

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: P1210170

Luminaire Tested: **ARCH2-40-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210170
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: ARCH2-40-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

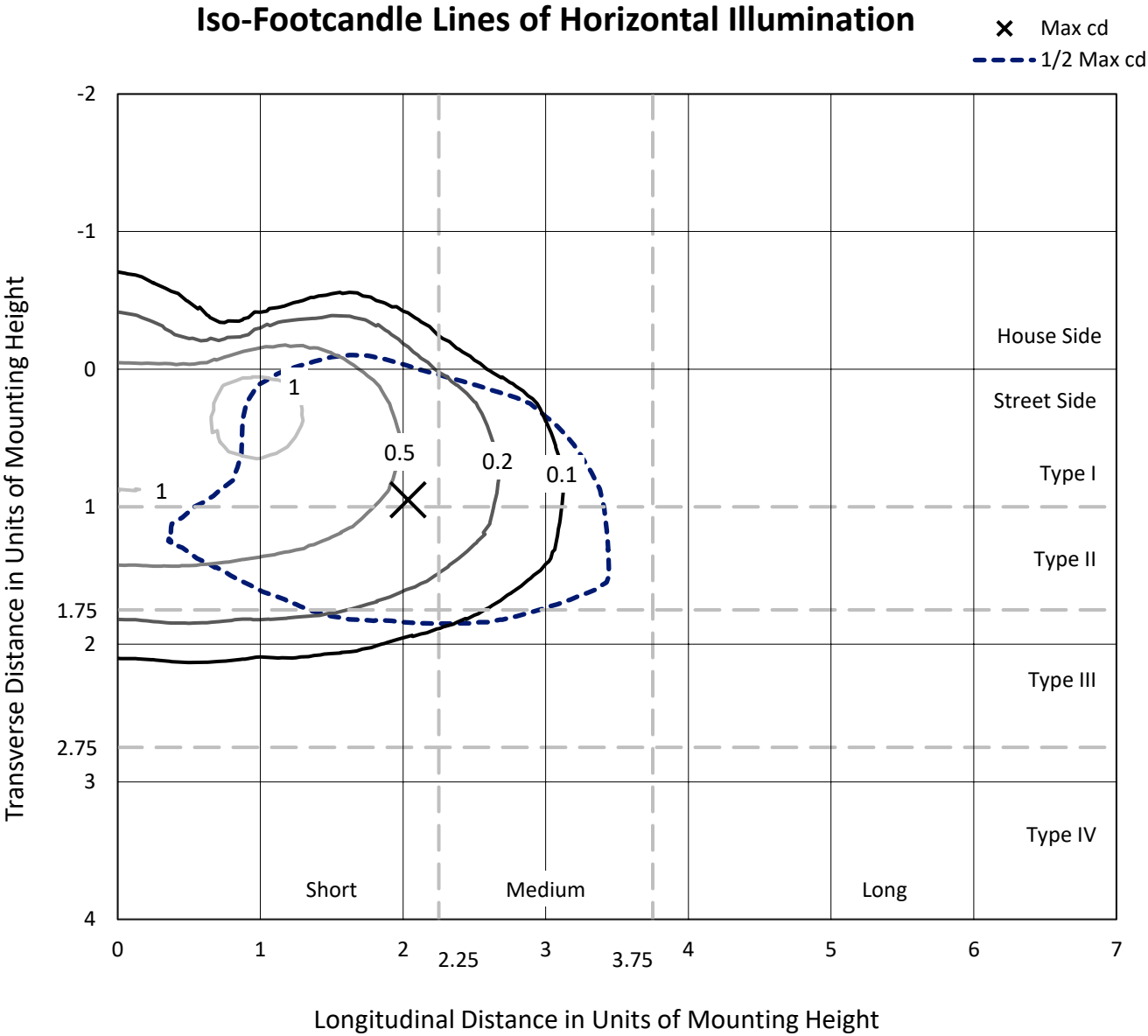
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4462 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44.1
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

