

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: P1210684

Luminaire Tested: **ARCH3-40-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210684
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: ARCH3-40-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 345mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

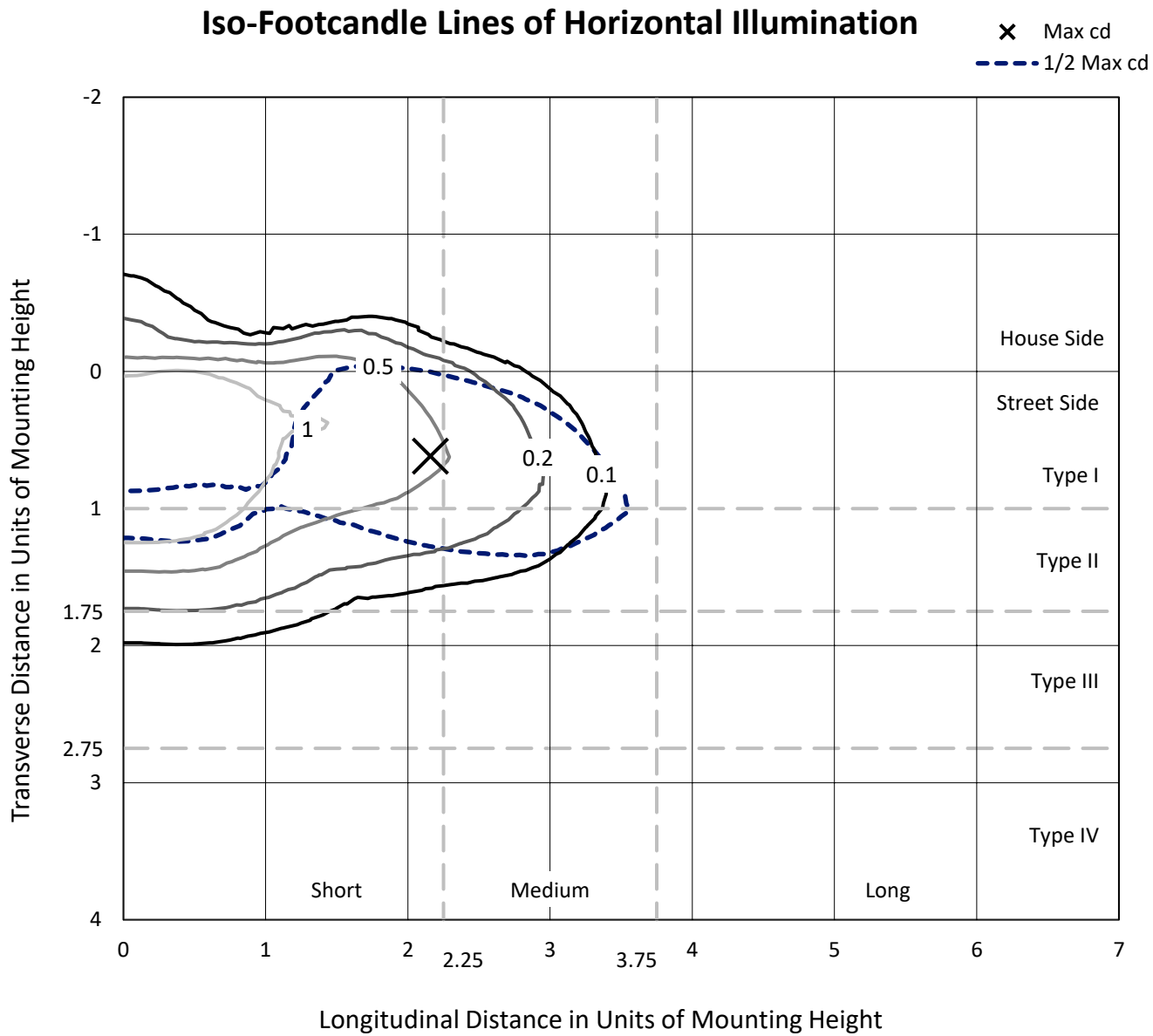
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5058 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 43.6
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



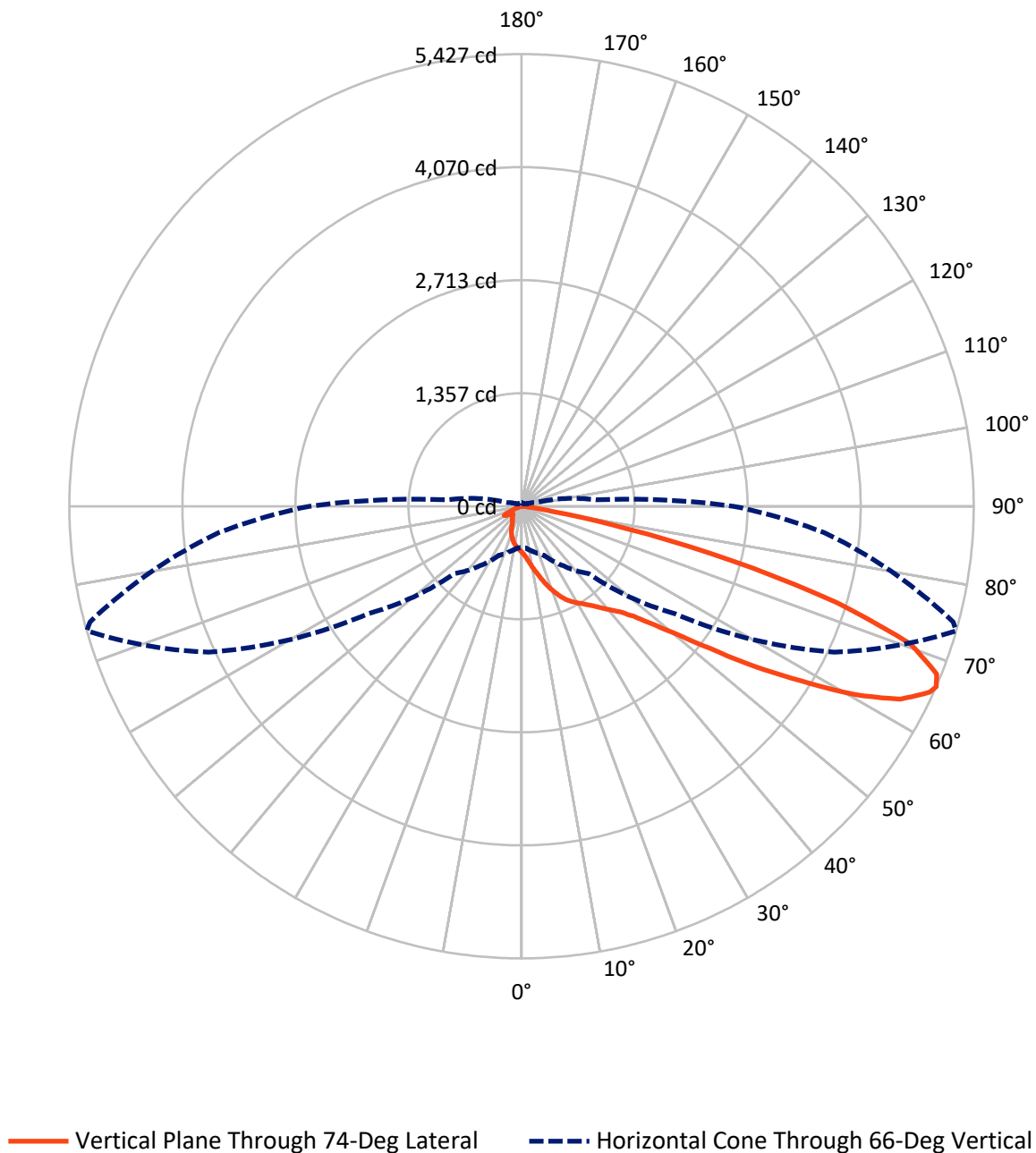
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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	495.8	0.0	495.8
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4562.2	0.0	4562.2
	% Fixture	90.2	0.0	90.2
Total	Lumens	5058.0	0.0	5058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.1
10°-20°	172.8	3.4
20°-30°	329.7	6.5
30°-40°	577.9	11.4
40°-50°	991.0	19.6
50°-60°	1288.8	25.5
60°-70°	1166.7	23.1
70°-80°	450.2	8.9
80°-90°	27.1	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°	5058.0	100.0
0°-180°	5058.0	100.0

Coefficient of Utilization



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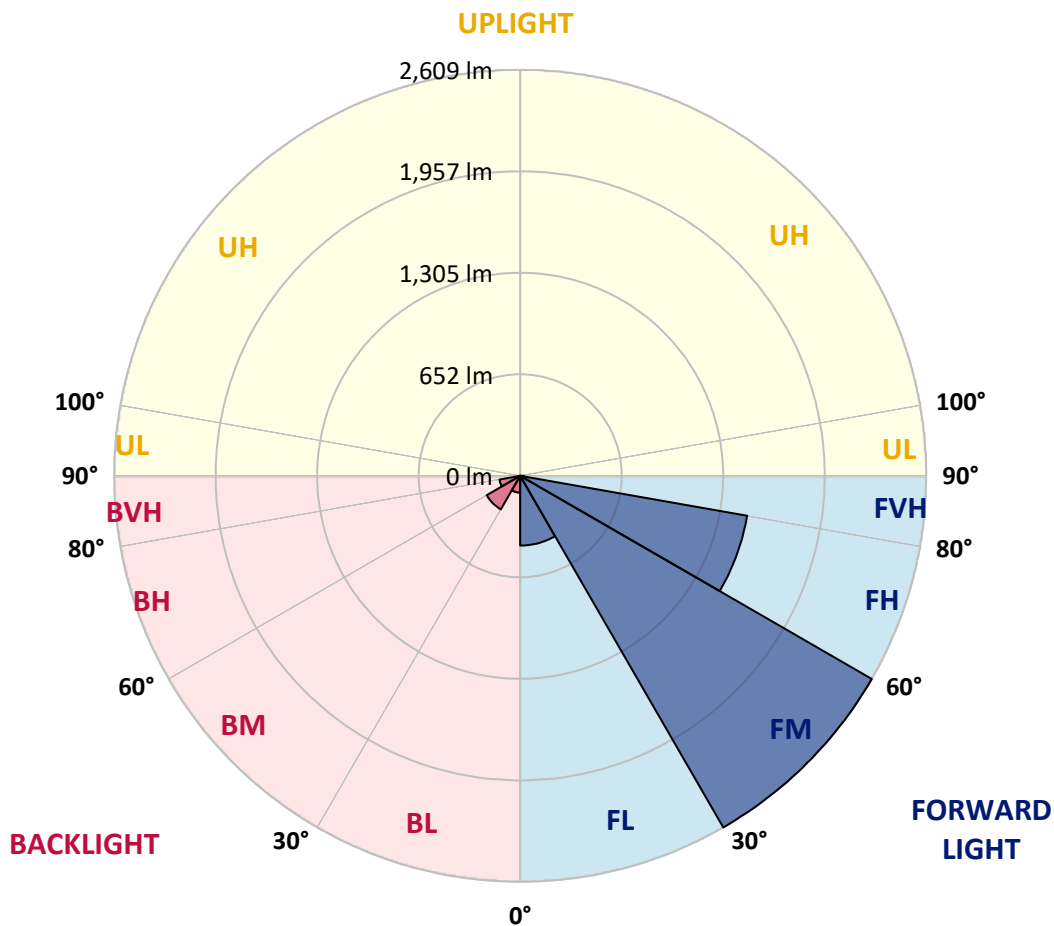
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	448.2	8.9			
FM	(30°-60°)	2609.2	51.6			
FH	(60°-80°)	1481.3	29.3			G1/1800
