

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: P1211594

Luminaire Tested: **ARCH4-50-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

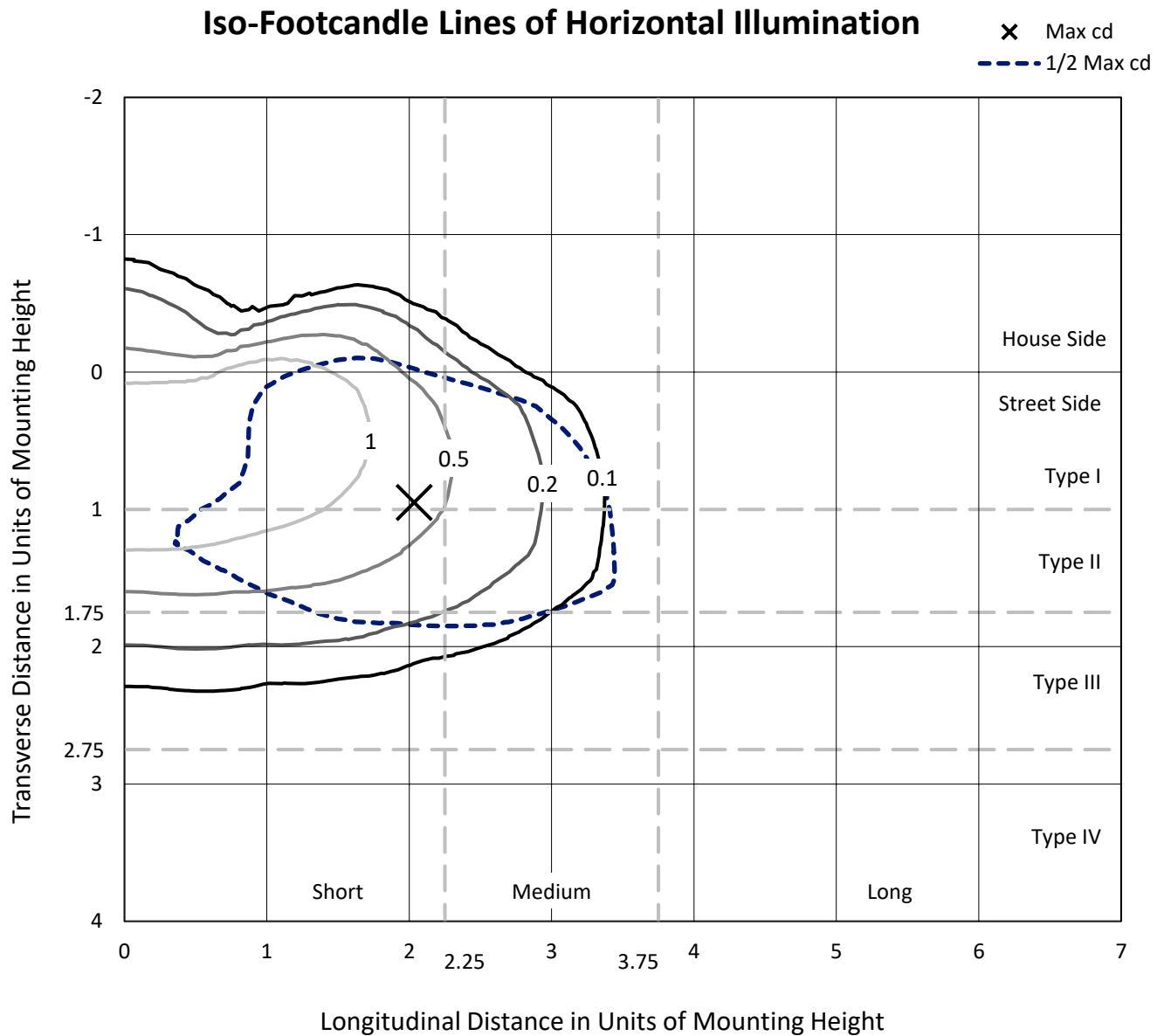
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6740 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 53.2
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



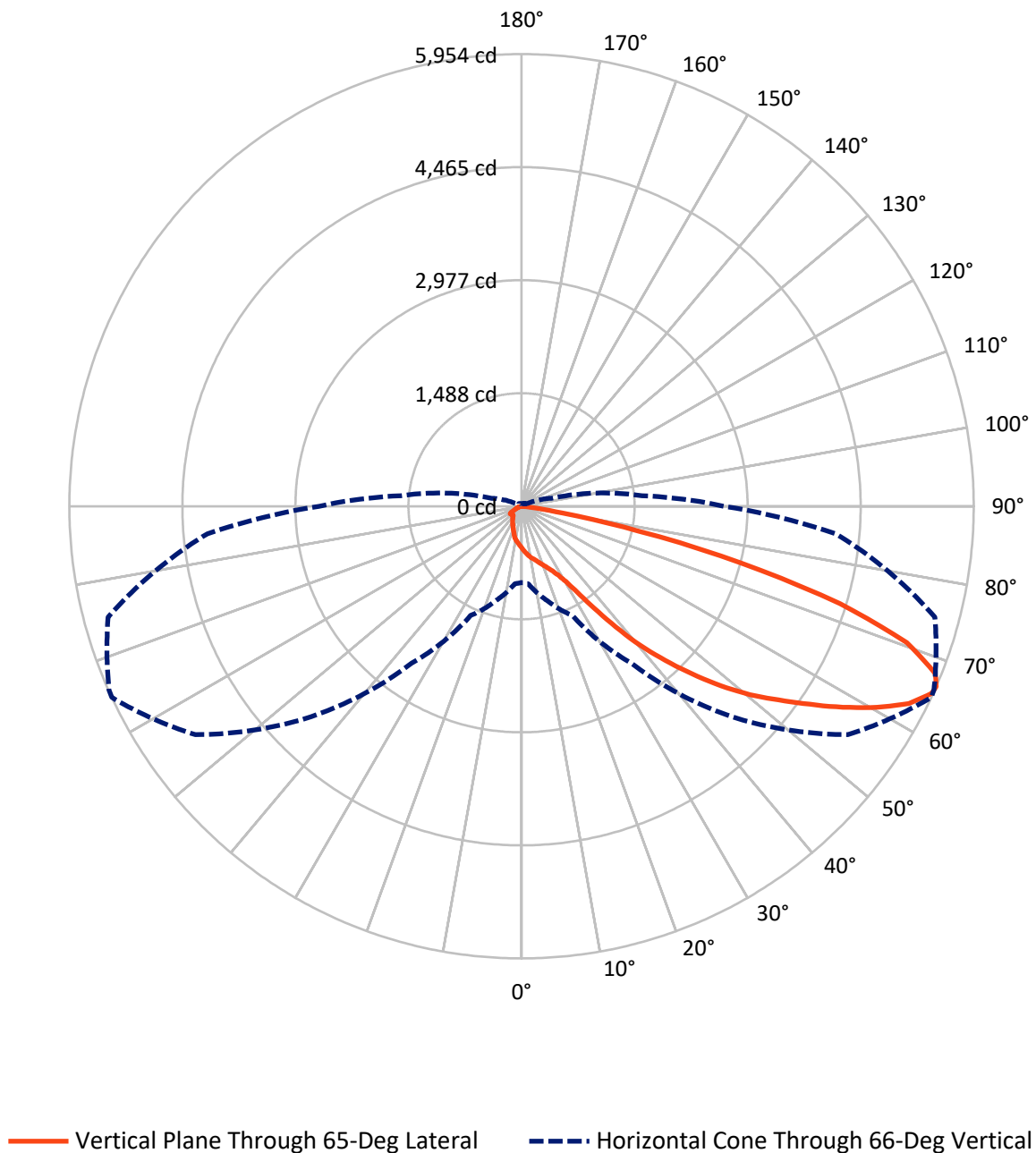
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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	795.5	0.0	795.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	5944.5	0.0	5944.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	6740.0	0.0	6740.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	0.8
10°-20°	154.1	2.3
20°-30°	282.1	4.2
30°-40°	573.1	8.5
40°-50°	1210.3	18.0
50°-60°	1860.7	27.6
60°-70°	1872.9	27.8
70°-80°	699.8	10.4
80°-90°	35.0	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°	6740.0	100.0
0°-180°	6740.0	100.0

Coefficient of Utilization



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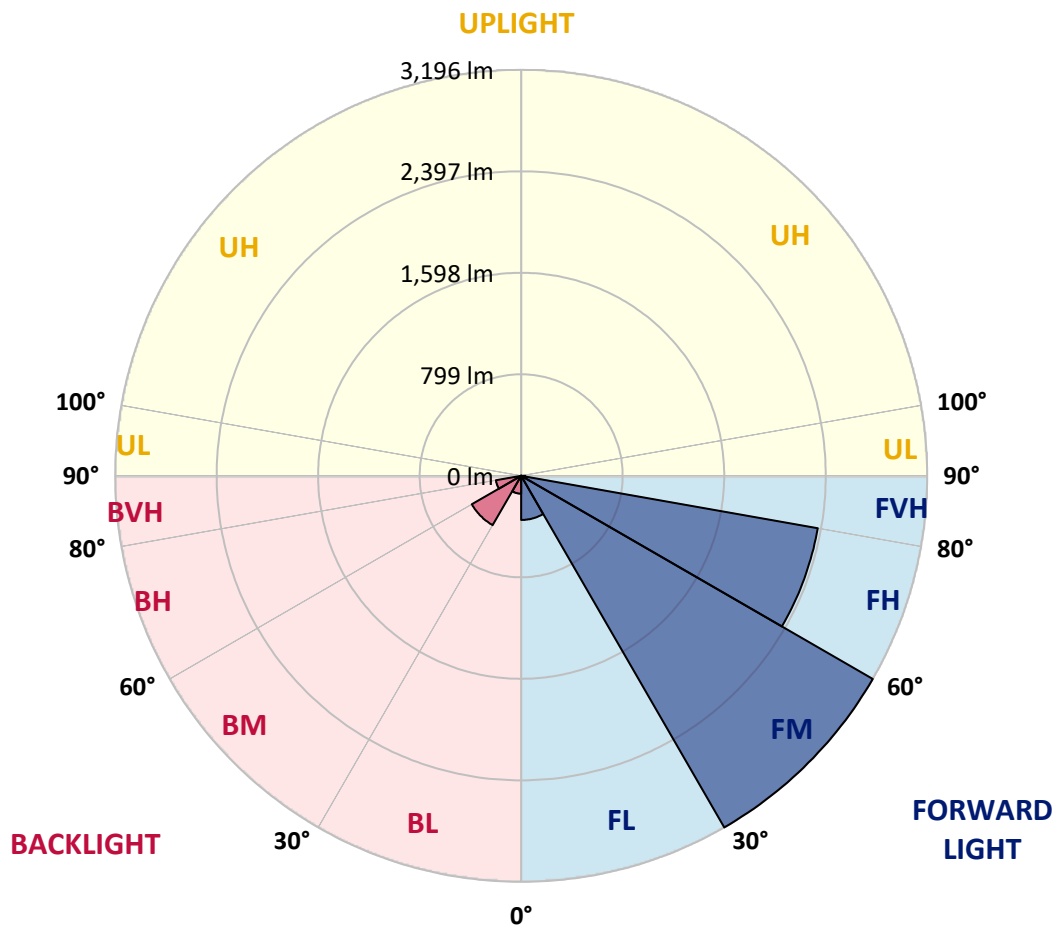
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.4	5.2			
FM	(30°-60°)	3195.6	47.4			
FH	(60°-80°)	2370.6	35.2			G2/5000
FVH	(80°-90°)	30.8	0.5			G1/100
BL	(0°-30°)	140.8	2.1	B1/500		
BM	(30°-60°)	448.5	6.7	B1/1000		
BH	(60°-80°)	202.1	3.0	B1/500		G1/500
