

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: P1210436

Luminaire Tested: **ARCH3-120-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210436
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: ARCH3-120-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 965mA 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: 13399 lumens
Efficiency: N/A
Efficacy: 109.2 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): 122.7
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

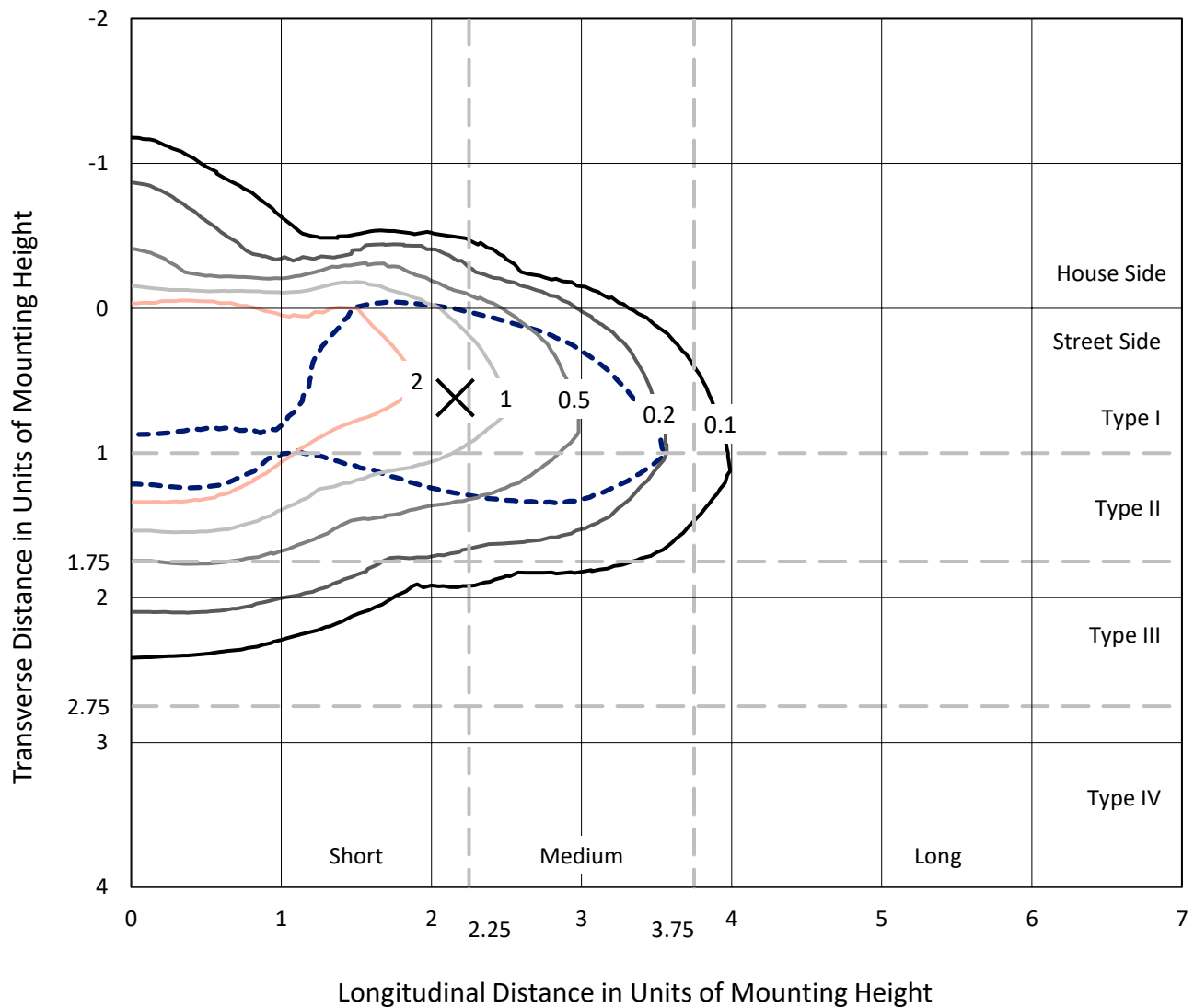


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Iso-Footcandle Lines of Horizontal Illumination

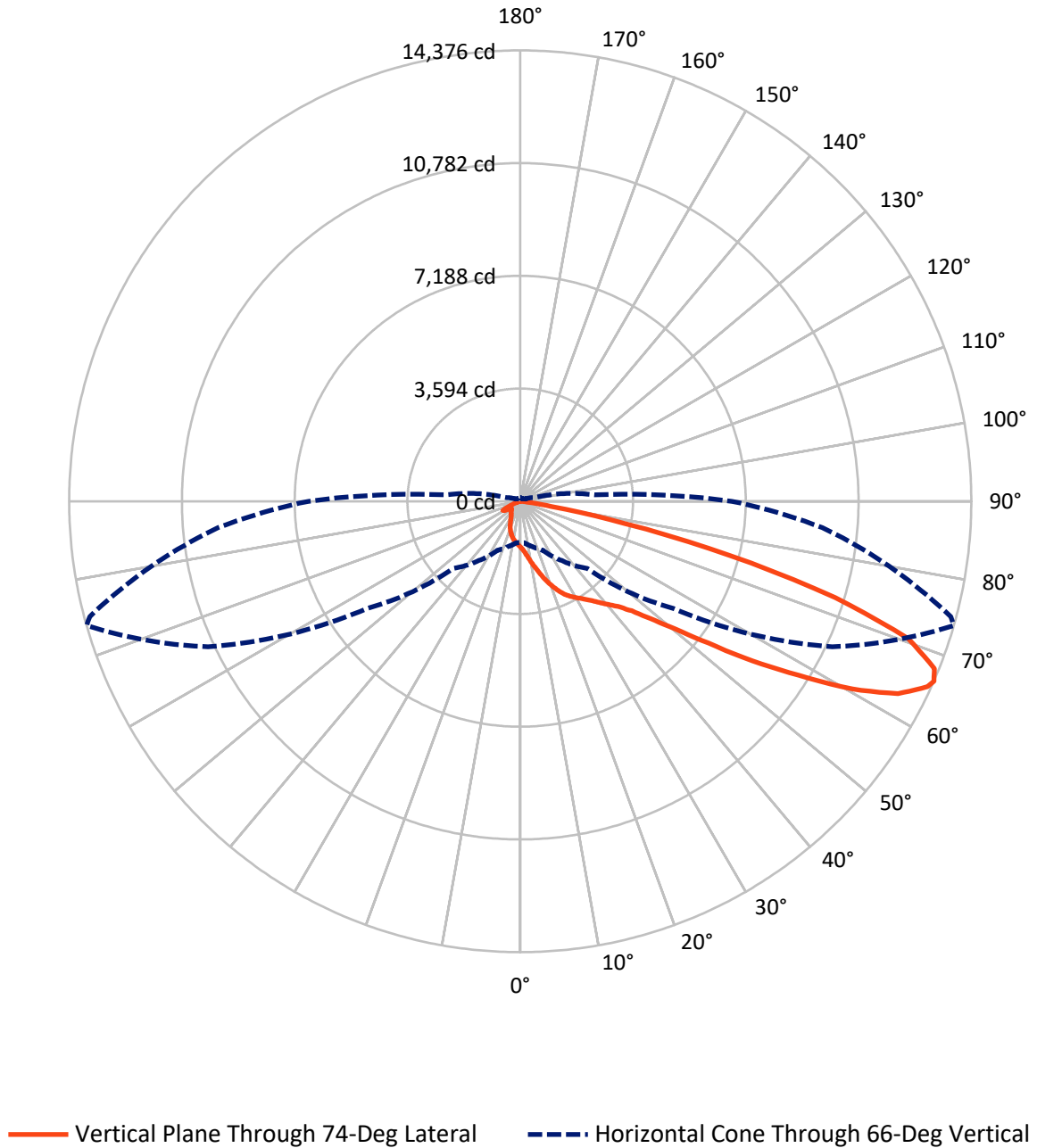
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	1313.5	0.0	1313.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	12085.5	0.0	12085.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	13399.0	0.0	13399.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.8	1.1
10°-20°	457.7	3.4
20°-30°	873.4	6.5
30°-40°	1530.9	11.4
40°-50°	2625.1	19.6
50°-60°	3414.2	25.5
60°-70°	3090.7	23.1
70°-80°	1192.5	8.9
80°-90°	71.8	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°	13399.0	100.0
0°-180°	13399.0	100.0

Coefficient of Utilization



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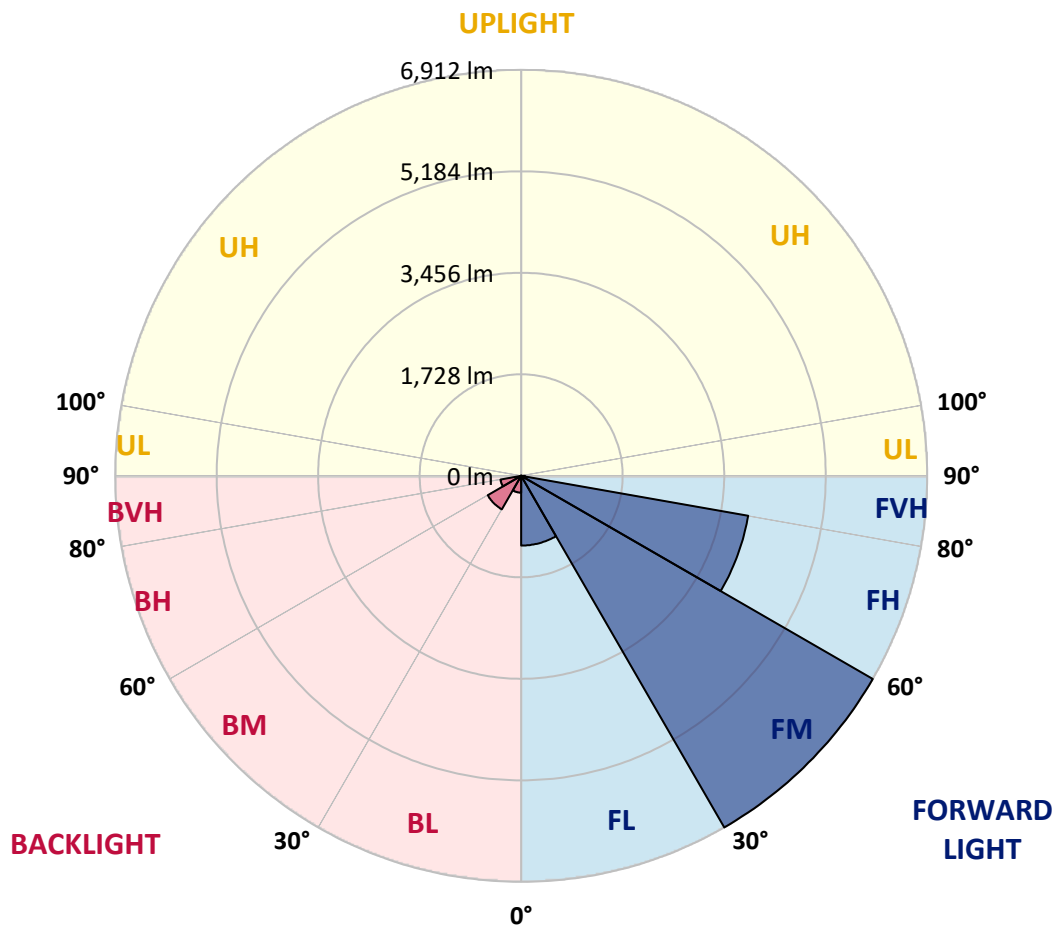
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1187.3	8.9			
FM	(30°-60°)	6911.9	51.6			
FH	(60°-80°)	3924.1	29.3			G2/5000
