

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: P1210200

Luminaire Tested: **ARCH2-50-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210200
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: ARCH2-50-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 410mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

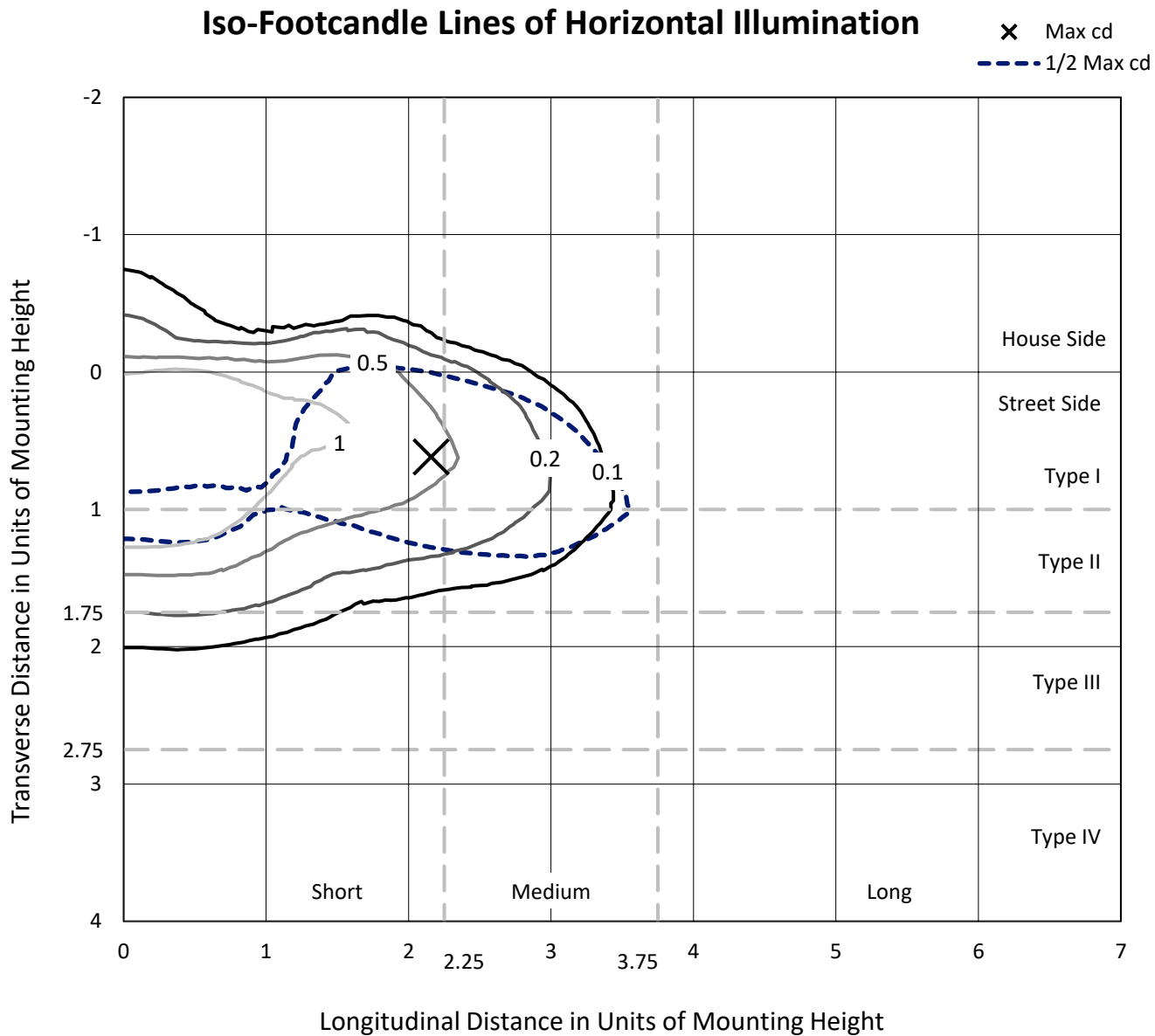
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5437 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 54
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