FVH	(80°-90°)	23.5	0.5			G1/100
BL	(0°-30°)	108.2	2.1	B0/110		
BM	(30°-60°)	248.5	4.9	B1/1000		
BH	(60°-80°)	135.6	2.7	B1/500		G1/500
BVH	(80°-90°)	3.6	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°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	662.9	657.5	647.5	646.6	638.4	628.4	611.2	593.0	580.3	578.5	563.0
5°	793.7	791.0	781.0	774.6	759.2	735.6	695.6	655.6	622.0	618.4	583.9
7.5°	828.2	830.0	831.8	838.2	832.7	821.8	791.9	735.6	682.9	674.7	614.8
10°	833.6	831.8	831.8	840.0	855.4	870.9	867.2	819.1	751.0	741.0	657.5
12.5°	892.7	895.4	889.0	885.4	882.7	890.8	918.1	897.2	822.7	814.6	709.2
15°	968.9	968.0	959.0	959.0	950.8	937.2	954.4	969.9	909.0	899.0	768.3
17.5°	1024.3	1028.0	1027.1	1032.5	1029.8	1011.6	1002.5	1034.3	998.0	985.3	835.5
20°	1068.8	1078.8	1082.5	1099.7	1107.9	1095.2	1071.6	1091.5	1083.4	1071.6	903.6
22.5°	1116.1	1124.2	1130.6	1160.6	1183.3	1180.5	1150.6	1146.0	1166.0	1155.1	970.8
25°	1163.3	1166.9	1186.0	1222.3	1258.6	1267.7	1236.8	1201.4	1240.5	1230.5	1030.7
27.5°	1215.0	1216.9	1239.6	1284.1	1334.9	1354.0	1329.5	1264.1	1297.7	1297.7	1085.2
30°	1309.5	1327.6	1336.7	1376.7	1421.2	1447.5	1418.5	1330.4	1348.5	1356.7	1142.4
32.5°	1512.9	1515.6	1512.9	1530.1	1539.2	1554.7	1521.1	1404.8	1400.3	1409.4	1198.7
35°	1823.5	1812.6	1783.5	1758.1	1705.4	1676.4	1632.8	1500.2	1463.9	1476.6	1254.1
37.5°	2200.3	2184.9	2118.6	2040.5	1927.9	1811.7	1757.2	1616.4	1544.7	1561.0	1314.0