FVH	(80°-90°)	62.2	0.5			G1/100
BL	(0°-30°)	286.5	2.1	B1/500		
BM	(30°-60°)	658.3	4.9	B1/1000		
BH	(60°-80°)	359.1	2.7	B1/500		G1/500
BVH	(80°-90°)	9.6	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°	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6
2.5°	1756.1	1741.7	1715.2	1712.8	1691.2	1664.7	1619.0	1570.9	1537.2	1532.4	1491.5
5°	2102.5	2095.3	2068.8	2052.0	2011.1	1948.6	1842.7	1736.9	1647.8	1638.2	1546.8
7.5°	2193.9	2198.7	2203.5	2220.4	2206.0	2177.1	2097.7	1948.6	1809.0	1787.4	1628.6
10°	2208.4	2203.5	2203.5	2225.2	2266.1	2307.0	2297.4	2169.9	1989.4	1963.0	1741.7
12.5°	2364.7	2371.9	2355.1	2345.5	2338.3	2359.9	2432.1	2376.8	2179.5	2157.8	1878.8
15°	2566.8	2564.4	2540.3	2540.3	2518.7	2482.6	2528.3	2569.2	2408.0	2381.6	2035.2
17.5°	2713.5	2723.2	2720.8	2735.2	2728.0	2679.9	2655.8	2740.0	2643.8	2610.1	2213.2
20°	2831.4	2857.9	2867.5	2913.2	2934.9	2901.2	2838.6	2891.6	2869.9	2838.6	2393.6
22.5°	2956.5	2978.2	2995.0	3074.4	3134.5	3127.3	3047.9	3035.9	3088.8	3059.9	2571.6
25°	3081.6	3091.2	3141.7	3238.0	3334.2	3358.2	3276.5	3182.6	3286.1	3259.6	2730.4
27.5°	3218.7	3223.5	3283.7	3401.5	3536.3	3586.8	3521.8	3348.6	3437.6	3437.6	2874.7
30°	3468.9	3517.0	3541.1	3646.9	3764.8	3834.6	3757.6	3524.2	3572.3	3594.0	3026.3
32.5°	4007.8	4015.0	4007.8	4053.5	4077.5	4118.4	4029.4	3721.5	3709.5	3733.5	3175.4
35°	4830.5	4801.6	4724.6	4657.3	4517.8	4440.8	4325.3	3974.1	3877.9	3911.5	3322.2
37.5°	5828.8	5787.9	5612.3	5405.4	5107.1	4799.2	4654.9	4282.0	4092.0	4135.3	3480.9
