

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: P1210426

Luminaire Tested: **ARCH3-120-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210426
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: ARCH3-120-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 965mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12182 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - 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



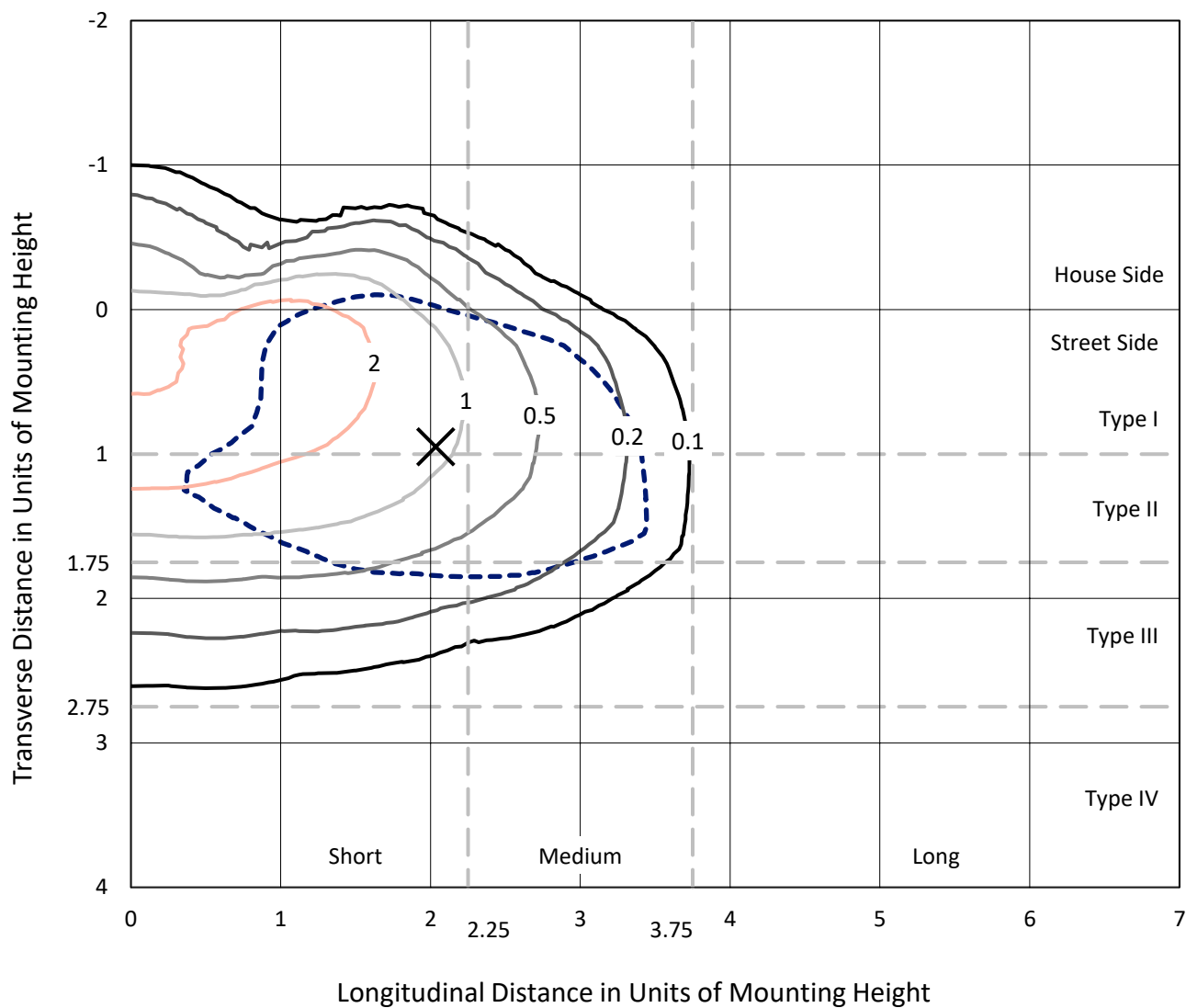
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

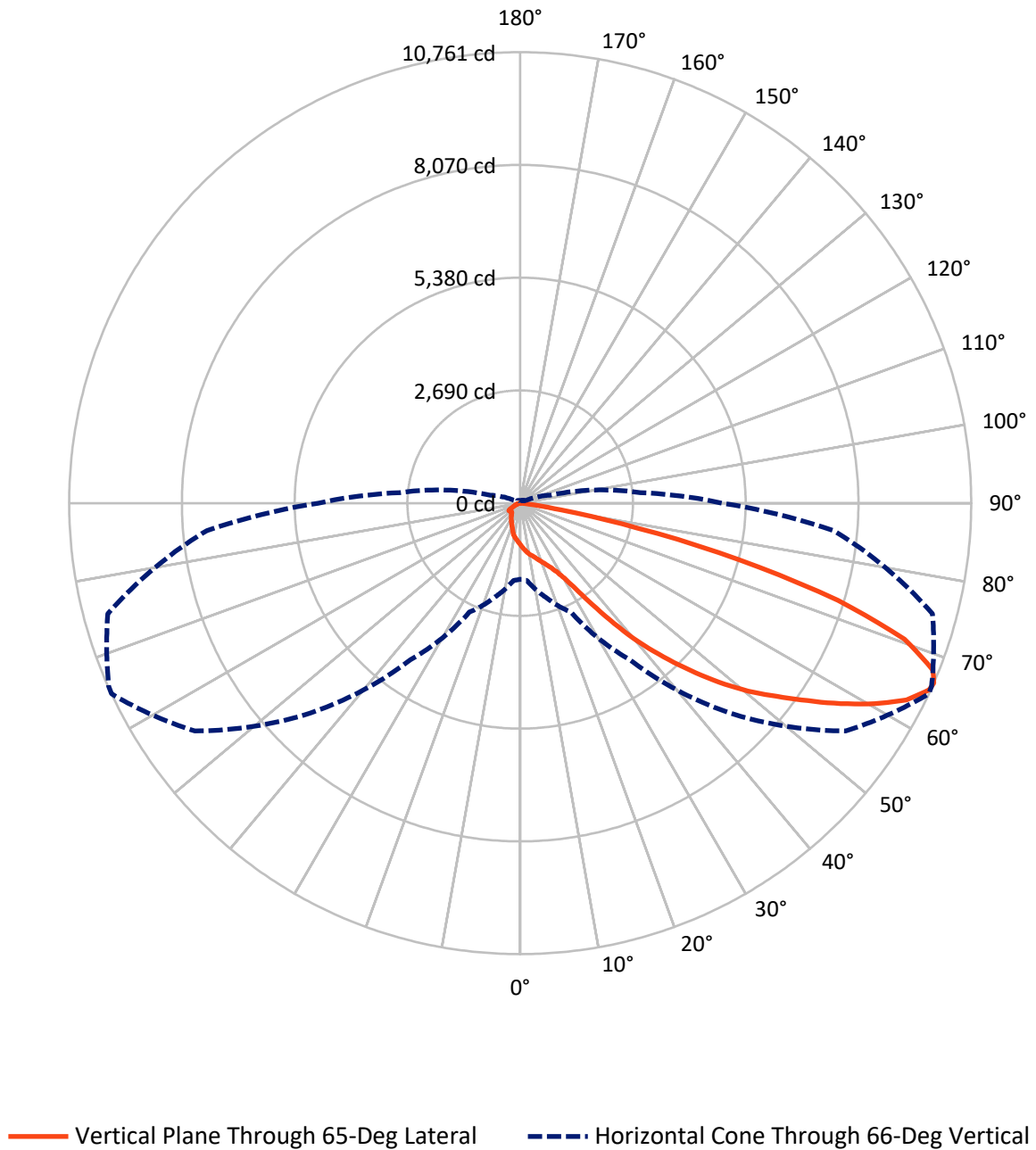
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	1437.7	0.0	1437.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10744.3	0.0	10744.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	12182.0	0.0	12182.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	0.8
10°-20°	278.5	2.3
20°-30°	509.8	4.2
30°-40°	1035.9	8.5
40°-50°	2187.6	18.0
50°-60°	3363.0	27.6
60°-70°	3385.1	27.8
70°-80°	1264.8	10.4
80°-90°	63.2	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°	12182.0	100.0
0°-180°	12182.0	100.0

Coefficient of Utilization



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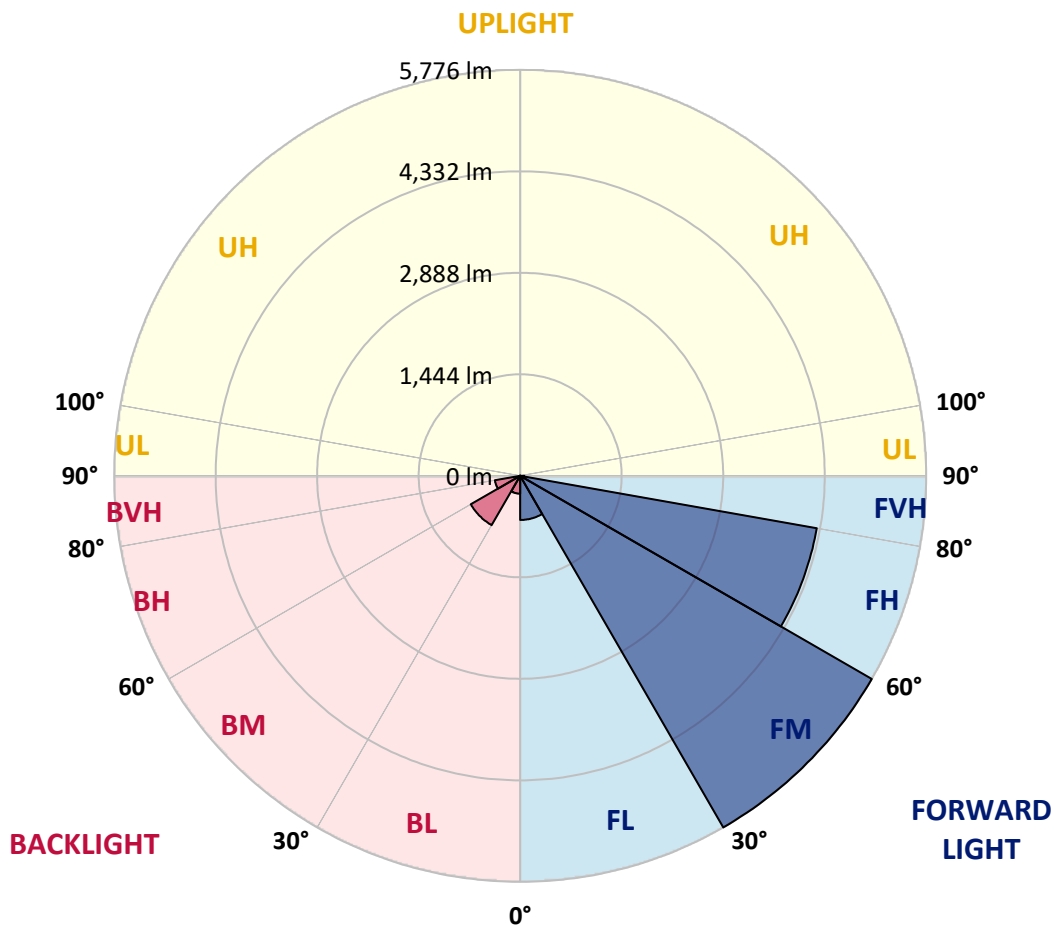
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	628.0	5.2			
FM	(30°-60°)	5775.8	47.4			
FH	(60°-80°)	4284.7	35.2			G2/5000
FVH	(80°-90°)	55.8	0.5			G1/100
BL	(0°-30°)	254.5	2.1	B1/500		
BM	(30°-60°)	810.6	6.7	B1/1000		
