

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: P1210202

Luminaire Tested: **ARCH2-50-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210202
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: ARCH2-50-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

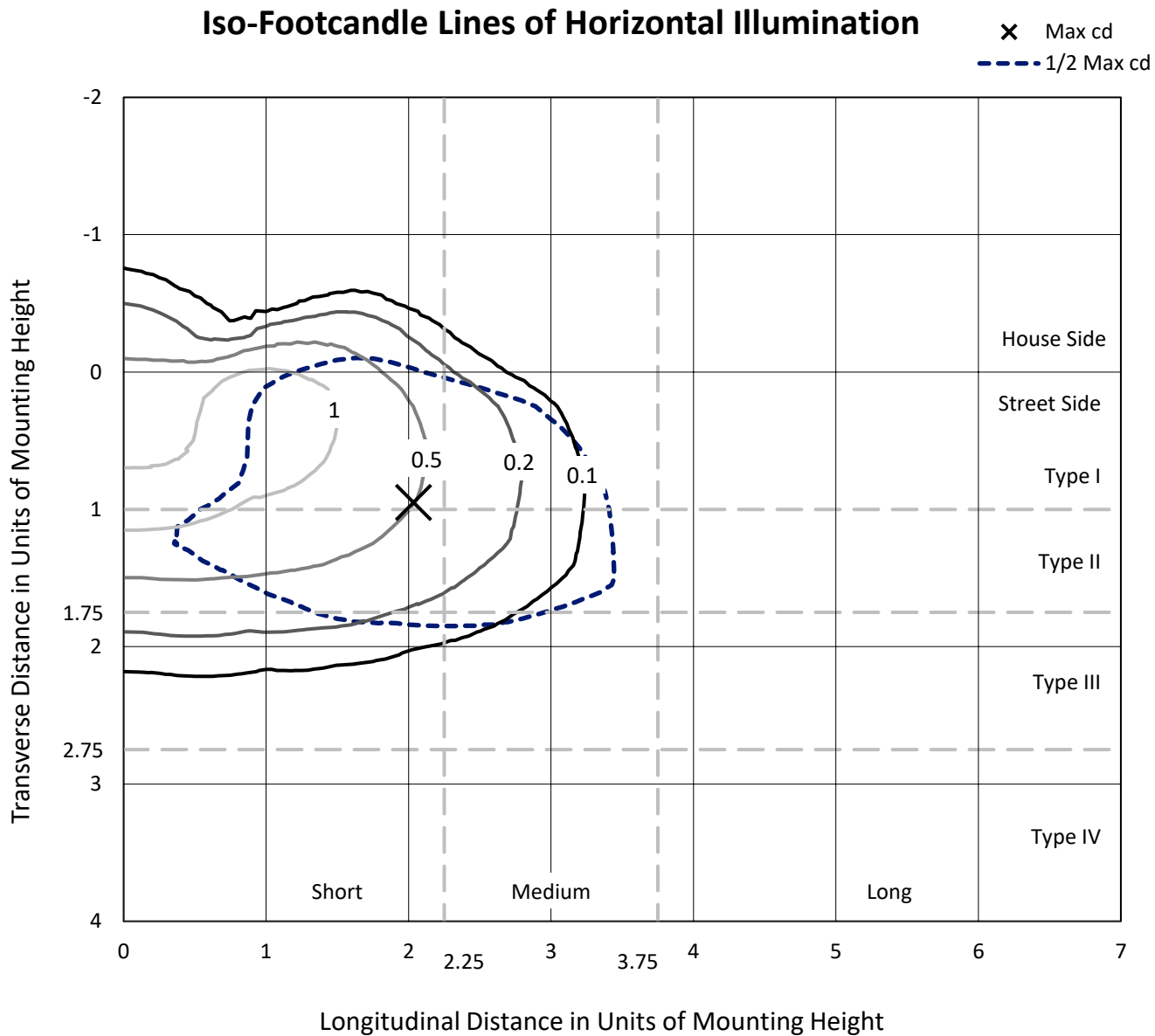
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5344 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 54
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