40°	6781.4	6755.0	6545.7	6290.7	5780.7	5253.9	4948.4	4541.8	4330.1	4347.0	3642.1
42.5°	7565.7	7560.9	7385.3	7118.2	6463.9	5744.6	5294.8	4796.8	4580.3	4606.8	3810.5
45°	8159.9	8114.2	7984.3	7791.8	7125.4	6254.6	5713.3	5184.1	4982.0	5013.3	4063.1
47.5°	8159.9	8167.1	8251.3	8232.0	7587.3	6733.3	6170.4	5672.5	5576.2	5605.1	4479.3
50°	7495.9	7563.3	7938.5	8253.7	7827.9	7106.2	6663.6	6283.5	6382.1	6425.4	5205.8
52.5°	6182.4	6295.5	6947.4	7666.7	7649.9	7293.8	7173.6	7060.5	7503.1	7580.1	6278.7
55°	4698.2	4772.7	5621.9	6567.3	6875.3	7139.9	7618.6	8046.8	8987.4	8970.6	7368.4
57.5°	3509.8	3579.6	4310.9	5359.7	5766.3	6473.5	7847.1	9175.0	10459.6	10524.6	8390.8
60°	2581.2	2634.2	3257.2	4118.4	4705.4	5453.5	7755.7	10286.4	12155.6	12081.0	9292.9
62.5°	1910.1	1938.9	2388.8	2949.3	3728.7	4443.2	7180.8	11046.6	13510.0	13358.4	9795.7
65°	1477.1	1486.7	1720.0	2018.3	2711.1	3454.5	6324.4	11162.1	14258.1	14096.9	9786.1
66°	1315.9	1323.1	1493.9	1724.8	2307.0	3023.9	5949.1	10976.8	14376.0	14205.2	9665.8
67.5°	1104.2	1099.4	1200.4	1352.0	1732.0	2333.5	5282.7	10435.6	14236.5	14149.9	9280.9
70°	817.9	820.3	870.8	906.9	1012.8	1291.8	3815.3	9052.3	13120.2	13115.4	8224.8
72.5°	606.2	613.4	651.9	659.1	632.7	700.0	2198.7	7200.0	10495.7	10498.1	6148.8
75°	454.7	466.7	478.7	483.5	459.5	442.6	993.5	4844.9	6904.1	6853.6	3480.9
77.5°	346.4	351.2	360.8	353.6	348.8	305.5	413.8	2362.3	3408.8	3105.7	1128.2
80°	252.6	252.6	262.2	252.6	250.2	218.9	226.1	757.8	1000.7	832.3	243.0
