

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: P1210014

Luminaire Tested: **ARCH1-50-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210014
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: ARCH1-50-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

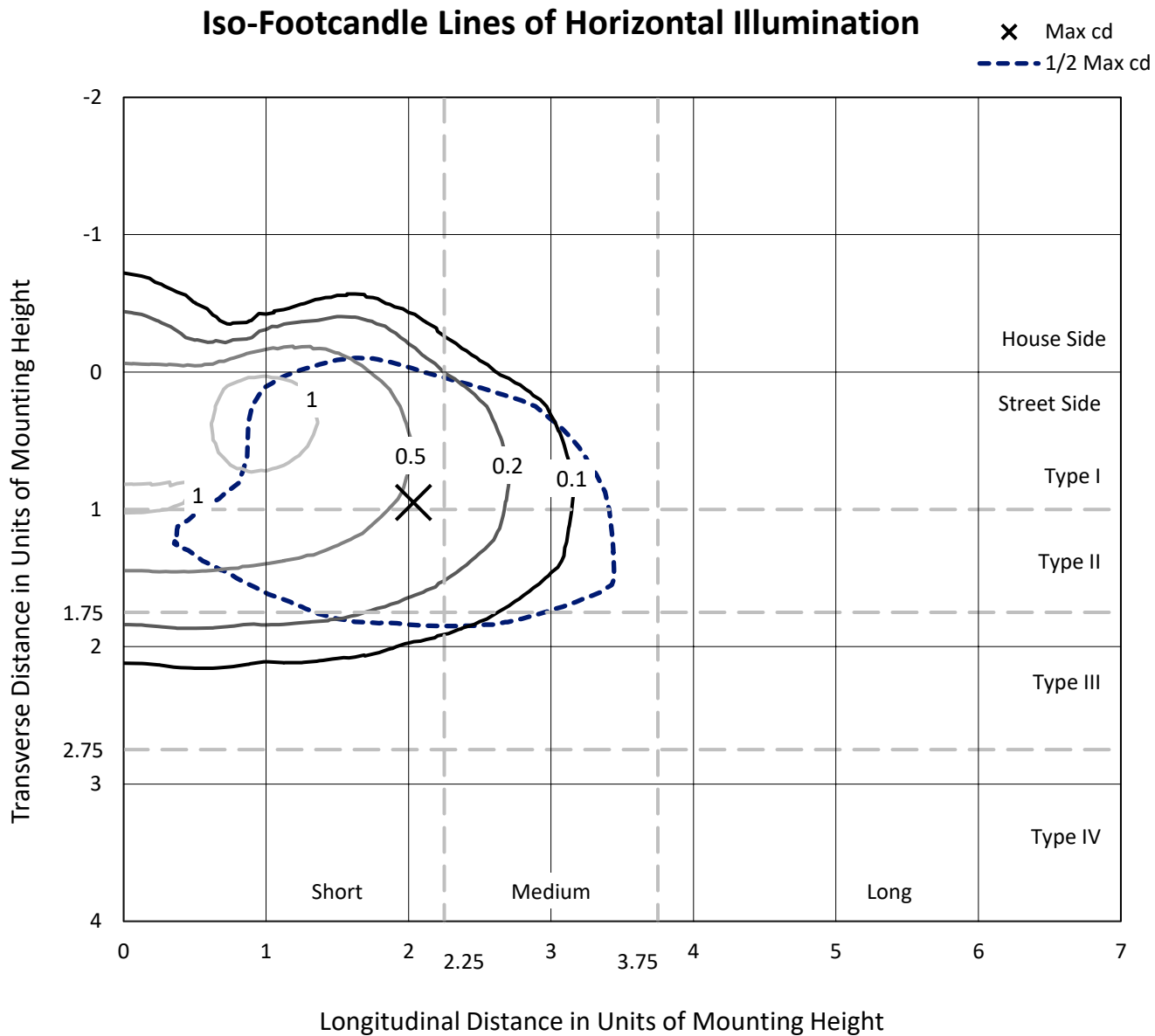
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4692 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 53
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