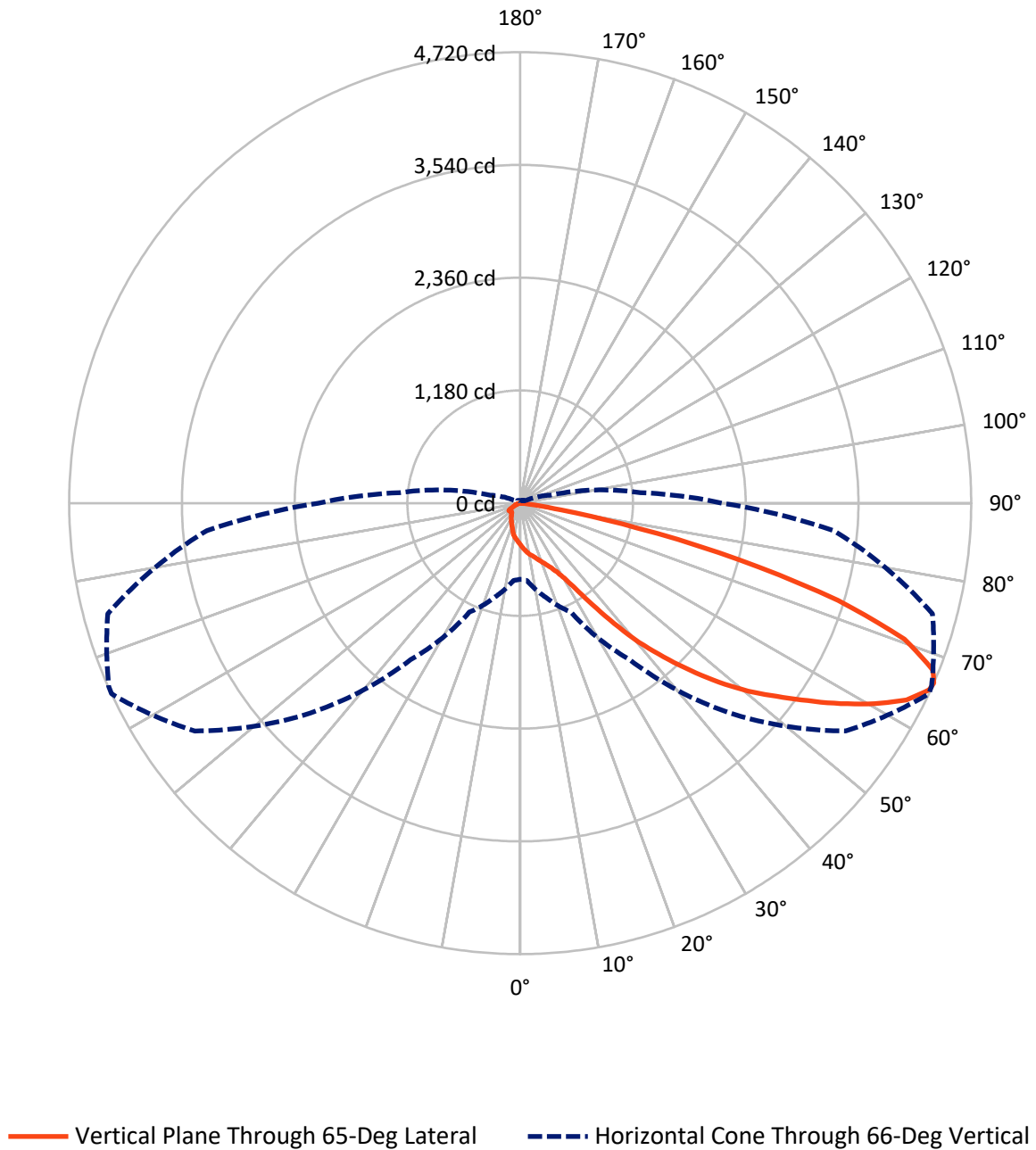
REPORT NUMBER: P1210202
CATALOG NUMBER: ARCH2-50-727-U-T3RE-HSS



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
Type III - Short - N/A

REPORT NUMBER: P1210202
CATALOG NUMBER: ARCH2-50-727-U-T3RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1210202

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	630.7	0.0	630.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4713.3	0.0	4713.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	5344.0	0.0	5344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	0.8
10°-20°	122.2	2.3
20°-30°	223.6	4.2
30°-40°	454.4	8.5
40°-50°	959.6	18.0
50°-60°	1475.3	27.6
60°-70°	1485.0	27.8
70°-80°	554.9	10.4
80°-90°	27.7	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°	5344.0	100.0
0°-180°	5344.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210202