82.5°	158.8	156.4	163.6	161.2	156.4	139.5	132.3	211.7	230.9	206.9	117.9
85°	89.0	86.6	84.2	81.8	74.6	62.5	72.2	79.4	105.8	108.3	84.2
87.5°	31.3	31.3	28.9	26.5	21.7	21.7	26.5	26.5	38.5	38.5	43.3
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°	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6	1462.6
2.5°	1472.2	1445.8	1407.3	1356.8	1320.7	1284.6	1246.1	1224.5	1193.2	1186.0	1195.6
5°	1498.7	1450.6	1354.4	1248.5	1157.1	1075.3	998.3	952.6	906.9	890.1	897.3
7.5°	1554.0	1472.2	1308.7	1137.9	986.3	863.6	772.2	719.3	678.4	661.5	666.4
10°	1635.8	1510.7	1265.4	1012.8	817.9	688.0	611.0	577.3	553.3	543.7	546.1
12.5°	1734.5	1566.1	1210.0	887.7	673.6	560.5	524.4	517.2	512.4	507.6	510.0
15°	1845.1	1614.2	1145.1	765.0	560.5	498.0	485.9	483.5	481.1	481.1	481.1
17.5°	1960.6	1657.5	1072.9	649.5	488.3	459.5	452.3	452.3	452.3	454.7	454.7
20°	2068.8	1691.2	988.7	546.1	447.4	423.4	418.6	418.6	421.0	423.4	423.4
22.5°	2174.7	1705.6	890.1	473.9	413.8	392.1	384.9	384.9	384.9	387.3	387.3
25°	2266.1	1705.6	791.4	428.2	384.9	363.2	353.6	351.2	353.6	353.6	353.6
27.5°	2343.1	1698.4	695.2	396.9	356.0	334.4	324.8	322.4	327.2	329.6	329.6
30°	2424.9	1688.7	618.2	368.1	332.0	310.3	300.7	300.7	307.9	317.5	317.5
32.5°	2504.2	1696.0	558.1	344.0	307.9	291.1	281.5	283.9	298.3	312.7	312.7
35°	2588.4	1710.4	522.0	327.2	291.1	274.2	267.0	274.2	288.7	303.1	303.1
37.5°	2672.6	1727.2	500.4	312.7	276.6	259.8	255.0	264.6	281.5	295.9	298.3