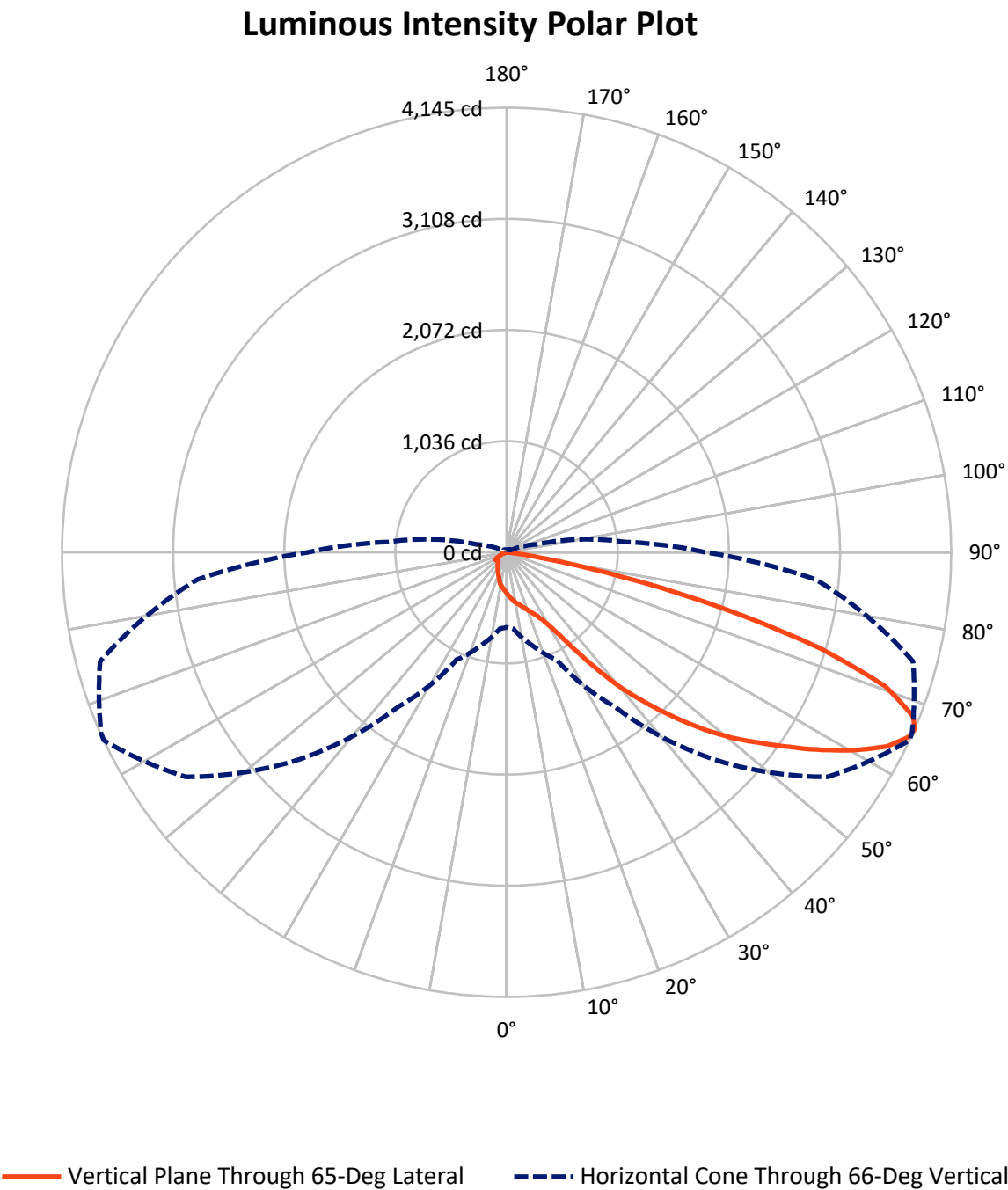


REPORT NUMBER: P1210014
CATALOG NUMBER: ARCH1-50-730-U-T3RE-HSS



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type III - Short - N/A

REPORT NUMBER: P1210014
CATALOG NUMBER: ARCH1-50-730-U-T3RE-HSS



REPORT NUMBER: P1210014

CATALOG NUMBER: ARCH1-50-730-U-T3RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	553.8	0.0	553.8
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	4138.2	0.0	4138.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	4692.0	0.0	4692.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.2	0.8
10°-20°	107.3	2.3
20°-30°	196.4	4.2
30°-40°	399.0	8.5
40°-50°	842.6	18.0
50°-60°	1295.3	27.6
60°-70°	1303.8	27.8
70°-80°	487.2	10.4
80°-90°	24.3	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°	4692.0	100.0
0°-180°	4692.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210014