40°	2559.9	2549.9	2470.9	2374.7	2182.2	1983.3	1868.0	1714.5	1634.6	1640.9	1374.9
42.5°	2856.0	2854.2	2787.9	2687.1	2440.1	2168.5	1998.7	1810.8	1729.0	1739.0	1438.4
45°	3080.3	3063.0	3014.0	2941.3	2689.8	2361.1	2156.7	1957.0	1880.7	1892.5	1533.8
47.5°	3080.3	3083.0	3114.8	3107.5	2864.1	2541.8	2329.3	2141.3	2105.0	2115.9	1690.9
50°	2829.6	2855.1	2996.7	3115.7	2955.0	2682.5	2515.4	2372.0	2409.2	2425.5	1965.1
52.5°	2333.8	2376.5	2622.6	2894.1	2887.8	2753.4	2708.0	2665.3	2832.4	2861.4	2370.1
55°	1773.5	1801.7	2122.2	2479.1	2595.3	2695.2	2876.0	3037.6	3392.7	3386.3	2781.5
57.5°	1324.9	1351.3	1627.3	2023.2	2176.7	2443.7	2962.2	3463.5	3948.4	3972.9	3167.5
60°	974.4	994.4	1229.6	1554.7	1776.2	2058.7	2927.7	3883.0	4588.6	4560.5	3508.0
62.5°	721.0	731.9	901.7	1113.3	1407.6	1677.3	2710.7	4170.0	5099.9	5042.7	3697.8
65°	557.6	561.2	649.3	761.9	1023.4	1304.0	2387.4	4213.6	5382.3	5321.5	3694.1
66°	496.7	499.5	563.9	651.1	870.9	1141.5	2245.7	4143.7	5426.8	5362.3	3648.7
67.5°	416.8	415.0	453.1	510.4	653.8	880.9	1994.2	3939.3	5374.1	5341.4	3503.4
70°	308.8	309.7	328.7	342.4	382.3	487.6	1440.2	3417.2	4952.8	4951.0	3104.8
72.5°	228.8	231.6	246.1	248.8	238.8	264.3	830.0	2717.9	3962.0	3962.9	2321.1
75°	171.6	176.2	180.7	182.5	173.4	167.1	375.0	1828.9	2606.2	2587.2	1314.0
77.5°	130.8	132.6	136.2	133.5	131.7	115.3	156.2	891.8	1286.8	1172.4	425.9
