

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: P1209976

Luminaire Tested: **ARCH1-40-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209976
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: ARCH1-40-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

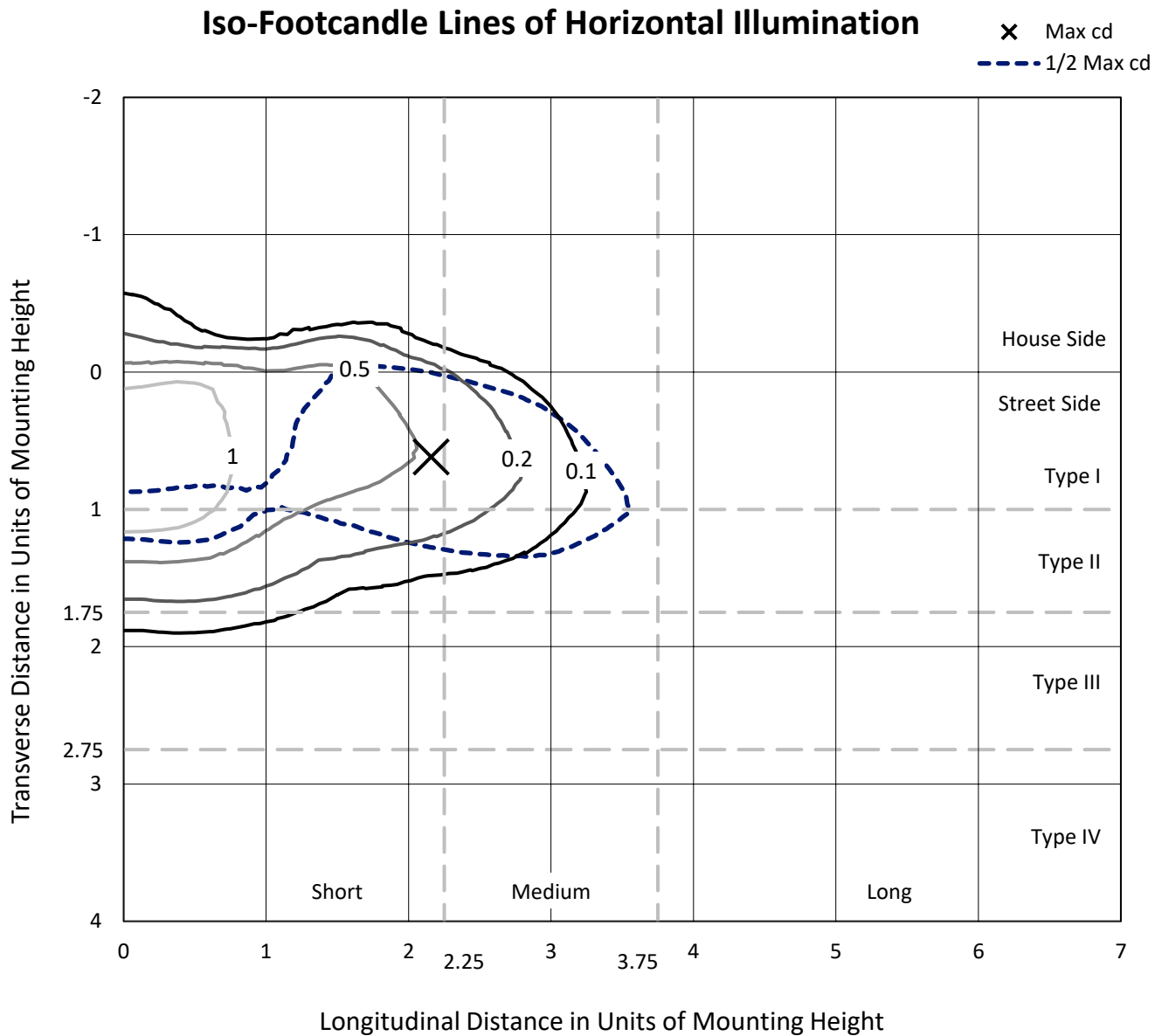
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3959 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 43
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