BH	(60°-80°)	365.2	3.0	B1/500		G1/500
BVH	(80°-90°)	7.4	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°	992.5	992.5	992.5	992.5	992.5	992.5	992.5	992.5	992.5	992.5	992.5
2.5°	1131.7	1134.0	1129.5	1120.7	1111.9	1100.8	1083.1	1054.4	1050.0	1030.1	1008.0
5°	1209.1	1213.5	1206.9	1204.7	1200.3	1184.8	1160.5	1118.5	1114.1	1074.3	1023.4
7.5°	1235.6	1242.3	1237.8	1237.8	1237.8	1231.2	1220.2	1182.6	1176.0	1125.1	1047.8
10°	1255.5	1260.0	1257.7	1266.6	1273.2	1268.8	1262.2	1240.1	1233.4	1182.6	1080.9
12.5°	1286.5	1288.7	1290.9	1295.3	1306.4	1310.8	1308.6	1288.7	1284.3	1248.9	1122.9
15°	1315.2	1315.2	1317.4	1337.3	1352.8	1361.6	1363.8	1348.4	1344.0	1315.2	1176.0
17.5°	1341.7	1344.0	1350.6	1372.7	1399.2	1416.9	1427.9	1421.3	1414.7	1392.6	1237.8
20°	1381.5	1385.9	1392.6	1423.5	1450.1	1478.8	1500.9	1498.7	1496.5	1481.0	1310.8
22.5°	1450.1	1454.5	1465.5	1494.3	1520.8	1556.2	1593.7	1591.5	1584.9	1573.8	1397.0
25°	1553.9	1553.9	1560.6	1584.9	1618.0	1660.0	1695.4	1702.0	1695.4	1688.8	1505.3
27.5°	1684.4	1686.6	1686.6	1713.1	1744.0	1797.1	1841.3	1847.9	1847.9	1841.3	1651.2
30°	1865.6	1859.0	1854.6	1876.7	1909.8	1987.2	2064.6	2077.8	2071.2	2082.2	1856.8
32.5°	2177.3	2166.2	2128.7	2133.1	2153.0	2259.1	2389.5	2435.9	2433.7	2453.6	2188.3
35°	2608.3	2586.2	2531.0	2484.5	2482.3	2597.3	2796.2	2970.8	2968.6	3037.2	2692.3
37.5°	3094.6	3123.4	3019.5	2939.9	2915.6	3006.2	3262.6	3640.6	3660.5	3779.9	3353.2