BVH	(80°-90°)	4.1	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1
2.5°	626.2	627.4	624.9	620.1	615.2	609.0	599.3	583.4	580.9	569.9	557.7
5°	669.0	671.4	667.7	666.5	664.1	655.5	642.1	618.8	616.4	594.4	566.2
7.5°	683.6	687.3	684.9	684.9	684.9	681.2	675.1	654.3	650.6	622.5	579.7
10°	694.7	697.1	695.9	700.8	704.4	702.0	698.3	686.1	682.4	654.3	598.0
12.5°	711.8	713.0	714.2	716.7	722.8	725.2	724.0	713.0	710.6	691.0	621.3
15°	727.7	727.7	728.9	739.9	748.5	753.4	754.6	746.0	743.6	727.7	650.6
17.5°	742.4	743.6	747.2	759.5	774.1	783.9	790.0	786.4	782.7	770.5	684.9
20°	764.4	766.8	770.5	787.6	802.3	818.2	830.4	829.2	828.0	819.4	725.2
22.5°	802.3	804.7	810.8	826.7	841.4	861.0	881.8	880.5	876.9	870.8	772.9
25°	859.8	859.8	863.4	876.9	895.2	918.5	938.0	941.7	938.0	934.4	832.9
27.5°	931.9	933.1	933.1	947.8	964.9	994.3	1018.7	1022.4	1022.4	1018.7	913.6
30°	1032.2	1028.5	1026.1	1038.3	1056.7	1099.5	1142.3	1149.6	1145.9	1152.1	1027.3
32.5°	1204.6	1198.5	1177.7	1180.2	1191.2	1249.9	1322.0	1347.7	1346.5	1357.5	1210.8
35°	1443.1	1430.9	1400.3	1374.6	1373.4	1437.0	1547.1	1643.7	1642.5	1680.4	1489.6
37.5°	1712.2	1728.1	1670.6	1626.6	1613.1	1663.3	1805.1	2014.3	2025.3	2091.3	1855.3
40°	2071.7	2081.5	2008.1	1945.8	1882.2	1900.5	2087.6	2412.9	2432.5	2505.9	2220.9
42.5°	2384.8	2394.6	2351.8	2276.0	2195.3	2161.0	2372.6	2775.0	2790.9	2892.4	2597.6