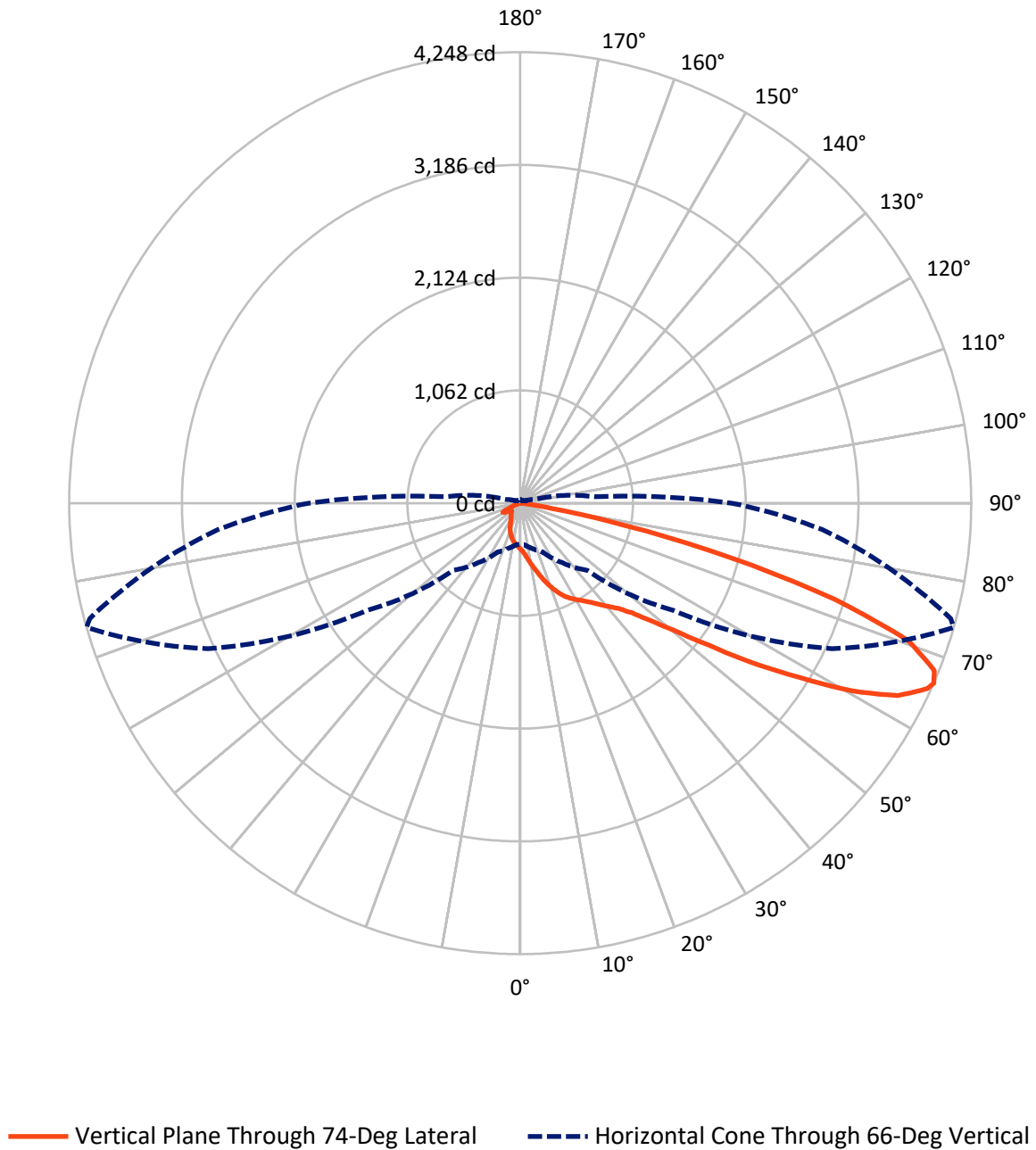
REPORT NUMBER: P1209976
CATALOG NUMBER: ARCH1-40-727-U-T2RE-HSS



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type II - Short - N/A

REPORT NUMBER: P1209976
CATALOG NUMBER: ARCH1-40-727-U-T2RE-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P1209976

CATALOG NUMBER: ARCH1-40-727-U-T2RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	388.1	0.0	388.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	3570.9	0.0	3570.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	3959.0	0.0	3959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.2	1.1
10°-20°	135.2	3.4
20°-30°	258.1	6.5
30°-40°	452.3	11.4
40°-50°	775.6	19.6
50°-60°	1008.8	25.5
60°-70°	913.2	23.1
70°-80°	352.4	8.9
80°-90°	21.2	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°	3959.0	100.0
0°-180°	3959.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1209976

