

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: P1209992

Luminaire Tested: **ARCH1-40-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1209992
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: ARCH1-40-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 1220mA LIGHTSQUARE WITH 10 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

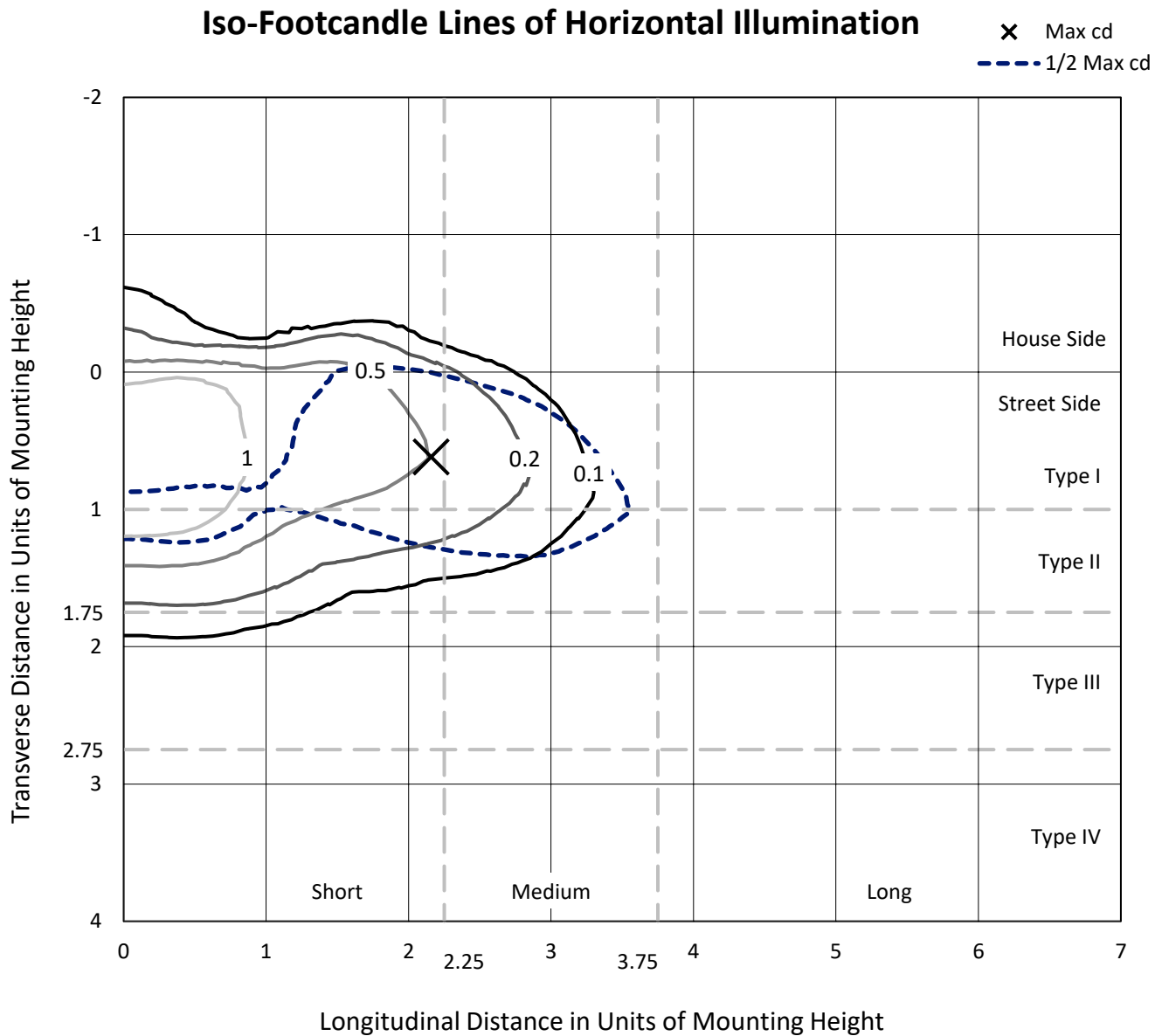
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4308 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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



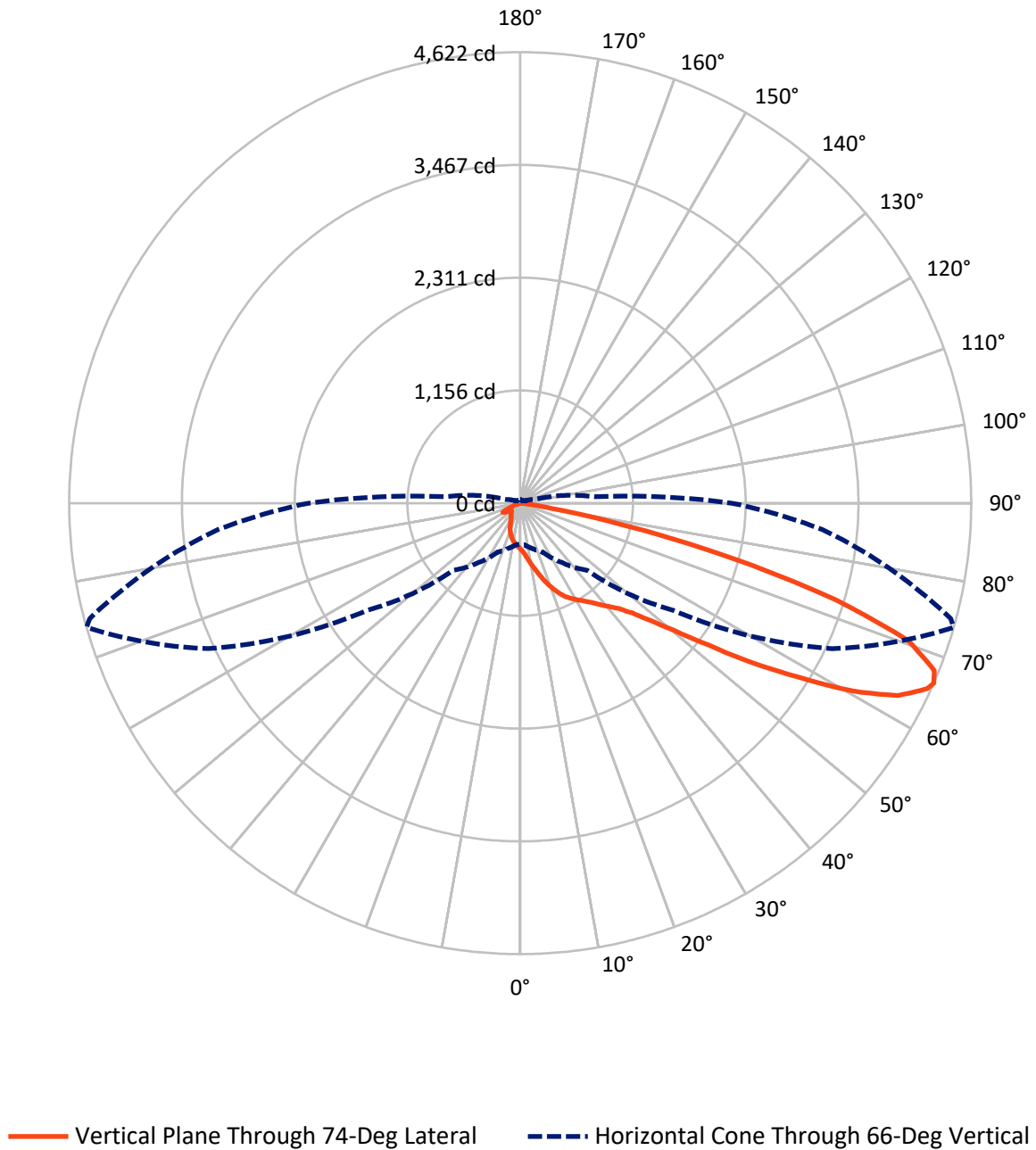
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Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	422.3	0.0	422.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	3885.7	0.0	3885.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	4308.0	0.0	4308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.9	1.1
10°-20°	147.1	3.4
20°-30°	280.8	6.5
30°-40°	492.2	11.4
40°-50°	844.0	19.6
50°-60°	1097.7	25.5
60°-70°	993.7	23.1
70°-80°	383.4	8.9
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°	4308.0	100.0
0°-180°	4308.0	100.0

Coefficient of Utilization



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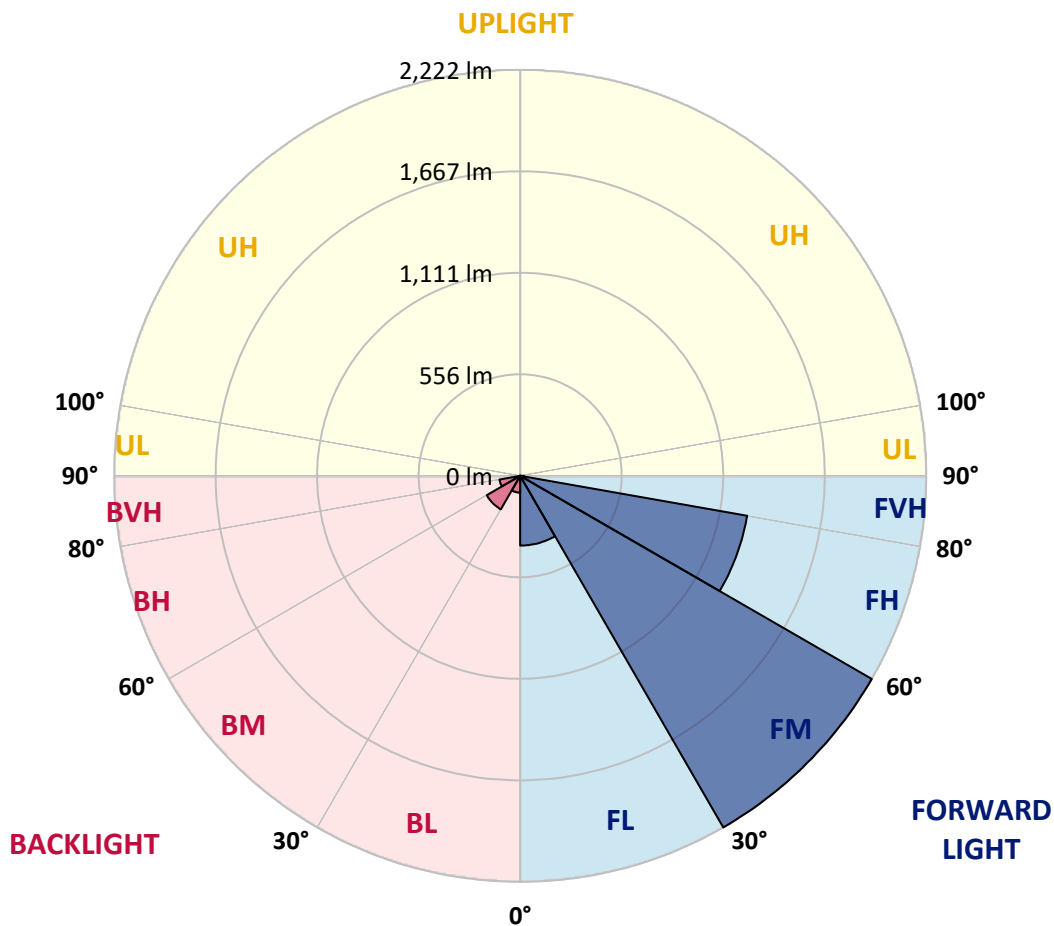
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	381.8	8.9			
FM	(30°-60°)	2222.3	51.6			