45°	2597.6	2605.0	2619.6	2627.0	2535.2	2464.3	2721.1	3146.7	3166.3	3283.7	2965.7
47.5°	2763.9	2770.1	2799.4	2872.8	2854.4	2798.2	3075.8	3533.2	3538.1	3669.0	3324.1
50°	2841.0	2855.7	2927.8	3040.3	3121.1	3137.0	3461.0	3898.9	3912.3	4037.1	3662.8
52.5°	2755.4	2760.3	2942.5	3154.1	3316.7	3478.2	3847.5	4237.6	4276.8	4369.7	3967.4
55°	2466.8	2502.2	2778.6	3150.4	3470.8	3802.3	4260.9	4603.3	4638.8	4697.5	4235.2
57.5°	2131.7	2170.8	2507.1	2992.6	3536.9	4101.9	4643.7	4992.2	5016.7	5032.6	4481.0
60°	1841.8	1878.5	2224.6	2690.6	3470.8	4313.5	4999.6	5378.7	5399.5	5356.7	4604.5
62.5°	1485.9	1522.6	1871.2	2290.7	3211.6	4356.3	5263.7	5722.3	5730.9	5614.7	4528.7
65°	1120.3	1144.7	1435.8	1795.3	2757.8	4128.8	5323.7	5936.4	5927.8	5689.3	4301.2
66°	1004.1	1024.9	1281.7	1587.4	2521.8	3920.9	5242.9	5953.5	5944.9	5634.3	4152.0
67.5°	865.9	872.0	1083.6	1298.8	2109.6	3479.4	4997.1	5875.2	5882.6	5482.6	3879.3
70°	676.3	675.1	797.4	903.8	1440.7	2475.3	4167.9	5382.4	5417.8	4910.3	3308.2
72.5°	432.9	418.3	489.2	552.8	839.0	1437.0	3039.1	4386.8	4446.8	3857.3	2464.3
75°	258.0	243.4	260.5	276.4	402.4	691.0	1786.8	2985.3	3042.8	2472.9	1466.4
77.5°	193.2	187.1	188.3	174.9	178.6	259.3	815.7	1577.7	1619.2	1012.6	556.5
80°	148.0	132.1	123.5	129.6	117.4	102.7	303.3	543.0	568.7	239.7	116.2
82.5°	99.1	85.6	79.5	86.8	74.6	57.5	73.4	105.2	102.7	64.8	45.3