40°	2761.7	1741.7	476.3	298.3	267.0	247.8	245.4	255.0	276.6	291.1	293.5
42.5°	2872.3	1770.5	447.4	286.3	257.4	233.3	235.8	243.0	264.6	286.3	288.7
45°	3088.8	1861.9	418.6	274.2	245.4	226.1	221.3	226.1	250.2	274.2	279.1
47.5°	3495.4	2068.8	387.3	262.2	233.3	221.3	202.1	206.9	228.5	255.0	257.4
50°	4274.8	2509.1	370.5	250.2	223.7	204.5	182.8	182.8	199.7	223.7	223.7
52.5°	5489.6	3298.1	380.1	240.6	211.7	187.6	166.0	163.6	173.2	190.0	190.0
55°	6800.7	4164.1	416.2	230.9	197.3	178.0	154.0	141.9	149.1	158.8	158.8
57.5°	7839.9	4599.5	514.8	226.1	180.4	170.8	139.5	122.7	129.9	139.5	139.5
60°	8297.0	4344.5	625.5	230.9	168.4	158.8	125.1	108.3	120.3	129.9	132.3
62.5°	7926.5	3577.2	671.2	218.9	151.6	141.9	122.7	101.0	115.5	122.7	125.1
65°	7125.4	2718.4	524.4	190.0	139.5	122.7	110.7	96.2	108.3	115.5	115.5
66°	6745.4	2369.5	447.4	175.6	134.7	115.5	105.8	96.2	105.8	110.7	113.1
67.5°	6156.0	1869.2	332.0	154.0	125.1	105.8	98.6	91.4	101.0	105.8	105.8
70°	4813.6	1113.8	199.7	120.3	108.3	93.8	89.0	84.2	91.4	93.8	93.8
72.5°	3014.2	529.2	127.5	89.0	91.4	89.0	74.6	79.4	81.8	84.2	84.2
75°	1460.2	209.3	86.6	65.0	74.6	84.2	60.1	69.8	72.2	77.0	74.6
77.5°	406.5	101.0	55.3	48.1	65.0	65.0	45.7	55.3	65.0	81.8	74.6
80°	117.9	65.0	36.1	36.1	45.7	45.7	31.3	38.5	43.3	48.1	50.5
82.5°	81.8	43.3	24.1	26.5	26.5	28.9	19.2	19.2	24.1	24.1	26.5
85°	65.0	19.2	14.4	16.8	12.0	14.4	9.6	9.6	12.0	9.6	9.6
87.5°	26.5	9.6	9.6	9.6	7.2	7.2	4.8	2.4	2.4	2.4	2.4
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)