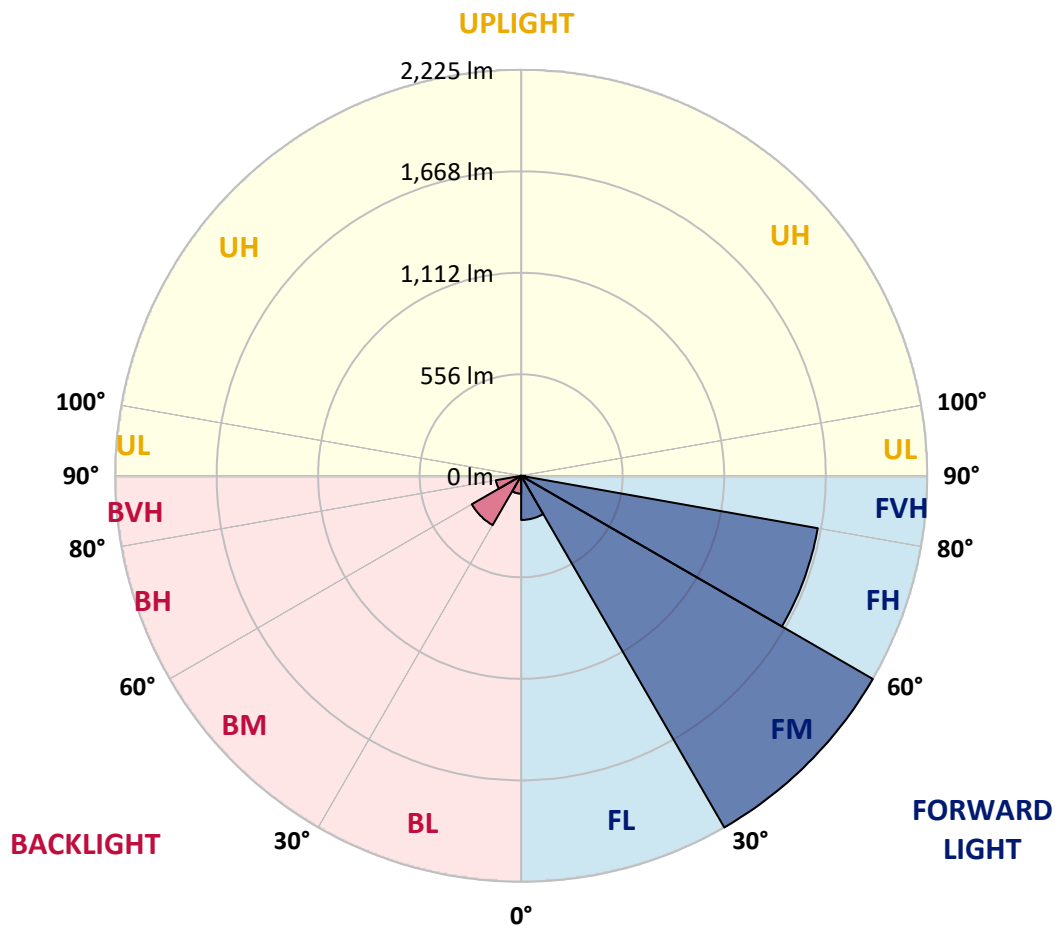
CATALOG NUMBER: ARCH1-50-730-U-T3RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	241.9	5.2			
FM	(30°-60°)	2224.6	47.4			
FH	(60°-80°)	1650.3	35.2			G1/1800
FVH	(80°-90°)	21.5	0.5			G1/100
BL	(0°-30°)	98.0	2.1	B0/110		
BM	(30°-60°)	312.2	6.7	B1/1000		
BH	(60°-80°)	140.7	3.0	B1/500		G1/500
BVH	(80°-90°)	2.9	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-G1