40°	3744.5	3762.2	3629.6	3516.8	3401.9	3435.0	3773.2	4361.2	4396.6	4529.2	4014.2
42.5°	4310.4	4328.1	4250.7	4113.6	3967.8	3905.9	4288.3	5015.5	5044.2	5227.7	4695.0
45°	4695.0	4708.2	4734.8	4748.0	4582.3	4454.0	4918.2	5687.5	5722.8	5935.0	5360.3
47.5°	4995.6	5006.7	5059.7	5192.3	5159.2	5057.5	5559.3	6386.0	6394.8	6631.3	6008.0
50°	5134.9	5161.4	5291.8	5495.2	5641.1	5669.8	6255.6	7046.9	7071.2	7296.7	6620.3
52.5°	4980.1	4989.0	5318.3	5700.7	5994.7	6286.5	6954.1	7659.2	7729.9	7897.9	7170.7
55°	4458.5	4522.6	5022.1	5694.1	6273.2	6872.3	7701.2	8320.1	8384.2	8490.3	7654.8
57.5°	3852.8	3923.5	4531.4	5409.0	6392.6	7413.8	8393.1	9023.0	9067.2	9096.0	8099.1
60°	3328.9	3395.2	4020.8	4863.0	6273.2	7796.2	9036.3	9721.5	9759.1	9681.8	8322.3
62.5°	2685.7	2752.0	3382.0	4140.2	5804.6	7873.6	9513.8	10342.7	10358.1	10148.2	8185.3
65°	2024.8	2069.0	2595.1	3244.9	4984.6	7462.5	9622.1	10729.5	10714.0	10283.0	7774.1
66°	1814.8	1852.4	2316.5	2869.2	4557.9	7086.7	9476.2	10760.5	10745.0	10183.5	7504.5
67.5°	1565.0	1576.0	1958.5	2347.5	3813.0	6288.7	9031.9	10619.0	10632.2	9909.4	7011.5
70°	1222.4	1220.2	1441.2	1633.5	2603.9	4473.9	7533.2	9728.2	9792.3	8874.9	5979.3
72.5°	782.5	756.0	884.2	999.1	1516.4	2597.3	5493.0	7928.9	8037.2	6971.7	4454.0
75°	466.4	439.9	470.8	499.6	727.2	1248.9	3229.5	5395.7	5499.6	4469.5	2650.3
77.5°	349.3	338.2	340.4	316.1	322.7	468.6	1474.4	2851.5	2926.6	1830.2	1005.8
80°	267.5	238.7	223.3	234.3	212.2	185.7	548.2	981.4	1027.9	433.2	210.0