85°	51.4	44.0	44.0	44.0	37.9	28.1	31.8	42.8	42.8	34.2	26.9
87.5°	14.7	13.5	15.9	14.7	11.0	11.0	12.2	14.7	14.7	13.5	12.2
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°	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1	549.1
2.5°	547.9	543.0	529.6	519.8	510.0	501.4	491.6	489.2	484.3	485.5	483.1
5°	551.6	538.1	514.9	492.9	475.7	461.1	442.7	435.4	425.6	421.9	419.5
7.5°	556.5	536.9	502.6	472.1	442.7	413.4	384.0	366.9	355.9	351.0	347.3
10°	567.5	541.8	496.5	448.8	398.7	357.1	327.8	315.5	308.2	307.0	305.7
12.5°	582.1	549.1	490.4	419.5	353.4	314.3	296.0	292.3	291.1	291.1	289.8
15°	604.2	561.4	480.6	385.2	318.0	291.1	282.5	276.4	273.9	273.9	273.9
17.5°	626.2	576.0	466.0	349.8	293.5	276.4	267.8	264.2	261.7	262.9	261.7
20°	654.3	593.1	446.4	319.2	277.6	264.2	255.6	251.9	250.7	250.7	250.7
22.5°	686.1	612.7	421.9	296.0	264.2	251.9	243.4	239.7	237.3	238.5	238.5
25°	728.9	637.2	396.2	272.7	250.7	239.7	229.9	225.0	225.0	226.3	227.5
27.5°	783.9	666.5	370.6	258.0	238.5	227.5	216.5	211.6	212.8	215.2	215.2
30°	864.7	706.9	344.9	242.2	225.0	212.8	203.0	198.1	200.6	205.5	205.5
32.5°	979.6	772.9	322.9	223.8	205.5	192.0	182.2	178.6	184.7	194.5	194.5
35°	1185.1	894.0	309.4	205.5	184.7	168.8	156.5	152.9	161.4	173.7	173.7
37.5°	1460.2	1088.5	314.3	189.6	167.5	149.2	135.8	130.9	137.0	148.0	151.7
40°	1767.2	1323.3	357.1	176.1	151.7	133.3	119.9	115.0	118.6	123.5	124.7