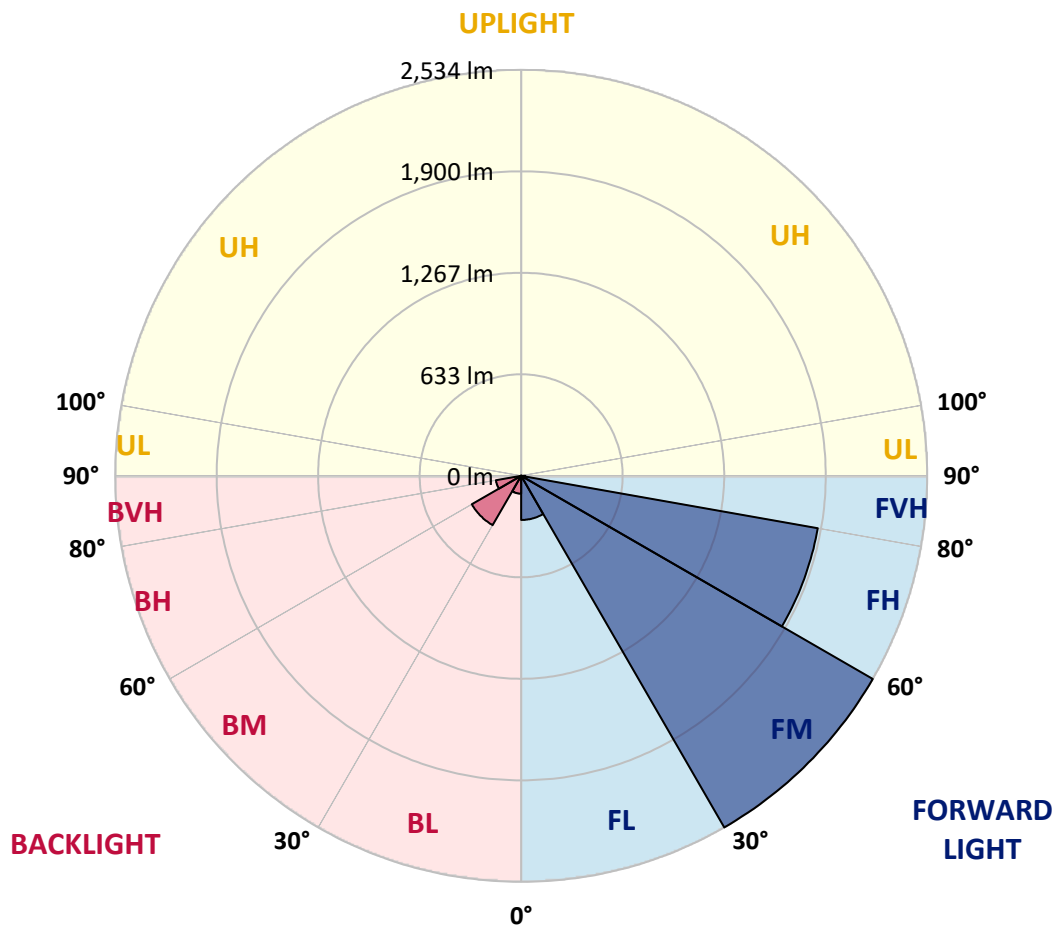
CATALOG NUMBER: ARCH2-50-727-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	275.5	5.2			
FM	(30°-60°)	2533.7	47.4			
FH	(60°-80°)	1879.6	35.2			G2/5000
FVH	(80°-90°)	24.5	0.5			G1/100
BL	(0°-30°)	111.6	2.1	B1/500		
BM	(30°-60°)	355.6	6.7	B1/1000		
BH	(60°-80°)	160.2	3.0	B1/500		G1/500
BVH	(80°-90°)	3.3	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