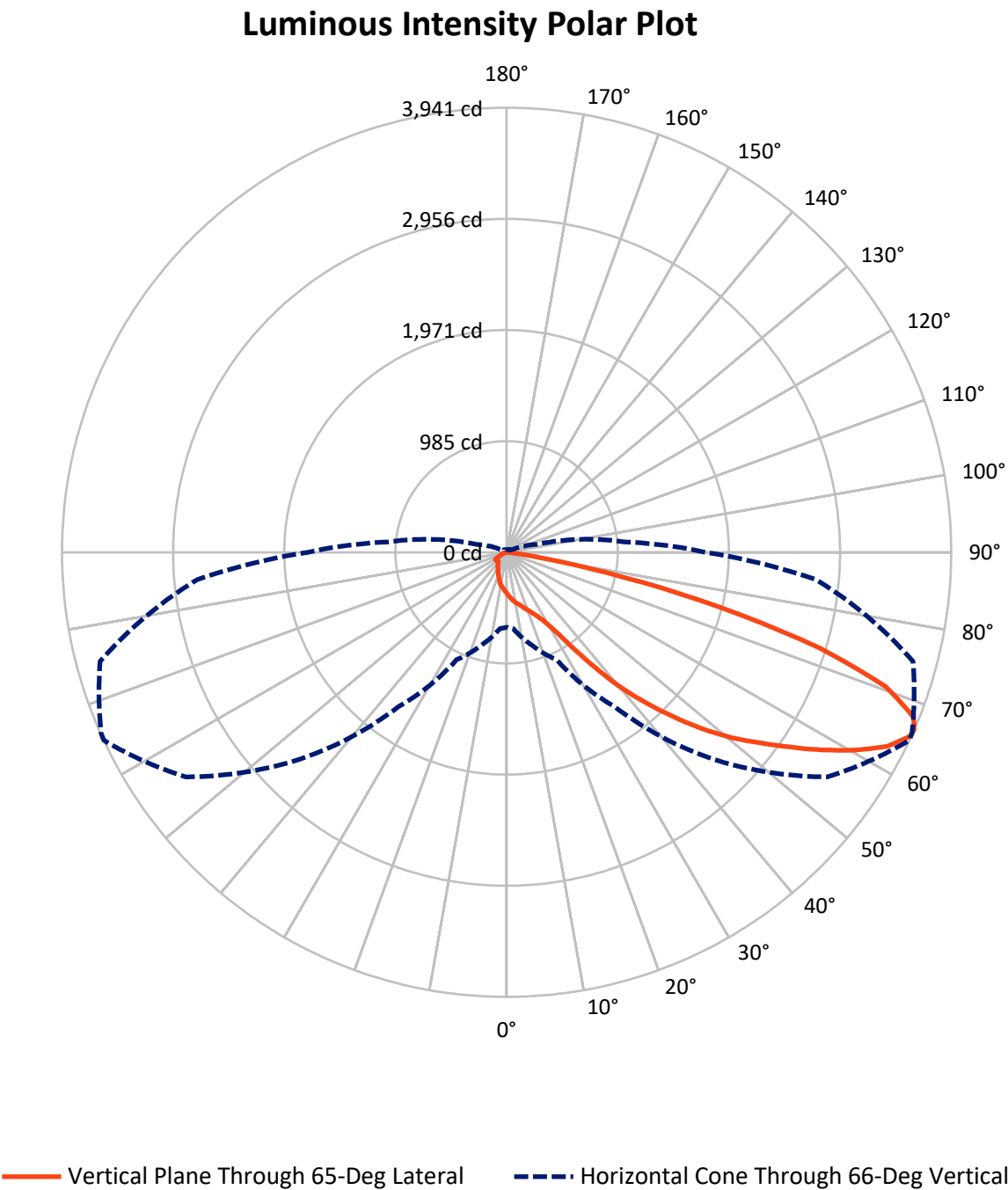


REPORT NUMBER: P1210170
CATALOG NUMBER: ARCH2-40-727-U-T3RE-HSS



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	526.6	0.0	526.6
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	3935.4	0.0	3935.4
	% Fixture	88.2	0.0	88.2
Total	Lumens	4462.0	0.0	4462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	0.8
10°-20°	102.0	2.3
20°-30°	186.7	4.2
30°-40°	379.4	8.5
40°-50°	801.3	18.0
50°-60°	1231.8	27.6
60°-70°	1239.9	27.8
70°-80°	463.3	10.4
80°-90°	23.1	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°	4462.0	100.0
0°-180°	4462.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210170