FH	(60°-80°)	1261.7	29.3			G1/1800
FVH	(80°-90°)	20.0	0.5			G1/100
BL	(0°-30°)	92.1	2.1	B0/110		
BM	(30°-60°)	211.7	4.9	B0/220		
BH	(60°-80°)	115.5	2.7	B1/500		G1/500
BVH	(80°-90°)	3.1	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3
2.5°	564.6	560.0	551.5	550.7	543.7	535.2	520.5	505.1	494.2	492.7	479.5
5°	676.0	673.7	665.2	659.7	646.6	626.5	592.5	558.4	529.8	526.7	497.3
7.5°	705.4	706.9	708.5	713.9	709.3	700.0	674.4	626.5	581.6	574.7	523.6
10°	710.0	708.5	708.5	715.4	728.6	741.7	738.6	697.6	639.6	631.1	560.0
12.5°	760.3	762.6	757.2	754.1	751.8	758.8	782.0	764.2	700.7	693.8	604.1
15°	825.3	824.5	816.8	816.8	809.8	798.2	812.9	826.0	774.2	765.7	654.3
17.5°	872.4	875.5	874.8	879.4	877.1	861.6	853.9	881.0	850.0	839.2	711.6
20°	910.3	918.9	921.9	936.6	943.6	932.8	912.7	929.7	922.7	912.7	769.6
22.5°	950.6	957.5	962.9	988.5	1007.8	1005.5	980.0	976.1	993.1	983.8	826.8
25°	990.8	993.9	1010.1	1041.1	1072.0	1079.7	1053.4	1023.3	1056.5	1048.0	877.9
27.5°	1034.9	1036.4	1055.8	1093.7	1137.0	1153.2	1132.3	1076.6	1105.3	1105.3	924.3
30°	1115.3	1130.8	1138.5	1172.5	1210.4	1232.9	1208.1	1133.1	1148.6	1155.5	973.0
32.5°	1288.6	1290.9	1288.6	1303.3	1311.0	1324.1	1295.5	1196.5	1192.7	1200.4	1020.9
35°	1553.1	1543.8	1519.0	1497.4	1452.5	1427.8	1390.7	1277.7	1246.8	1257.6	1068.1
37.5°	1874.1	1860.9	1804.5	1737.9	1642.0	1543.0	1496.6	1376.7	1315.6	1329.6	1119.2