42.5°	2074.2	1572.8	437.8	166.3	139.4	119.9	107.6	104.0	106.4	107.6	108.8
45°	2379.9	1819.8	539.3	160.2	128.4	108.8	96.6	96.6	97.8	97.8	97.8
47.5°	2669.8	2060.7	645.7	159.0	118.6	97.8	88.1	89.3	89.3	90.5	90.5
50°	2943.7	2276.0	753.4	162.7	110.1	88.1	80.7	80.7	80.7	81.9	80.7
52.5°	3172.4	2464.3	865.9	168.8	101.5	80.7	73.4	73.4	73.4	74.6	73.4
55°	3388.9	2635.5	980.8	177.3	94.2	74.6	67.3	64.8	64.8	66.0	64.8
57.5°	3565.0	2749.3	1089.7	178.6	88.1	68.5	62.4	58.7	58.7	58.7	58.7
60°	3572.3	2683.2	1121.5	156.5	80.7	62.4	56.3	51.4	52.6	52.6	52.6
62.5°	3338.7	2335.9	901.3	117.4	72.2	56.3	51.4	46.5	46.5	46.5	46.5
65°	2880.1	1817.4	528.3	92.9	62.4	50.1	45.3	41.6	41.6	41.6	40.4
66°	2664.9	1593.5	404.8	84.4	58.7	48.9	44.0	40.4	39.1	37.9	37.9
67.5°	2313.9	1259.7	253.2	74.6	53.8	45.3	40.4	36.7	35.5	34.2	34.2
70°	1742.8	799.8	123.5	57.5	46.5	39.1	35.5	31.8	30.6	29.4	28.1
72.5°	1223.0	468.4	64.8	44.0	37.9	34.2	30.6	26.9	25.7	24.5	24.5
75°	691.0	226.3	42.8	31.8	30.6	28.1	25.7	22.0	20.8	20.8	20.8
77.5°	261.7	78.3	29.4	23.2	24.5	22.0	18.3	18.3	17.1	18.3	17.1
80°	68.5	34.2	18.3	17.1	18.3	15.9	13.5	14.7	14.7	14.7	14.7
82.5°	36.7	19.6	11.0	12.2	11.0	11.0	8.6	9.8	11.0	9.8	11.0
85°	25.7	9.8	6.1	6.1	4.9	4.9	3.7	4.9	6.1	4.9	4.9
87.5°	13.5	3.7	3.7	3.7	3.7	2.4	1.2	0.0	1.2	1.2	1.2
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)