82.5°	179.0	154.7	143.7	156.9	134.8	103.9	132.6	190.1	185.7	117.2	81.8
85°	92.8	79.6	79.6	79.6	68.5	50.8	57.5	77.4	77.4	61.9	48.6
87.5°	26.5	24.3	28.7	26.5	19.9	19.9	22.1	26.5	26.5	24.3	22.1
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°	992.5	992.5	992.5	992.5	992.5	992.5	992.5	992.5	992.5	992.5	992.5
2.5°	990.3	981.4	957.1	939.4	921.8	906.3	888.6	884.2	875.3	877.5	873.1
5°	996.9	972.6	930.6	890.8	859.9	833.3	800.2	786.9	769.2	762.6	758.2
7.5°	1005.8	970.4	908.5	853.2	800.2	747.1	694.1	663.1	643.2	634.4	627.8
10°	1025.6	979.2	897.4	811.2	720.6	645.5	592.4	570.3	557.0	554.8	552.6
12.5°	1052.2	992.5	886.4	758.2	638.8	568.1	534.9	528.3	526.1	526.1	523.9
15°	1092.0	1014.6	868.7	696.3	574.7	526.1	510.6	499.6	495.1	495.1	495.1
17.5°	1131.7	1041.1	842.2	632.2	530.5	499.6	484.1	477.5	473.0	475.2	473.0
20°	1182.6	1072.1	806.8	576.9	501.8	477.5	462.0	455.4	453.1	453.1	453.1
22.5°	1240.1	1107.4	762.6	534.9	477.5	455.4	439.9	433.2	428.8	431.0	431.0
25°	1317.4	1151.6	716.2	492.9	453.1	433.2	415.6	406.7	406.7	408.9	411.1
27.5°	1416.9	1204.7	669.8	466.4	431.0	411.1	391.2	382.4	384.6	389.0	389.0
30°	1562.8	1277.6	623.3	437.7	406.7	384.6	366.9	358.1	362.5	371.4	371.4
32.5°	1770.6	1397.0	583.6	404.5	371.4	347.0	329.4	322.7	333.8	351.5	351.5
35°	2141.9	1615.8	559.2	371.4	333.8	305.0	282.9	276.3	291.8	313.9	313.9
37.5°	2639.3	1967.3	568.1	342.6	302.8	269.7	245.4	236.5	247.6	267.5	274.1