40°	2180.3	2171.8	2104.5	2022.6	1858.6	1689.2	1591.0	1460.3	1392.2	1397.6	1171.0
42.5°	2432.5	2430.9	2374.5	2288.6	2078.3	1847.0	1702.4	1542.3	1472.6	1481.1	1225.1
45°	2623.5	2608.8	2567.1	2505.2	2290.9	2011.0	1836.9	1666.8	1601.8	1611.9	1306.4
47.5°	2623.5	2625.9	2652.9	2646.7	2439.5	2164.9	1983.9	1823.8	1792.8	1802.1	1440.2
50°	2410.1	2431.7	2552.4	2653.7	2516.8	2284.8	2142.4	2020.2	2052.0	2065.9	1673.7
52.5°	1987.8	2024.1	2233.7	2465.0	2459.6	2345.1	2306.4	2270.1	2412.4	2437.1	2018.7
55°	1510.5	1534.5	1807.5	2111.5	2210.5	2295.6	2449.5	2587.2	2889.6	2884.2	2369.1
57.5°	1128.5	1150.9	1386.0	1723.2	1854.0	2081.3	2523.0	2949.9	3362.9	3383.8	2697.8
60°	829.9	846.9	1047.2	1324.1	1512.9	1753.4	2493.6	3307.3	3908.2	3884.2	2987.8
62.5°	614.1	623.4	768.0	948.2	1198.8	1428.6	2308.7	3551.7	4343.7	4294.9	3149.5
65°	474.9	478.0	553.0	648.9	871.7	1110.7	2033.4	3588.8	4584.2	4532.4	3146.4
66°	423.1	425.4	480.3	554.6	741.7	972.2	1912.7	3529.2	4622.1	4567.2	3107.7
67.5°	355.0	353.5	385.9	434.7	556.9	750.2	1698.5	3355.2	4577.3	4549.4	2984.0
70°	263.0	263.7	280.0	291.6	325.6	415.3	1226.7	2910.5	4218.4	4216.8	2644.4
72.5°	194.9	197.2	209.6	211.9	203.4	225.1	706.9	2314.9	3374.5	3375.3	1976.9
75°	146.2	150.0	153.9	155.5	147.7	142.3	319.4	1557.7	2219.8	2203.5	1119.2
77.5°	111.4	112.9	116.0	113.7	112.1	98.2	133.0	759.5	1096.0	998.5	362.7
