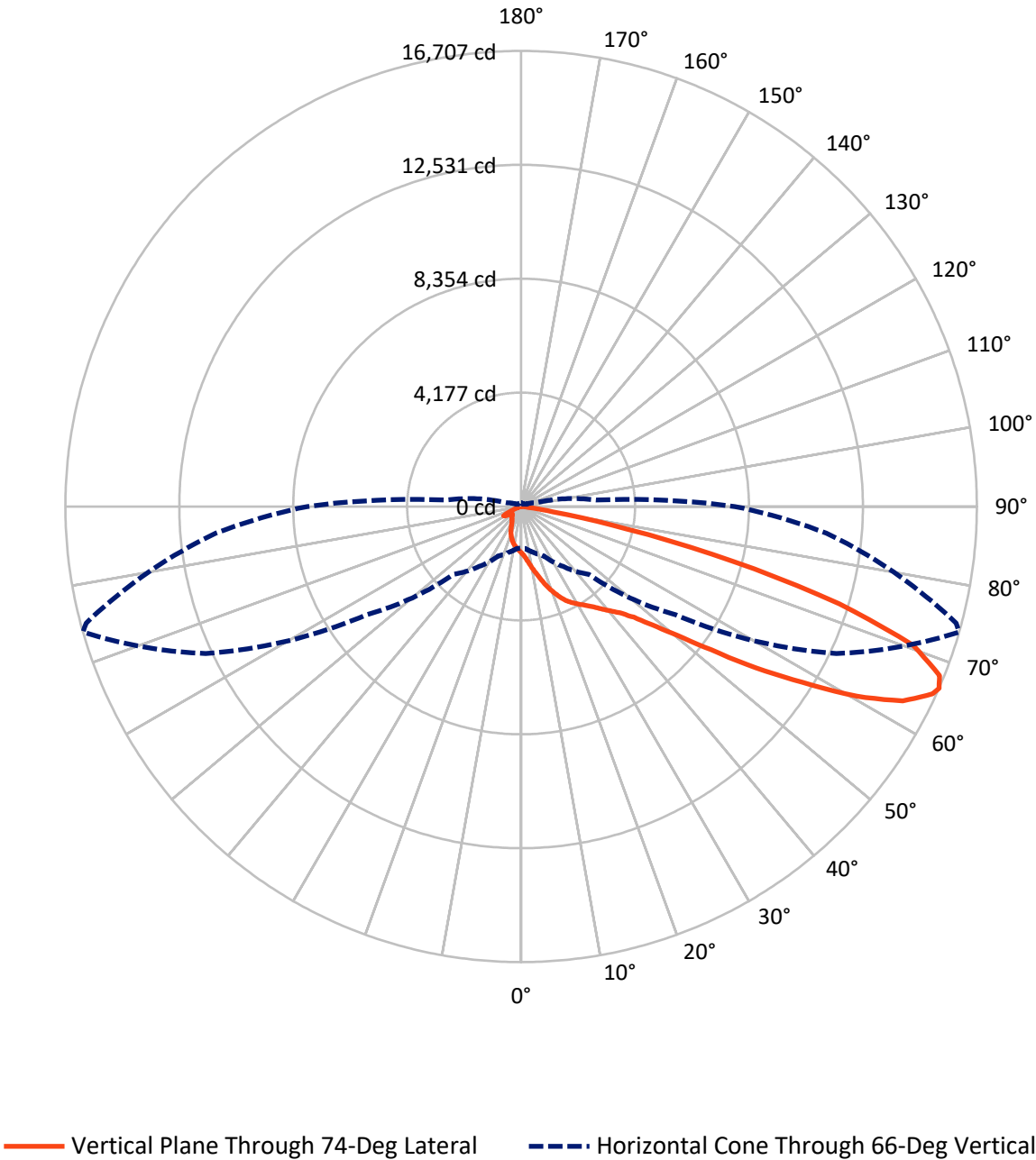
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	1526.6	0.0	1526.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	14045.5	0.0	14045.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	15572.0	0.0	15572.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.9	1.1
10°-20°	531.9	3.4
20°-30°	1015.1	6.5
30°-40°	1779.2	11.4
40°-50°	3050.8	19.6
50°-60°	3967.9	25.5
60°-70°	3591.9	23.1
70°-80°	1385.9	8.9
80°-90°	83.4	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°	15572.0	100.0
0°-180°	15572.0	100.0

Coefficient of Utilization



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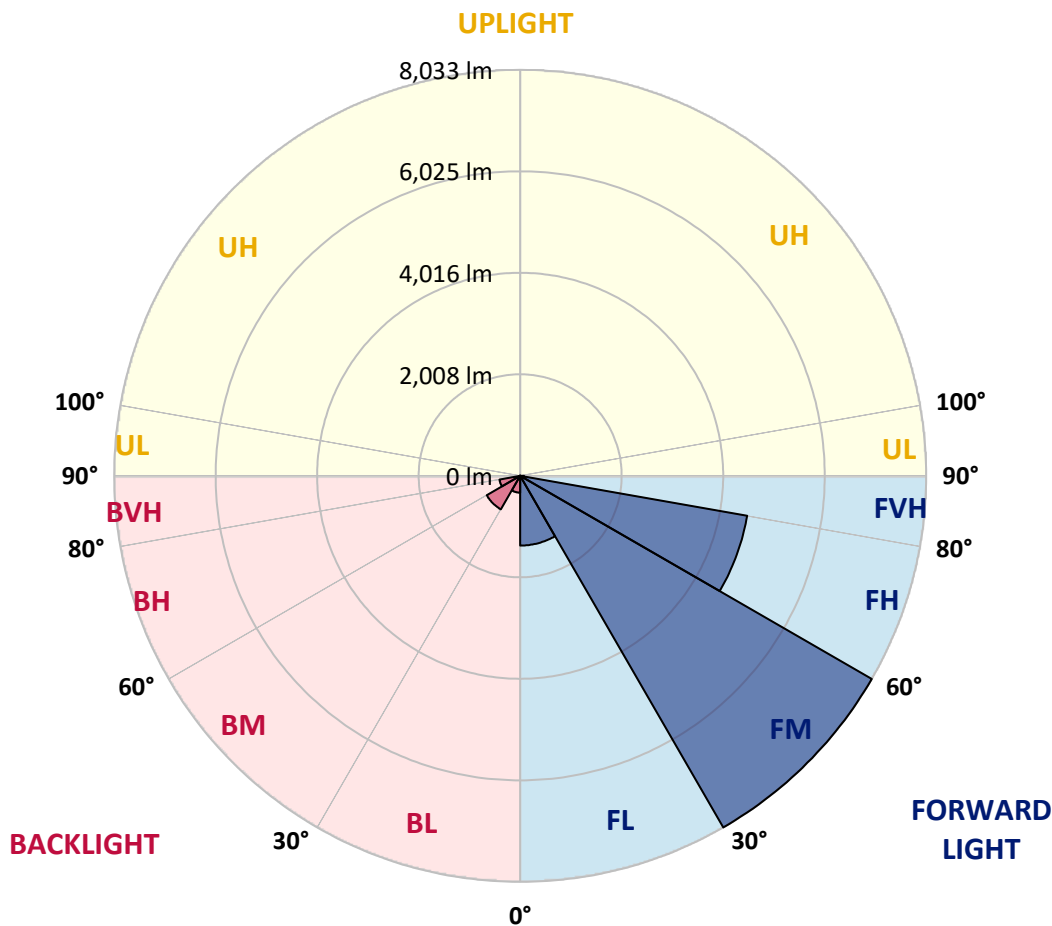
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1379.9	8.9			
FM	(30°-60°)	8032.8	51.6			
FH	(60°-80°)	4560.5	29.3			G2/5000
FVH	(80°-90°)	72.2	0.5			G1/100
BL	(0°-30°)	333.0	2.1	B1/500		
BM	(30°-60°)	765.1	4.9	B1/1000		
BH	(60°-80°)	417.3	2.7	B1/500		G1/500
BVH	(80°-90°)	11.2	0.1			G1/100
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°	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8
2.5°	2040.9	2024.1	1993.4	1990.6	1965.4	1934.7	1881.5	1825.6	1786.5	1780.9	1733.4
5°	2443.5	2435.1	2404.3	2384.8	2337.3	2264.6	2141.5	2018.5	1915.1	1903.9	1797.7
7.5°	2549.7	2555.3	2560.9	2580.5	2563.7	2530.2	2437.9	2264.6	2102.4	2077.2	1892.7
10°	2566.5	2560.9	2560.9	2586.1	2633.6	2681.1	2669.9	2521.8	2312.1	2281.3	2024.1
12.5°	2748.2	2756.6	2737.0	2725.9	2717.5	2742.6	2826.5	2762.2	2533.0	2507.8	2183.5
15°	2983.1	2980.3	2952.3	2952.3	2927.2	2885.2	2938.3	2985.9	2798.5	2767.8	2365.2
17.5°	3153.6	3164.8	3162.0	3178.8	3170.4	3114.5	3086.5	3184.4	3072.5	3033.4	2572.1