40°	3194.1	2391.7	645.5	318.3	274.1	240.9	216.6	207.8	214.4	223.3	225.5
42.5°	3748.9	2842.6	791.3	300.6	252.0	216.6	194.5	187.9	192.3	194.5	196.7
45°	4301.5	3289.1	974.8	289.6	232.1	196.7	174.6	174.6	176.8	176.8	176.8
47.5°	4825.4	3724.6	1167.1	287.4	214.4	176.8	159.2	161.4	161.4	163.6	163.6
50°	5320.5	4113.6	1361.6	294.0	198.9	159.2	145.9	145.9	145.9	148.1	145.9
52.5°	5733.9	4454.0	1565.0	305.0	183.5	145.9	132.6	132.6	132.6	134.8	132.6
55°	6125.1	4763.5	1772.8	320.5	170.2	134.8	121.6	117.2	117.2	119.4	117.2
57.5°	6443.5	4969.1	1969.5	322.7	159.2	123.8	112.7	106.1	106.1	106.1	106.1
60°	6456.7	4849.7	2027.0	282.9	145.9	112.7	101.7	92.8	95.0	95.0	95.0
62.5°	6034.5	4222.0	1629.1	212.2	130.4	101.7	92.8	84.0	84.0	84.0	84.0
65°	5205.6	3284.7	954.9	168.0	112.7	90.6	81.8	75.2	75.2	75.2	72.9
66°	4816.6	2880.2	731.7	152.5	106.1	88.4	79.6	72.9	70.7	68.5	68.5
67.5°	4182.2	2276.8	457.6	134.8	97.3	81.8	72.9	66.3	64.1	61.9	61.9
70°	3149.9	1445.6	223.3	103.9	84.0	70.7	64.1	57.5	55.3	53.1	50.8
72.5°	2210.4	846.6	117.2	79.6	68.5	61.9	55.3	48.6	46.4	44.2	44.2
75°	1248.9	408.9	77.4	57.5	55.3	50.8	46.4	39.8	37.6	37.6	37.6
77.5°	473.0	141.5	53.1	42.0	44.2	39.8	33.2	33.2	30.9	33.2	30.9
80°	123.8	61.9	33.2	30.9	33.2	28.7	24.3	26.5	26.5	26.5	26.5
82.5°	66.3	35.4	19.9	22.1	19.9	19.9	15.5	17.7	19.9	17.7	19.9
85°	46.4	17.7	11.1	11.1	8.8	8.8	6.6	8.8	11.1	8.8	8.8
87.5°	24.3	6.6	6.6	6.6	6.6	4.4	2.2	0.0	2.2	2.2	2.2
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)