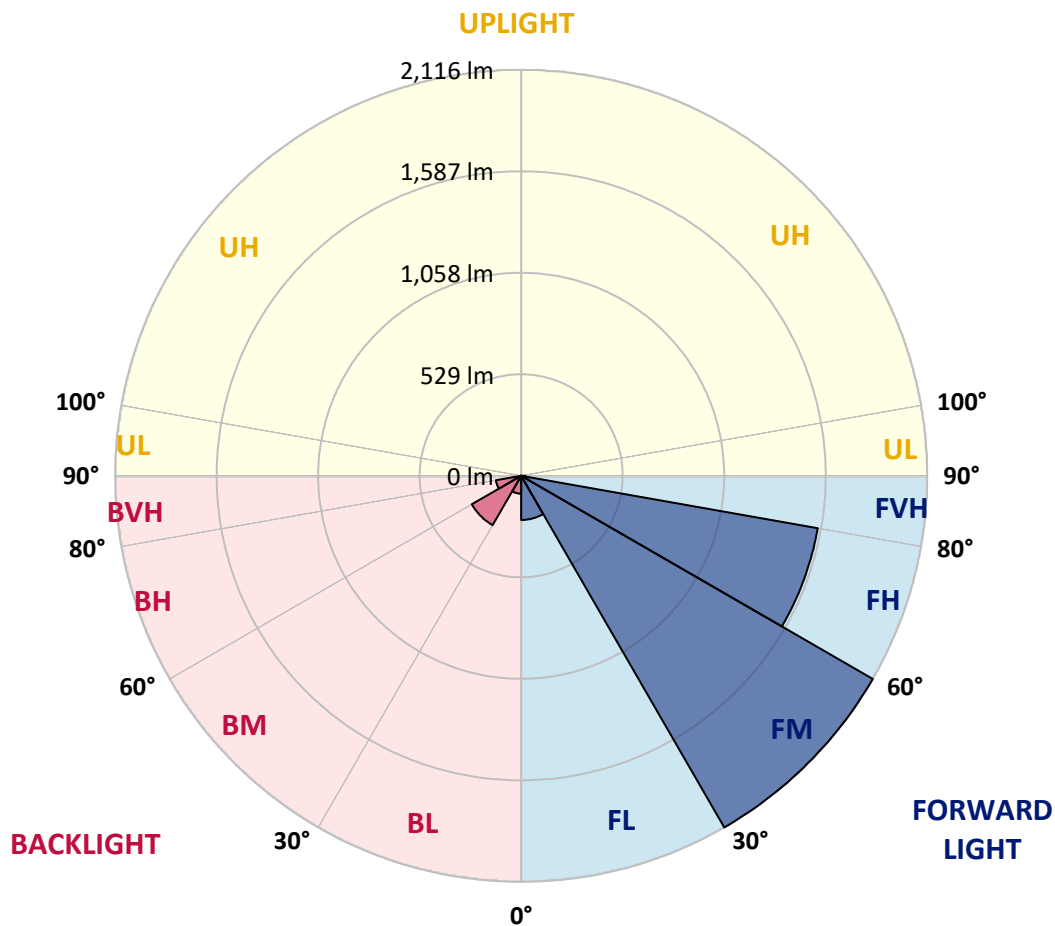
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	230.0	5.2			
FM	(30°-60°)	2115.6	47.4			
FH	(60°-80°)	1569.4	35.2			G1/1800
FVH	(80°-90°)	20.4	0.5			G1/100
BL	(0°-30°)	93.2	2.1	B0/110		
BM	(30°-60°)	296.9	6.7	B1/1000		
BH	(60°-80°)	133.8	3.0	B1/500		G1/500
BVH	(80°-90°)	2.7	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: P1210170