REPORT NUMBER: P1210202

CATALOG NUMBER: ARCH2-50-727-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	435.4	435.4	435.4	435.4	435.4	435.4	435.4	435.4	435.4	435.4	435.4
2.5°	496.5	497.4	495.5	491.6	487.7	482.9	475.1	462.5	460.6	451.9	442.2
5°	530.4	532.4	529.4	528.5	526.5	519.7	509.1	490.7	488.7	471.3	449.0
7.5°	542.1	545.0	543.0	543.0	543.0	540.1	535.3	518.8	515.9	493.6	459.6
10°	550.8	552.7	551.7	555.6	558.5	556.6	553.7	544.0	541.1	518.8	474.2
12.5°	564.4	565.3	566.3	568.2	573.1	575.0	574.0	565.3	563.4	547.9	492.6
15°	577.0	577.0	577.9	586.7	593.4	597.3	598.3	591.5	589.6	577.0	515.9
17.5°	588.6	589.6	592.5	602.2	613.8	621.6	626.4	623.5	620.6	610.9	543.0
20°	606.0	608.0	610.9	624.5	636.1	648.7	658.4	657.4	656.5	649.7	575.0
22.5°	636.1	638.0	642.9	655.5	667.1	682.7	699.1	698.2	695.3	690.4	612.8
25°	681.7	681.7	684.6	695.3	709.8	728.2	743.7	746.7	743.7	740.8	660.4
27.5°	738.9	739.9	739.9	751.5	765.1	788.3	807.7	810.7	810.7	807.7	724.3
30°	818.4	815.5	813.6	823.3	837.8	871.7	905.7	911.5	908.6	913.4	814.5
32.5°	955.1	950.3	933.8	935.7	944.5	991.0	1048.2	1068.6	1067.6	1076.3	960.0
35°	1144.2	1134.5	1110.3	1089.9	1088.9	1139.4	1226.6	1303.2	1302.3	1332.3	1181.1
37.5°	1357.5	1370.2	1324.6	1289.7	1279.0	1318.8	1431.2	1597.1	1605.8	1658.2	1471.0
40°	1642.6	1650.4	1592.2	1542.8	1492.3	1506.9	1655.2	1913.2	1928.7	1986.9	1760.9
42.5°	1890.9	1898.6	1864.7	1804.6	1740.6	1713.4	1881.2	2200.2	2212.8	2293.3	2059.6
45°	2059.6	2065.4	2077.1	2082.9	2010.1	1953.9	2157.5	2495.0	2510.5	2603.6	2351.5
47.5°	2191.5	2196.3	2219.6	2277.8	2263.2	2218.6	2438.7	2801.4	2805.3	2909.0	2635.6
50°	2252.6	2264.2	2321.4	2410.6	2474.6	2487.2	2744.2	3091.3	3102.0	3200.9	2904.2
52.5°	2184.7	2188.6	2333.0	2500.8	2629.8	2757.8	3050.6	3359.9	3391.0	3464.7	3145.6
55°	1955.8	1984.0	2203.1	2497.9	2751.9	3014.7	3378.4	3649.9	3678.0	3724.5	3358.0
57.5°	1690.1	1721.2	1987.8	2372.8	2804.3	3252.3	3681.9	3958.2	3977.6	3990.2	3552.9
60°	1460.3	1489.4	1763.8	2133.3	2751.9	3420.1	3964.0	4264.6	4281.1	4247.2	3650.8
62.5°	1178.2	1207.2	1483.6	1816.2	2546.4	3454.0	4173.5	4537.1	4543.9	4451.8	3590.7
65°	888.2	907.6	1138.4	1423.5	2186.6	3273.6	4221.0	4706.8	4700.0	4510.9	3410.4
66°	796.1	812.6	1016.2	1258.6	1999.5	3108.8	4157.0	4720.4	4713.6	4467.3	3292.1
67.5°	686.5	691.4	859.1	1029.8	1672.7	2758.7	3962.1	4658.3	4664.2	4347.1	3075.8
70°	536.2	535.3	632.2	716.6	1142.3	1962.6	3304.7	4267.6	4295.7	3893.3	2623.0
72.5°	343.3	331.6	387.9	438.3	665.2	1139.4	2409.7	3478.2	3525.8	3058.4	1953.9
75°	204.6	193.0	206.5	219.1	319.0	547.9	1416.7	2367.0	2412.6	1960.7	1162.6
77.5°	153.2	148.4	149.3	138.7	141.6	205.6	646.8	1250.9	1283.9	802.9	441.2
80°	117.3	104.7	97.9	102.8	93.1	81.5	240.5	430.5	450.9	190.1	92.1
82.5°	78.5	67.9	63.0	68.8	59.2	45.6	58.2	83.4	81.5	51.4	35.9
85°	40.7	34.9	34.9	34.9	30.1	22.3	25.2	33.9	33.9	27.2	21.3
87.5°	11.6	10.7	12.6	11.6	8.7	8.7	9.7	11.6	11.6	10.7	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1210202