Type III Short



REPORT NUMBER: P1210014

CATALOG NUMBER: ARCH1-50-730-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3
2.5°	435.9	436.8	435.1	431.6	428.2	424.0	417.2	406.1	404.4	396.7	388.2
5°	465.7	467.4	464.8	464.0	462.3	456.3	447.0	430.8	429.1	413.8	394.2
7.5°	475.9	478.5	476.8	476.8	476.8	474.2	470.0	455.5	452.9	433.3	403.6
10°	483.6	485.3	484.4	487.8	490.4	488.7	486.1	477.6	475.1	455.5	416.3
12.5°	495.5	496.3	497.2	498.9	503.2	504.9	504.0	496.3	494.6	481.0	432.5
15°	506.6	506.6	507.4	515.1	521.0	524.4	525.3	519.3	517.6	506.6	452.9
17.5°	516.8	517.6	520.2	528.7	538.9	545.7	550.0	547.4	544.9	536.4	476.8
20°	532.1	533.8	536.4	548.3	558.5	569.6	578.1	577.2	576.4	570.4	504.9
22.5°	558.5	560.2	564.5	575.5	585.7	599.4	613.8	613.0	610.4	606.2	538.1
25°	598.5	598.5	601.1	610.4	623.2	639.4	653.0	655.6	653.0	650.4	579.8
27.5°	648.7	649.6	649.6	659.8	671.7	692.2	709.2	711.7	711.7	709.2	636.0
30°	718.6	716.0	714.3	722.8	735.6	765.4	795.2	800.3	797.7	802.0	715.2
32.5°	838.6	834.3	819.9	821.6	829.2	870.1	920.3	938.2	937.4	945.0	842.9
35°	1004.6	996.1	974.8	956.9	956.1	1000.4	1077.0	1144.2	1143.4	1169.8	1037.0
37.5°	1191.9	1203.0	1163.0	1132.3	1123.0	1157.9	1256.6	1402.2	1409.9	1455.8	1291.5
40°	1442.2	1449.0	1398.0	1354.5	1310.3	1323.0	1453.3	1679.8	1693.4	1744.5	1546.1
42.5°	1660.2	1667.0	1637.2	1584.4	1528.2	1504.4	1651.7	1931.8	1942.8	2013.5	1808.3
45°	1808.3	1813.4	1823.6	1828.7	1764.9	1715.5	1894.3	2190.6	2204.2	2285.9	2064.6
47.5°	1924.1	1928.4	1948.8	1999.9	1987.1	1947.9	2141.2	2459.6	2463.0	2554.1	2314.0
50°	1977.7	1988.0	2038.2	2116.5	2172.7	2183.8	2409.4	2714.2	2723.5	2810.4	2549.9
52.5°	1918.1	1921.5	2048.4	2195.7	2308.9	2421.3	2678.4	2950.0	2977.2	3042.0	2761.9
55°	1717.2	1741.9	1934.3	2193.1	2416.2	2646.9	2966.2	3204.6	3229.3	3270.1	2948.3
57.5°	1483.9	1511.2	1745.3	2083.3	2462.2	2855.5	3232.7	3475.3	3492.3	3503.4	3119.4
60°	1282.2	1307.7	1548.6	1873.0	2416.2	3002.8	3480.4	3744.3	3758.8	3729.0	3205.4
62.5°	1034.4	1060.0	1302.6	1594.6	2235.7	3032.6	3664.3	3983.6	3989.5	3908.6	3152.6
65°	779.9	796.9	999.5	1249.8	1919.8	2874.2	3706.0	4132.6	4126.6	3960.6	2994.3
66°	699.0	713.4	892.2	1105.1	1755.5	2729.5	3649.8	4144.5	4138.5	3922.3	2890.4
67.5°	602.8	607.0	754.3	904.2	1468.6	2422.2	3478.7	4090.0	4095.1	3816.7	2700.6
70°	470.8	470.0	555.1	629.2	1002.9	1723.2	2901.5	3746.9	3771.6	3418.3	2303.0
72.5°	301.4	291.2	340.5	384.8	584.0	1000.4	2115.7	3053.9	3095.6	2685.2	1715.5
75°	179.6	169.4	181.3	192.4	280.1	481.0	1243.9	2078.2	2118.2	1721.5	1020.8
77.5°	134.5	130.3	131.1	121.7	124.3	180.5	567.9	1098.3	1127.2	704.9	387.4
80°	103.0	91.9	86.0	90.2	81.7	71.5	211.1	378.0	395.9	166.9	80.9
82.5°	69.0	59.6	55.3	60.4	51.9	40.0	51.1	73.2	71.5	45.1	31.5
85°	35.8	30.6	30.6	30.6	26.4	19.6	22.1	29.8	29.8	23.8	18.7
87.5°	10.2	9.4	11.1	10.2	7.7	7.7	8.5	10.2	10.2	9.4	8.5
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: P1210014