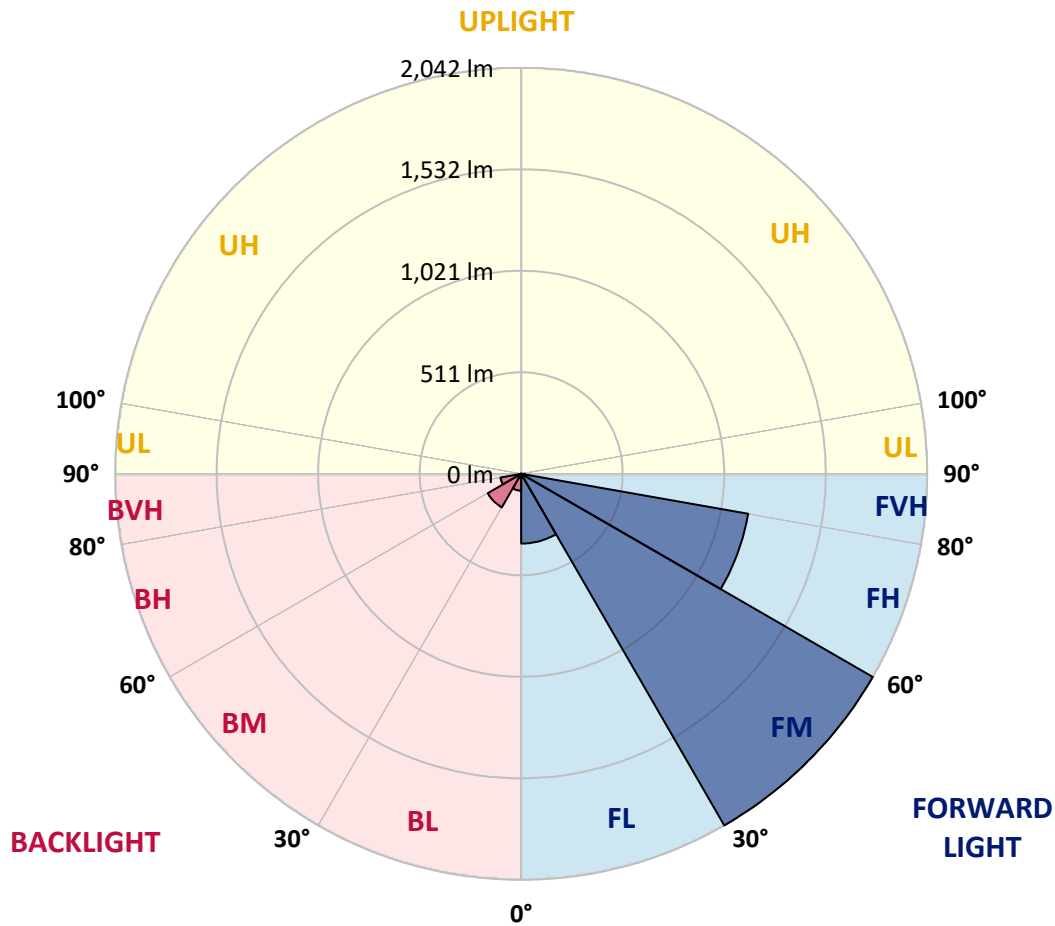
CATALOG NUMBER: ARCH1-40-727-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	350.8	8.9			
FM	(30°-60°)	2042.3	51.6			
FH	(60°-80°)	1159.5	29.3			G1/1800
FVH	(80°-90°)	18.4	0.5			G1/100
BL	(0°-30°)	84.7	2.1	B0/110		
BM	(30°-60°)	194.5	4.9	B0/220		
BH	(60°-80°)	106.1	2.7	B0/110		G0/110
BVH	(80°-90°)	2.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short