20°	3290.6	3321.4	3332.5	3385.7	3410.8	3371.7	3299.0	3360.5	3335.3	3299.0	2781.8
22.5°	3436.0	3461.1	3480.7	3573.0	3642.9	3634.5	3542.2	3528.2	3589.7	3556.2	2988.7
25°	3581.4	3592.5	3651.3	3763.1	3874.9	3902.9	3807.8	3698.8	3819.0	3788.2	3173.2
27.5°	3740.7	3746.3	3816.2	3953.2	4109.8	4168.5	4093.0	3891.7	3995.1	3995.1	3340.9
30°	4031.5	4087.4	4115.3	4238.4	4375.4	4456.4	4367.0	4095.8	4151.7	4176.9	3517.1
32.5°	4657.7	4666.1	4657.7	4710.8	4738.8	4786.3	4682.9	4325.0	4311.1	4339.0	3690.4
35°	5613.9	5580.3	5490.9	5412.6	5250.4	5161.0	5026.8	4618.6	4506.8	4545.9	3860.9
37.5°	6774.1	6726.6	6522.5	6282.1	5935.4	5577.5	5409.8	4976.4	4755.6	4805.9	4045.5
40°	7881.2	7850.5	7607.2	7310.9	6718.2	6105.9	5750.9	5278.4	5032.4	5051.9	4232.8
42.5°	8792.6	8787.1	8583.0	8272.6	7512.2	6676.3	6153.5	5574.7	5323.1	5353.9	4428.5
45°	9483.2	9430.1	9279.1	9055.4	8281.0	7269.0	6639.9	6024.8	5790.0	5826.4	4722.0
47.5°	9483.2	9491.6	9589.4	9567.1	8817.8	7825.3	7171.1	6592.4	6480.6	6514.1	5205.7
50°	8711.6	8789.9	9226.0	9592.2	9097.4	8258.7	7744.2	7302.5	7417.1	7467.5	6050.0
52.5°	7185.1	7316.5	8074.1	8910.1	8890.5	8476.7	8336.9	8205.5	8720.0	8809.4	7296.9
55°	5460.1	5546.8	6533.7	7632.4	7990.3	8297.8	8854.2	9351.8	10444.9	10425.4	8563.4
57.5°	4079.0	4160.1	5010.0	6228.9	6701.4	7523.4	9119.7	10663.0	12155.9	12231.4	9751.6
60°	2999.8	3061.4	3785.5	4786.3	5468.5	6338.0	9013.5	11954.6	14126.9	14040.3	10800.0
62.5°	2219.8	2253.4	2776.2	3427.6	4333.4	5163.8	8345.3	12838.1	15701.0	15524.8	11384.3
65°	1716.6	1727.8	1999.0	2345.6	3150.8	4014.7	7350.0	12972.3	16570.4	16383.1	11373.1
66°	1529.3	1537.7	1736.2	2004.6	2681.1	3514.3	6913.9	12757.0	16707.4	16508.9	11233.3
67.5°	1283.3	1277.7	1395.1	1571.2	2012.9	2711.9	6139.5	12128.0	16545.3	16444.6	10786.0