80°	81.2	81.2	84.3	81.2	80.4	70.4	72.7	243.6	321.8	267.6	78.1
82.5°	51.0	50.3	52.6	51.8	50.3	44.9	42.5	68.1	74.3	66.5	37.9
85°	28.6	27.8	27.1	26.3	24.0	20.1	23.2	25.5	34.0	34.8	27.1
87.5°	10.1	10.1	9.3	8.5	7.0	7.0	8.5	8.5	12.4	12.4	13.9
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°	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3	470.3
2.5°	473.3	464.8	452.5	436.2	424.6	413.0	400.6	393.7	383.6	381.3	384.4
5°	481.9	466.4	435.5	401.4	372.0	345.7	321.0	306.3	291.6	286.2	288.5
7.5°	499.6	473.3	420.8	365.8	317.1	277.7	248.3	231.3	218.1	212.7	214.2
10°	525.9	485.7	406.8	325.6	263.0	221.2	196.5	185.6	177.9	174.8	175.6
12.5°	557.7	503.5	389.0	285.4	216.6	180.2	168.6	166.3	164.7	163.2	164.0
15°	593.2	519.0	368.2	246.0	180.2	160.1	156.2	155.5	154.7	154.7	154.7
17.5°	630.4	532.9	345.0	208.8	157.0	147.7	145.4	145.4	145.4	146.2	146.2
20°	665.2	543.7	317.9	175.6	143.9	136.1	134.6	134.6	135.4	136.1	136.1
22.5°	699.2	548.4	286.2	152.4	133.0	126.1	123.8	123.8	123.8	124.5	124.5
25°	728.6	548.4	254.5	137.7	123.8	116.8	113.7	112.9	113.7	113.7	113.7
27.5°	753.3	546.1	223.5	127.6	114.5	107.5	104.4	103.6	105.2	106.0	106.0
30°	779.6	543.0	198.8	118.3	106.7	99.8	96.7	96.7	99.0	102.1	102.1
32.5°	805.2	545.3	179.4	110.6	99.0	93.6	90.5	91.3	95.9	100.5	100.5
35°	832.2	549.9	167.8	105.2	93.6	88.2	85.9	88.2	92.8	97.5	97.5
37.5°	859.3	555.3	160.9	100.5	88.9	83.5	82.0	85.1	90.5	95.1	95.9