REPORT NUMBER: P1209976

CATALOG NUMBER: ARCH1-40-727-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2
2.5°	518.9	514.6	506.8	506.1	499.7	491.9	478.4	464.1	454.2	452.8	440.7
5°	621.2	619.1	611.3	606.3	594.2	575.7	544.5	513.2	486.9	484.0	457.0
7.5°	648.2	649.7	651.1	656.1	651.8	643.3	619.8	575.7	534.5	528.1	481.2
10°	652.5	651.1	651.1	657.5	669.6	681.6	678.8	641.1	587.8	580.0	514.6
12.5°	698.7	700.8	695.9	693.0	690.9	697.3	718.6	702.3	644.0	637.6	555.1
15°	758.4	757.7	750.6	750.6	744.2	733.5	747.0	759.1	711.5	703.7	601.3
17.5°	801.8	804.6	803.9	808.2	806.0	791.8	784.7	809.6	781.2	771.2	653.9
20°	836.6	844.4	847.3	860.8	867.2	857.2	838.7	854.4	848.0	838.7	707.2
22.5°	873.6	880.0	884.9	908.4	926.2	924.0	900.6	897.0	912.7	904.1	759.8
25°	910.5	913.4	928.3	956.7	985.2	992.3	968.1	940.4	970.9	963.1	806.7
27.5°	951.0	952.5	970.2	1005.1	1044.9	1059.8	1040.6	989.4	1015.7	1015.7	849.4
30°	1025.0	1039.2	1046.3	1077.6	1112.4	1133.0	1110.3	1041.3	1055.5	1061.9	894.2
32.5°	1184.2	1186.3	1184.2	1197.7	1204.8	1216.9	1190.6	1099.6	1096.0	1103.1	938.2
35°	1427.3	1418.7	1396.0	1376.1	1334.9	1312.1	1278.0	1174.2	1145.8	1155.7	981.6
37.5°	1722.2	1710.2	1658.3	1597.1	1509.0	1418.0	1375.4	1265.2	1209.1	1221.8	1028.5
40°	2003.7	1995.9	1934.1	1858.7	1708.0	1552.4	1462.1	1342.0	1279.4	1284.4	1076.1
42.5°	2235.4	2234.0	2182.1	2103.2	1909.9	1697.4	1564.4	1417.3	1353.3	1361.2	1125.9
45°	2411.0	2397.5	2359.1	2302.2	2105.4	1848.0	1688.1	1531.7	1472.0	1481.3	1200.5
47.5°	2411.0	2413.1	2438.0	2432.3	2241.8	1989.5	1823.2	1676.0	1647.6	1656.1	1323.5
50°	2214.8	2234.7	2345.6	2438.7	2312.9	2099.7	1968.9	1856.6	1885.7	1898.5	1538.1
52.5°	1826.7	1860.1	2052.8	2265.3	2260.3	2155.1	2119.6	2086.2	2216.9	2239.7	1855.2
55°	1388.2	1410.2	1661.1	1940.5	2031.4	2109.6	2251.1	2377.6	2655.5	2650.5	2177.1
57.5°	1037.0	1057.7	1273.7	1583.6	1703.8	1912.7	2318.6	2710.9	3090.5	3109.7	2479.2
60°	762.7	778.3	962.4	1216.9	1390.3	1611.4	2291.6	3039.3	3591.6	3569.6	2745.8
62.5°	564.4	572.9	705.8	871.4	1101.7	1312.8	2121.7	3263.9	3991.8	3947.0	2894.3
65°	436.4	439.3	508.2	596.4	801.1	1020.7	1868.7	3298.1	4212.8	4165.2	2891.5
66°	388.8	390.9	441.4	509.6	681.6	893.5	1757.8	3243.3	4247.7	4197.2	2855.9
67.5°	326.3	324.8	354.7	399.5	511.8	689.5	1560.9	3083.4	4206.4	4180.9	2742.2
70°	241.7	242.4	257.3	268.0	299.2	381.7	1127.3	2674.7	3876.6	3875.2	2430.2
72.5°	179.1	181.3	192.6	194.8	186.9	206.8	649.7	2127.4	3101.2	3101.9	1816.8
75°	134.3	137.9	141.4	142.9	135.8	130.8	293.6	1431.5	2040.0	2025.0	1028.5
77.5°	102.4	103.8	106.6	104.5	103.1	90.3	122.3	698.0	1007.2	917.6	333.4
80°	74.6	74.6	77.5	74.6	73.9	64.7	66.8	223.9	295.7	245.9	71.8
82.5°	46.9	46.2	48.3	47.6	46.2	41.2	39.1	62.5	68.2	61.1	34.8
85°	26.3	25.6	24.9	24.2	22.0	18.5	21.3	23.5	31.3	32.0	24.9
87.5°	9.2	9.2	8.5	7.8	6.4	6.4	7.8	7.8	11.4	11.4	12.8
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: P1209976