80°	95.4	95.4	99.0	95.4	94.4	82.6	85.4	286.1	377.8	314.2	91.7
82.5°	59.9	59.0	61.8	60.8	59.0	52.7	49.9	79.9	87.2	78.1	44.5
85°	33.6	32.7	31.8	30.9	28.2	23.6	27.2	30.0	40.0	40.9	31.8
87.5°	11.8	11.8	10.9	10.0	8.2	8.2	10.0	10.0	14.5	14.5	16.3
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°	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1	552.1
2.5°	555.8	545.8	531.2	512.2	498.5	484.9	470.4	462.2	450.4	447.7	451.3
5°	565.7	547.6	511.3	471.3	436.8	405.9	376.9	359.6	342.4	336.0	338.7
7.5°	586.6	555.8	494.0	429.5	372.3	326.0	291.5	271.5	256.1	249.7	251.5
10°	617.5	570.3	477.7	382.3	308.8	259.7	230.7	217.9	208.9	205.2	206.1
12.5°	654.7	591.2	456.8	335.1	254.3	211.6	198.0	195.2	193.4	191.6	192.5
15°	696.5	609.3	432.3	288.8	211.6	188.0	183.4	182.5	181.6	181.6	181.6
17.5°	740.1	625.7	405.0	245.2	184.3	173.4	170.7	170.7	170.7	171.6	171.6
20°	781.0	638.4	373.2	206.1	168.9	159.8	158.0	158.0	158.9	159.8	159.8
22.5°	820.9	643.8	336.0	178.9	156.2	148.0	145.3	145.3	145.3	146.2	146.2
25°	855.4	643.8	298.8	161.6	145.3	137.1	133.5	132.6	133.5	133.5	133.5
27.5°	884.5	641.1	262.4	149.8	134.4	126.2	122.6	121.7	123.5	124.4	124.4
30°	915.4	637.5	233.4	138.9	125.3	117.1	113.5	113.5	116.2	119.9	119.9
32.5°	945.3	640.2	210.7	129.9	116.2	109.9	106.2	107.2	112.6	118.1	118.1
35°	977.1	645.7	197.1	123.5	109.9	103.5	100.8	103.5	109.0	114.4	114.4
37.5°	1008.9	652.0	188.9	118.1	104.4	98.1	96.3	99.9	106.2	111.7	112.6