CATALOG NUMBER: ARCH1-50-730-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3	382.3
2.5°	381.4	378.0	368.6	361.8	355.0	349.1	342.3	340.5	337.1	338.0	336.3
5°	384.0	374.6	358.4	343.1	331.2	321.0	308.2	303.1	296.3	293.7	292.0
7.5°	387.4	373.8	349.9	328.6	308.2	287.8	267.3	255.4	247.7	244.3	241.8
10°	395.0	377.2	345.7	312.5	277.5	248.6	228.2	219.7	214.5	213.7	212.8
12.5°	405.3	382.3	341.4	292.0	246.0	218.8	206.0	203.5	202.6	202.6	201.8
15°	420.6	390.8	334.6	268.2	221.4	202.6	196.7	192.4	190.7	190.7	190.7
17.5°	435.9	401.0	324.4	243.5	204.3	192.4	186.5	183.9	182.2	183.0	182.2
20°	455.5	412.9	310.8	222.2	193.3	183.9	177.9	175.4	174.5	174.5	174.5
22.5°	477.6	426.5	293.7	206.0	183.9	175.4	169.4	166.9	165.2	166.0	166.0
25°	507.4	443.6	275.8	189.9	174.5	166.9	160.1	156.7	156.7	157.5	158.4
27.5°	545.7	464.0	258.0	179.6	166.0	158.4	150.7	147.3	148.1	149.8	149.8
30°	601.9	492.1	240.1	168.6	156.7	148.1	141.3	137.9	139.6	143.0	143.0
32.5°	681.9	538.1	224.8	155.8	143.0	133.7	126.9	124.3	128.6	135.4	135.4
35°	825.0	622.4	215.4	143.0	128.6	117.5	109.0	106.4	112.4	120.9	120.9
37.5°	1016.5	757.7	218.8	132.0	116.6	103.9	94.5	91.1	95.4	103.0	105.6
40°	1230.2	921.2	248.6	122.6	105.6	92.8	83.4	80.0	82.6	86.0	86.8
42.5°	1443.9	1094.9	304.8	115.8	97.1	83.4	74.9	72.4	74.1	74.9	75.8
45°	1656.8	1266.8	375.5	111.5	89.4	75.8	67.3	67.3	68.1	68.1	68.1
47.5°	1858.5	1434.6	449.5	110.7	82.6	68.1	61.3	62.2	62.2	63.0	63.0
50°	2049.3	1584.4	524.4	113.2	76.6	61.3	56.2	56.2	56.2	57.0	56.2
52.5°	2208.5	1715.5	602.8	117.5	70.7	56.2	51.1	51.1	51.1	51.9	51.1
55°	2359.2	1834.7	682.8	123.4	65.6	51.9	46.8	45.1	45.1	46.0	45.1
57.5°	2481.7	1913.9	758.6	124.3	61.3	47.7	43.4	40.9	40.9	40.9	40.9
60°	2486.9	1867.9	780.7	109.0	56.2	43.4	39.2	35.8	36.6	36.6	36.6
62.5°	2324.2	1626.1	627.5	81.7	50.2	39.2	35.8	32.4	32.4	32.4	32.4
65°	2005.0	1265.1	367.8	64.7	43.4	34.9	31.5	28.9	28.9	28.9	28.1
66°	1855.1	1109.3	281.8	58.7	40.9	34.1	30.6	28.1	27.2	26.4	26.4
67.5°	1610.8	876.9	176.2	51.9	37.5	31.5	28.1	25.5	24.7	23.8	23.8
70°	1213.2	556.8	86.0	40.0	32.4	27.2	24.7	22.1	21.3	20.4	19.6
72.5°	851.4	326.1	45.1	30.6	26.4	23.8	21.3	18.7	17.9	17.0	17.0
75°	481.0	157.5	29.8	22.1	21.3	19.6	17.9	15.3	14.5	14.5	14.5
77.5°	182.2	54.5	20.4	16.2	17.0	15.3	12.8	12.8	11.9	12.8	11.9
80°	47.7	23.8	12.8	11.9	12.8	11.1	9.4	10.2	10.2	10.2	10.2
82.5°	25.5	13.6	7.7	8.5	7.7	7.7	6.0	6.8	7.7	6.8	7.7
85°	17.9	6.8	4.3	4.3	3.4	3.4	2.6	3.4	4.3	3.4	3.4
87.5°	9.4	2.6	2.6	2.6	2.6	1.7	0.9	0.0	0.9	0.9	0.9
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)