CATALOG NUMBER: ARCH2-50-727-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	435.4	435.4	435.4	435.4	435.4	435.4	435.4	435.4	435.4	435.4	435.4
2.5°	434.4	430.5	419.9	412.1	404.4	397.6	389.8	387.9	384.0	385.0	383.0
5°	437.3	426.7	408.2	390.8	377.2	365.6	351.0	345.2	337.4	334.5	332.6
7.5°	441.2	425.7	398.5	374.3	351.0	327.8	304.5	290.9	282.2	278.3	275.4
10°	449.9	429.6	393.7	355.9	316.1	283.1	259.9	250.2	244.4	243.4	242.4
12.5°	461.6	435.4	388.8	332.6	280.2	249.2	234.7	231.8	230.8	230.8	229.8
15°	479.0	445.1	381.1	305.4	252.1	230.8	224.0	219.1	217.2	217.2	217.2
17.5°	496.5	456.7	369.4	277.3	232.7	219.1	212.4	209.5	207.5	208.5	207.5
20°	518.8	470.3	353.9	253.1	220.1	209.5	202.7	199.8	198.8	198.8	198.8
22.5°	544.0	485.8	334.5	234.7	209.5	199.8	193.0	190.1	188.1	189.1	189.1
25°	577.9	505.2	314.2	216.2	198.8	190.1	182.3	178.4	178.4	179.4	180.4
27.5°	621.6	528.5	293.8	204.6	189.1	180.4	171.6	167.8	168.7	170.7	170.7
30°	685.6	560.5	273.4	192.0	178.4	168.7	161.0	157.1	159.0	162.9	162.9
32.5°	776.7	612.8	256.0	177.5	162.9	152.2	144.5	141.6	146.4	154.2	154.2
35°	939.6	708.8	245.3	162.9	146.4	133.8	124.1	121.2	128.0	137.7	137.7
37.5°	1157.8	863.0	249.2	150.3	132.8	118.3	107.6	103.8	108.6	117.3	120.2
40°	1401.2	1049.2	283.1	139.6	120.2	105.7	95.0	91.1	94.1	97.9	98.9
42.5°	1644.6	1247.0	347.1	131.9	110.5	95.0	85.3	82.4	84.4	85.3	86.3
45°	1887.0	1442.9	427.6	127.0	101.8	86.3	76.6	76.6	77.6	77.6	77.6
47.5°	2116.8	1633.9	512.0	126.1	94.1	77.6	69.8	70.8	70.8	71.8	71.8
50°	2334.0	1804.6	597.3	129.0	87.3	69.8	64.0	64.0	64.0	65.0	64.0
52.5°	2515.3	1953.9	686.5	133.8	80.5	64.0	58.2	58.2	58.2	59.2	58.2
55°	2687.0	2089.7	777.7	140.6	74.7	59.2	53.3	51.4	51.4	52.4	51.4
57.5°	2826.6	2179.8	864.0	141.6	69.8	54.3	49.5	46.5	46.5	46.5	46.5
60°	2832.4	2127.5	889.2	124.1	64.0	49.5	44.6	40.7	41.7	41.7	41.7
62.5°	2647.2	1852.1	714.7	93.1	57.2	44.6	40.7	36.8	36.8	36.8	36.8
65°	2283.6	1440.9	418.9	73.7	49.5	39.8	35.9	33.0	33.0	33.0	32.0
66°	2112.9	1263.5	321.0	66.9	46.5	38.8	34.9	32.0	31.0	30.1	30.1
67.5°	1834.6	998.8	200.7	59.2	42.7	35.9	32.0	29.1	28.1	27.2	27.2
70°	1381.8	634.2	97.9	45.6	36.8	31.0	28.1	25.2	24.2	23.3	22.3
72.5°	969.7	371.4	51.4	34.9	30.1	27.2	24.2	21.3	20.4	19.4	19.4
75°	547.9	179.4	33.9	25.2	24.2	22.3	20.4	17.5	16.5	16.5	16.5
77.5°	207.5	62.1	23.3	18.4	19.4	17.5	14.5	14.5	13.6	14.5	13.6
80°	54.3	27.2	14.5	13.6	14.5	12.6	10.7	11.6	11.6	11.6	11.6
82.5°	29.1	15.5	8.7	9.7	8.7	8.7	6.8	7.8	8.7	7.8	8.7
85°	20.4	7.8	4.8	4.8	3.9	3.9	2.9	3.9	4.8	3.9	3.9
87.5°	10.7	2.9	2.9	2.9	2.9	1.9	1.0	0.0	1.0	1.0	1.0
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)