CATALOG NUMBER: ARCH1-40-727-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2	432.2
2.5°	435.0	427.2	415.8	400.9	390.2	379.6	368.2	361.8	352.6	350.4	353.3
5°	442.8	428.6	400.2	368.9	341.9	317.7	295.0	281.5	268.0	263.0	265.1
7.5°	459.2	435.0	386.7	336.2	291.4	255.2	228.2	212.5	200.4	195.5	196.9
10°	483.3	446.4	373.9	299.2	241.7	203.3	180.5	170.6	163.5	160.6	161.3
12.5°	512.5	462.7	357.5	262.3	199.0	165.6	155.0	152.8	151.4	150.0	150.7
15°	545.2	476.9	338.3	226.0	165.6	147.1	143.6	142.9	142.2	142.2	142.2
17.5°	579.3	489.7	317.0	191.9	144.3	135.8	133.6	133.6	133.6	134.3	134.3
20°	611.3	499.7	292.1	161.3	132.2	125.1	123.7	123.7	124.4	125.1	125.1
22.5°	642.6	503.9	263.0	140.0	122.3	115.9	113.7	113.7	113.7	114.4	114.4
25°	669.6	503.9	233.8	126.5	113.7	107.3	104.5	103.8	104.5	104.5	104.5
27.5°	692.3	501.8	205.4	117.3	105.2	98.8	96.0	95.2	96.7	97.4	97.4
30°	716.5	499.0	182.7	108.8	98.1	91.7	88.8	88.8	91.0	93.8	93.8
32.5°	739.9	501.1	164.9	101.6	91.0	86.0	83.2	83.9	88.1	92.4	92.4
35°	764.8	505.4	154.2	96.7	86.0	81.0	78.9	81.0	85.3	89.6	89.6
37.5°	789.7	510.3	147.8	92.4	81.7	76.8	75.3	78.2	83.2	87.4	88.1
40°	816.0	514.6	140.7	88.1	78.9	73.2	72.5	75.3	81.7	86.0	86.7
42.5°	848.7	523.1	132.2	84.6	76.1	68.9	69.7	71.8	78.2	84.6	85.3
45°	912.7	550.1	123.7	81.0	72.5	66.8	65.4	66.8	73.9	81.0	82.5
47.5°	1032.8	611.3	114.4	77.5	68.9	65.4	59.7	61.1	67.5	75.3	76.1
50°	1263.1	741.4	109.5	73.9	66.1	60.4	54.0	54.0	59.0	66.1	66.1
52.5°	1622.0	974.5	112.3	71.1	62.5	55.4	49.0	48.3	51.2	56.2	56.2
55°	2009.4	1230.4	123.0	68.2	58.3	52.6	45.5	41.9	44.1	46.9	46.9
57.5°	2316.5	1359.0	152.1	66.8	53.3	50.5	41.2	36.3	38.4	41.2	41.2
60°	2451.5	1283.7	184.8	68.2	49.8	46.9	37.0	32.0	35.5	38.4	39.1
62.5°	2342.0	1056.9	198.3	64.7	44.8	41.9	36.3	29.9	34.1	36.3	37.0
65°	2105.4	803.2	155.0	56.2	41.2	36.3	32.7	28.4	32.0	34.1	34.1
66°	1993.0	700.1	132.2	51.9	39.8	34.1	31.3	28.4	31.3	32.7	33.4
67.5°	1818.9	552.3	98.1	45.5	37.0	31.3	29.1	27.0	29.9	31.3	31.3
70°	1422.3	329.1	59.0	35.5	32.0	27.7	26.3	24.9	27.0	27.7	27.7
72.5°	890.6	156.4	37.7	26.3	27.0	26.3	22.0	23.5	24.2	24.9	24.9
75°	431.4	61.8	25.6	19.2	22.0	24.9	17.8	20.6	21.3	22.7	22.0
77.5°	120.1	29.9	16.3	14.2	19.2	19.2	13.5	16.3	19.2	24.2	22.0
80°	34.8	19.2	10.7	10.7	13.5	13.5	9.2	11.4	12.8	14.2	14.9
82.5°	24.2	12.8	7.1	7.8	7.8	8.5	5.7	5.7	7.1	7.1	7.8
85°	19.2	5.7	4.3	5.0	3.6	4.3	2.8	2.8	3.6	2.8	2.8
87.5°	7.8	2.8	2.8	2.8	2.1	2.1	1.4	0.7	0.7	0.7	0.7
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)