40°	1042.5	657.5	179.8	112.6	100.8	93.5	92.6	96.3	104.4	109.9	110.8
42.5°	1084.3	668.4	168.9	108.1	97.2	88.1	89.0	91.7	99.9	108.1	109.0
45°	1166.0	702.9	158.0	103.5	92.6	85.4	83.5	85.4	94.4	103.5	105.3
47.5°	1319.5	781.0	146.2	99.0	88.1	83.5	76.3	78.1	86.3	96.3	97.2
50°	1613.7	947.1	139.8	94.4	84.5	77.2	69.0	69.0	75.4	84.5	84.5
52.5°	2072.3	1245.0	143.5	90.8	79.9	70.8	62.7	61.8	65.4	71.7	71.7
55°	2567.2	1571.9	157.1	87.2	74.5	67.2	58.1	53.6	56.3	59.9	59.9
57.5°	2959.5	1736.3	194.3	85.4	68.1	64.5	52.7	46.3	49.0	52.7	52.7
60°	3132.0	1640.0	236.1	87.2	63.6	59.9	47.2	40.9	45.4	49.0	49.9
62.5°	2992.2	1350.3	253.4	82.6	57.2	53.6	46.3	38.1	43.6	46.3	47.2
65°	2689.8	1026.2	198.0	71.7	52.7	46.3	41.8	36.3	40.9	43.6	43.6
66°	2546.3	894.5	168.9	66.3	50.9	43.6	40.0	36.3	40.0	41.8	42.7
67.5°	2323.8	705.6	125.3	58.1	47.2	40.0	37.2	34.5	38.1	40.0	40.0
70°	1817.1	420.5	75.4	45.4	40.9	35.4	33.6	31.8	34.5	35.4	35.4
72.5°	1137.8	199.8	48.1	33.6	34.5	33.6	28.2	30.0	30.9	31.8	31.8
75°	551.2	79.0	32.7	24.5	28.2	31.8	22.7	26.3	27.2	29.1	28.2
77.5°	153.5	38.1	20.9	18.2	24.5	24.5	17.3	20.9	24.5	30.9	28.2
80°	44.5	24.5	13.6	13.6	17.3	17.3	11.8	14.5	16.3	18.2	19.1
82.5°	30.9	16.3	9.1	10.0	10.0	10.9	7.3	7.3	9.1	9.1	10.0
85°	24.5	7.3	5.4	6.4	4.5	5.4	3.6	3.6	4.5	3.6	3.6
87.5°	10.0	3.6	3.6	3.6	2.7	2.7	1.8	0.9	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)