40°	887.9	560.0	153.1	95.9	85.9	79.7	78.9	82.0	88.9	93.6	94.4
42.5°	923.5	569.3	143.9	92.0	82.8	75.0	75.8	78.1	85.1	92.0	92.8
45°	993.1	598.6	134.6	88.2	78.9	72.7	71.2	72.7	80.4	88.2	89.7
47.5°	1123.8	665.2	124.5	84.3	75.0	71.2	65.0	66.5	73.5	82.0	82.8
50°	1374.4	806.7	119.1	80.4	71.9	65.7	58.8	58.8	64.2	71.9	71.9
52.5°	1765.0	1060.4	122.2	77.3	68.1	60.3	53.4	52.6	55.7	61.1	61.1
55°	2186.5	1338.8	133.8	74.3	63.4	57.2	49.5	45.6	48.0	51.0	51.0
57.5°	2520.7	1478.8	165.5	72.7	58.0	54.9	44.9	39.4	41.8	44.9	44.9
60°	2667.6	1396.8	201.1	74.3	54.1	51.0	40.2	34.8	38.7	41.8	42.5
62.5°	2548.5	1150.1	215.8	70.4	48.7	45.6	39.4	32.5	37.1	39.4	40.2
65°	2290.9	874.0	168.6	61.1	44.9	39.4	35.6	30.9	34.8	37.1	37.1
66°	2168.7	761.8	143.9	56.5	43.3	37.1	34.0	30.9	34.0	35.6	36.4
67.5°	1979.2	601.0	106.7	49.5	40.2	34.0	31.7	29.4	32.5	34.0	34.0
70°	1547.7	358.1	64.2	38.7	34.8	30.2	28.6	27.1	29.4	30.2	30.2
72.5°	969.1	170.2	41.0	28.6	29.4	28.6	24.0	25.5	26.3	27.1	27.1
75°	469.5	67.3	27.8	20.9	24.0	27.1	19.3	22.4	23.2	24.8	24.0
77.5°	130.7	32.5	17.8	15.5	20.9	20.9	14.7	17.8	20.9	26.3	24.0
80°	37.9	20.9	11.6	11.6	14.7	14.7	10.1	12.4	13.9	15.5	16.2
82.5°	26.3	13.9	7.7	8.5	8.5	9.3	6.2	6.2	7.7	7.7	8.5
85°	20.9	6.2	4.6	5.4	3.9	4.6	3.1	3.1	3.9	3.1	3.1
87.5°	8.5	3.1	3.1	3.1	2.3	2.3	1.5	0.8	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)