CATALOG NUMBER: ARCH2-40-727-U-T3RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5
2.5°	414.5	415.3	413.7	410.5	407.2	403.2	396.7	386.2	384.6	377.3	369.2
5°	442.9	444.5	442.1	441.3	439.6	434.0	425.1	409.7	408.1	393.5	374.9
7.5°	452.6	455.0	453.4	453.4	453.4	451.0	446.9	433.2	430.7	412.1	383.8
10°	459.9	461.5	460.7	463.9	466.4	464.7	462.3	454.2	451.8	433.2	395.9
12.5°	471.2	472.0	472.8	474.4	478.5	480.1	479.3	472.0	470.4	457.4	411.3
15°	481.7	481.7	482.5	489.8	495.5	498.7	499.5	493.9	492.3	481.7	430.7
17.5°	491.5	492.3	494.7	502.8	512.5	519.0	523.0	520.6	518.2	510.1	453.4
20°	506.0	507.6	510.1	521.4	531.1	541.6	549.7	548.9	548.1	542.5	480.1
22.5°	531.1	532.7	536.8	547.3	557.0	570.0	583.7	582.9	580.5	576.5	511.7
25°	569.2	569.2	571.6	580.5	592.7	608.0	621.0	623.4	621.0	618.6	551.4
27.5°	616.9	617.8	617.8	627.5	638.8	658.2	674.4	676.9	676.9	674.4	604.8
30°	683.3	680.9	679.3	687.4	699.5	727.9	756.2	761.1	758.6	762.7	680.1
32.5°	797.5	793.4	779.7	781.3	788.6	827.5	875.2	892.2	891.4	898.7	801.5
35°	955.4	947.3	927.0	910.0	909.2	951.3	1024.2	1088.2	1087.3	1112.4	986.1
37.5°	1133.5	1144.0	1106.0	1076.8	1067.9	1101.1	1195.0	1333.5	1340.8	1384.5	1228.2
40°	1371.5	1378.0	1329.4	1288.1	1246.0	1258.2	1382.1	1597.4	1610.4	1658.9	1470.3
42.5°	1578.8	1585.3	1556.9	1506.7	1453.3	1430.6	1570.7	1837.1	1847.6	1914.8	1719.7
45°	1719.7	1724.5	1734.2	1739.1	1678.4	1631.4	1801.4	2083.2	2096.2	2173.9	1963.4
47.5°	1829.8	1833.8	1853.3	1901.8	1889.7	1852.5	2036.2	2339.0	2342.3	2428.9	2200.6
50°	1880.8	1890.5	1938.3	2012.8	2066.2	2076.7	2291.3	2581.1	2590.0	2672.6	2424.9
52.5°	1824.1	1827.4	1948.0	2088.1	2195.7	2302.6	2547.1	2805.4	2831.3	2892.8	2626.5
55°	1633.0	1656.5	1839.5	2085.6	2297.8	2517.2	2820.8	3047.5	3071.0	3109.8	2803.8
57.5°	1411.2	1437.1	1659.8	1981.2	2341.5	2715.5	3074.2	3304.9	3321.1	3331.7	2966.5
60°	1219.3	1243.6	1472.7	1781.2	2297.8	2855.6	3309.8	3560.8	3574.6	3546.2	3048.3
62.5°	983.7	1008.0	1238.7	1516.5	2126.1	2883.9	3484.7	3788.3	3794.0	3717.0	2998.1
65°	741.6	757.8	950.5	1188.5	1825.7	2733.3	3524.4	3930.0	3924.3	3766.4	2847.5
66°	664.7	678.5	848.5	1050.9	1669.5	2595.7	3470.9	3941.3	3935.7	3730.0	2748.7
67.5°	573.2	577.3	717.3	859.8	1396.6	2303.4	3308.2	3889.5	3894.4	3629.6	2568.2
70°	447.7	446.9	527.9	598.3	953.8	1638.7	2759.2	3563.2	3586.7	3250.7	2190.1
72.5°	286.6	276.9	323.9	366.0	555.4	951.3	2012.0	2904.2	2943.8	2553.6	1631.4
75°	170.8	161.1	172.5	183.0	266.4	457.4	1182.9	1976.3	2014.4	1637.1	970.8
77.5°	127.9	123.9	124.7	115.8	118.2	171.6	540.0	1044.4	1072.0	670.4	368.4
80°	98.0	87.4	81.8	85.8	77.7	68.0	200.8	359.5	376.5	158.7	76.9
82.5°	65.6	56.7	52.6	57.5	49.4	38.1	48.6	69.6	68.0	42.9	30.0
85°	34.0	29.1	29.1	29.1	25.1	18.6	21.1	28.3	28.3	22.7	17.8
87.5°	9.7	8.9	10.5	9.7	7.3	7.3	8.1	9.7	9.7	8.9	8.1
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: P1210170