70°	950.6	953.4	1012.1	1054.0	1177.0	1501.3	4434.1	10520.4	15248.0	15242.5	9558.7
72.5°	704.5	712.9	757.6	766.0	735.3	813.6	2555.3	8367.7	12197.9	12200.7	7145.9
75°	528.4	542.4	556.4	561.9	534.0	514.4	1154.6	5630.6	8023.8	7965.1	4045.5
77.5°	402.6	408.2	419.4	411.0	405.4	355.1	480.9	2745.4	3961.6	3609.3	1311.2
80°	293.6	293.6	304.7	293.6	290.8	254.4	262.8	880.7	1163.0	967.3	282.4
82.5°	184.5	181.7	190.1	187.3	181.7	162.2	153.8	246.0	268.4	240.4	137.0
85°	103.4	100.6	97.9	95.1	86.7	72.7	83.9	92.3	123.0	125.8	97.9
87.5°	36.3	36.3	33.5	30.8	25.2	25.2	30.8	30.8	44.7	44.7	50.3
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°	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8	1699.8
2.5°	1711.0	1680.2	1635.5	1576.8	1534.9	1492.9	1448.2	1423.0	1386.7	1378.3	1389.5
5°	1741.8	1685.8	1574.0	1451.0	1344.8	1249.7	1160.2	1107.1	1054.0	1034.4	1042.8
7.5°	1806.1	1711.0	1520.9	1322.4	1146.3	1003.7	897.4	835.9	788.4	768.8	774.4
10°	1901.1	1755.7	1470.6	1177.0	950.6	799.6	710.1	671.0	643.0	631.8	634.6
12.5°	2015.7	1820.0	1406.3	1031.6	782.8	651.4	609.5	601.1	595.5	589.9	592.7
15°	2144.3	1876.0	1330.8	889.0	651.4	578.7	564.7	561.9	559.2	559.2	559.2
17.5°	2278.5	1926.3	1246.9	754.9	567.5	534.0	525.6	525.6	525.6	528.4	528.4
20°	2404.3	1965.4	1149.1	634.6	520.0	492.1	486.5	486.5	489.3	492.1	492.1
22.5°	2527.4	1982.2	1034.4	550.8	480.9	455.7	447.3	447.3	447.3	450.1	450.1
25°	2633.6	1982.2	919.8	497.6	447.3	422.2	411.0	408.2	411.0	411.0	411.0
27.5°	2723.1	1973.8	808.0	461.3	413.8	388.6	377.4	374.6	380.2	383.0	383.0
30°	2818.1	1962.6	718.5	427.8	385.8	360.7	349.5	349.5	357.9	369.0	369.0
32.5°	2910.4	1971.0	648.6	399.8	357.9	338.3	327.1	329.9	346.7	363.4	363.4