CATALOG NUMBER: ARCH2-40-727-U-T3RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5	363.5
2.5°	362.7	359.5	350.6	344.1	337.6	332.0	325.5	323.9	320.6	321.4	319.8
5°	365.1	356.2	340.9	326.3	314.9	305.2	293.1	288.2	281.8	279.3	277.7
7.5°	368.4	355.4	332.8	312.5	293.1	273.7	254.2	242.9	235.6	232.4	229.9
10°	375.7	358.7	328.7	297.1	263.9	236.4	217.0	208.9	204.0	203.2	202.4
12.5°	385.4	363.5	324.7	277.7	234.0	208.1	195.9	193.5	192.7	192.7	191.9
15°	400.0	371.6	318.2	255.0	210.5	192.7	187.0	183.0	181.4	181.4	181.4
17.5°	414.5	381.3	308.5	231.6	194.3	183.0	177.3	174.9	173.3	174.1	173.3
20°	433.2	392.7	295.5	211.3	183.8	174.9	169.2	166.8	166.0	166.0	166.0
22.5°	454.2	405.6	279.3	195.9	174.9	166.8	161.1	158.7	157.1	157.9	157.9
25°	482.5	421.8	262.3	180.5	166.0	158.7	152.2	149.0	149.0	149.8	150.6
27.5°	519.0	441.3	245.3	170.8	157.9	150.6	143.3	140.1	140.9	142.5	142.5
30°	572.4	468.0	228.3	160.3	149.0	140.9	134.4	131.2	132.8	136.0	136.0
32.5°	648.5	511.7	213.7	148.2	136.0	127.1	120.6	118.2	122.3	128.7	128.7
35°	784.5	591.8	204.8	136.0	122.3	111.7	103.6	101.2	106.9	115.0	115.0
37.5°	966.7	720.6	208.1	125.5	110.9	98.8	89.9	86.6	90.7	98.0	100.4
40°	1169.9	876.0	236.4	116.6	100.4	88.3	79.3	76.1	78.5	81.8	82.6
42.5°	1373.1	1041.2	289.9	110.1	92.3	79.3	71.2	68.8	70.4	71.2	72.1
45°	1575.6	1204.7	357.1	106.1	85.0	72.1	64.0	64.0	64.8	64.8	64.8
47.5°	1767.4	1364.2	427.5	105.3	78.5	64.8	58.3	59.1	59.1	59.9	59.9
50°	1948.8	1506.7	498.7	107.7	72.9	58.3	53.4	53.4	53.4	54.2	53.4
52.5°	2100.2	1631.4	573.2	111.7	67.2	53.4	48.6	48.6	48.6	49.4	48.6
55°	2243.5	1744.8	649.3	117.4	62.3	49.4	44.5	42.9	42.9	43.7	42.9
57.5°	2360.1	1820.1	721.4	118.2	58.3	45.3	41.3	38.9	38.9	38.9	38.9
60°	2365.0	1776.3	742.4	103.6	53.4	41.3	37.2	34.0	34.8	34.8	34.8
62.5°	2210.3	1546.4	596.7	77.7	47.8	37.2	34.0	30.8	30.8	30.8	30.8
65°	1906.7	1203.1	349.8	61.5	41.3	33.2	30.0	27.5	27.5	27.5	26.7
66°	1764.2	1055.0	268.0	55.9	38.9	32.4	29.1	26.7	25.9	25.1	25.1
67.5°	1531.8	833.9	167.6	49.4	35.6	30.0	26.7	24.3	23.5	22.7	22.7
70°	1153.7	529.5	81.8	38.1	30.8	25.9	23.5	21.1	20.2	19.4	18.6
72.5°	809.6	310.1	42.9	29.1	25.1	22.7	20.2	17.8	17.0	16.2	16.2
75°	457.4	149.8	28.3	21.1	20.2	18.6	17.0	14.6	13.8	13.8	13.8
77.5°	173.3	51.8	19.4	15.4	16.2	14.6	12.1	12.1	11.3	12.1	11.3
80°	45.3	22.7	12.1	11.3	12.1	10.5	8.9	9.7	9.7	9.7	9.7
82.5°	24.3	13.0	7.3	8.1	7.3	7.3	5.7	6.5	7.3	6.5	7.3
85°	17.0	6.5	4.0	4.0	3.2	3.2	2.4	3.2	4.0	3.2	3.2
87.5°	8.9	2.4	2.4	2.4	2.4	1.6	0.8	0.0	0.8	0.8	0.8
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)