35°	3008.2	1987.8	606.7	380.2	338.3	318.7	310.3	318.7	335.5	352.3	352.3
37.5°	3106.1	2007.4	581.5	363.4	321.5	301.9	296.3	307.5	327.1	343.9	346.7
40°	3209.5	2024.1	553.6	346.7	310.3	288.0	285.2	296.3	321.5	338.3	341.1
42.5°	3338.1	2057.7	520.0	332.7	299.1	271.2	274.0	282.4	307.5	332.7	335.5
45°	3589.7	2163.9	486.5	318.7	285.2	262.8	257.2	262.8	290.8	318.7	324.3
47.5°	4062.2	2404.3	450.1	304.7	271.2	257.2	234.8	240.4	265.6	296.3	299.1
50°	4968.1	2916.0	430.5	290.8	260.0	237.6	212.5	212.5	232.0	260.0	260.0
52.5°	6379.9	3833.0	441.7	279.6	246.0	218.1	192.9	190.1	201.3	220.9	220.9
55°	7903.6	4839.5	483.7	268.4	229.3	206.9	178.9	164.9	173.3	184.5	184.5
57.5°	9111.4	5345.5	598.3	262.8	209.7	198.5	162.2	142.6	151.0	162.2	162.2
60°	9642.6	5049.1	726.9	268.4	195.7	184.5	145.4	125.8	139.8	151.0	153.8
62.5°	9212.0	4157.3	780.0	254.4	176.1	164.9	142.6	117.4	134.2	142.6	145.4
65°	8281.0	3159.2	609.5	220.9	162.2	142.6	128.6	111.8	125.8	134.2	134.2
66°	7839.3	2753.8	520.0	204.1	156.6	134.2	123.0	111.8	123.0	128.6	131.4
67.5°	7154.3	2172.3	385.8	178.9	145.4	123.0	114.6	106.2	117.4	123.0	123.0
70°	5594.3	1294.4	232.0	139.8	125.8	109.0	103.4	97.9	106.2	109.0	109.0
72.5°	3503.1	615.1	148.2	103.4	106.2	103.4	86.7	92.3	95.1	97.9	97.9
75°	1697.0	243.2	100.6	75.5	86.7	97.9	69.9	81.1	83.9	89.5	86.7
77.5°	472.5	117.4	64.3	55.9	75.5	75.5	53.1	64.3	75.5	95.1	86.7
80°	137.0	75.5	41.9	41.9	53.1	53.1	36.3	44.7	50.3	55.9	58.7
82.5°	95.1	50.3	28.0	30.8	30.8	33.5	22.4	22.4	28.0	28.0	30.8
85°	75.5	22.4	16.8	19.6	14.0	16.8	11.2	11.2	14.0	11.2	11.2
87.5°	30.8	11.2	11.2	11.2	8.4	8.4	5.6	2.8	2.8	2.8	2.8
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)