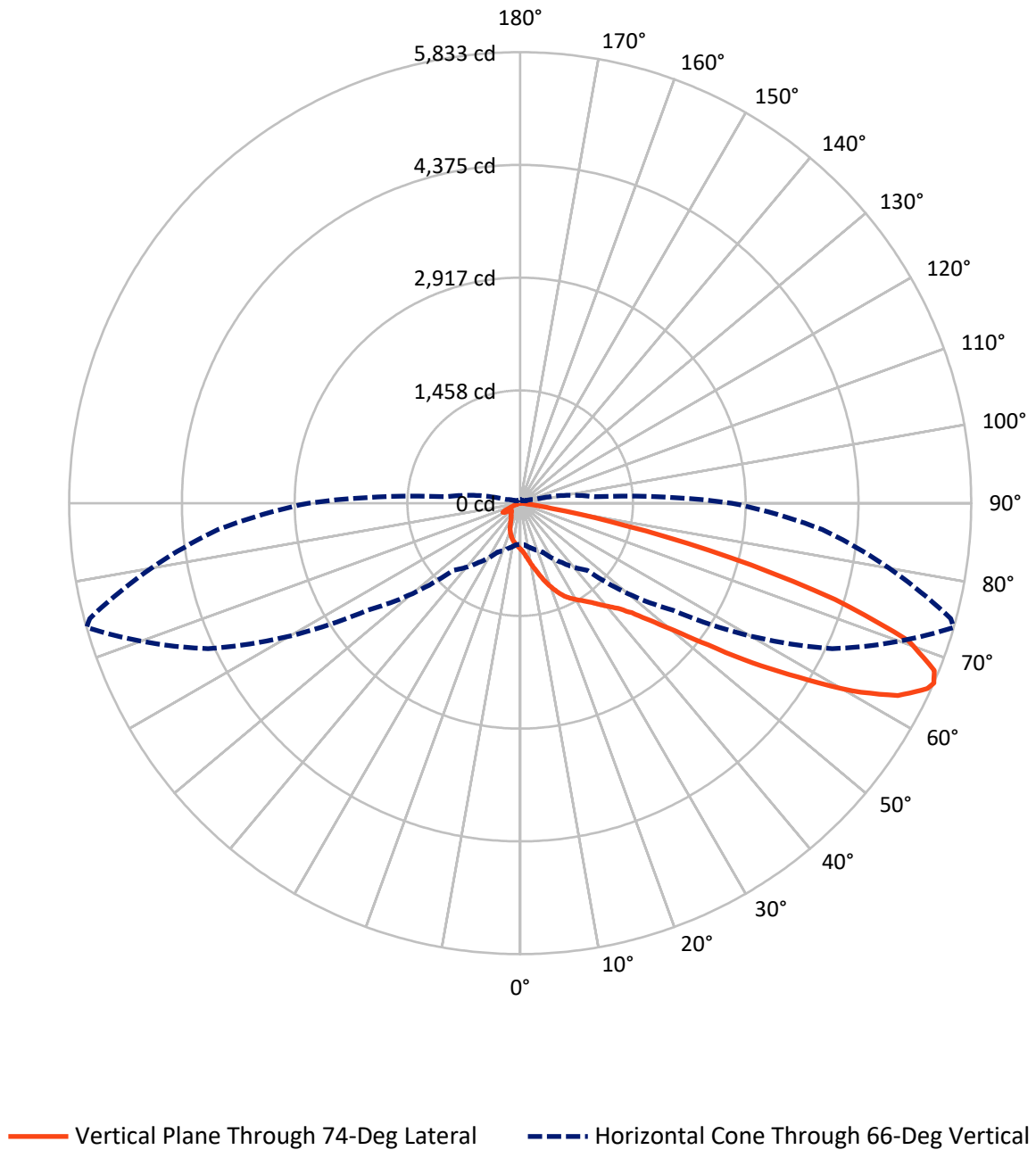
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Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	533.0	0.0	533.0
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4904.0	0.0	4904.0
	% Fixture	90.2	0.0	90.2
Total	Lumens	5437.0	0.0	5437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	1.1
10°-20°	185.7	3.4
20°-30°	354.4	6.5
30°-40°	621.2	11.4
40°-50°	1065.2	19.6
50°-60°	1385.4	25.5
60°-70°	1254.1	23.1
70°-80°	483.9	8.9
80°-90°	29.1	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°	5437.0	100.0
0°-180°	5437.0	100.0

Coefficient of Utilization



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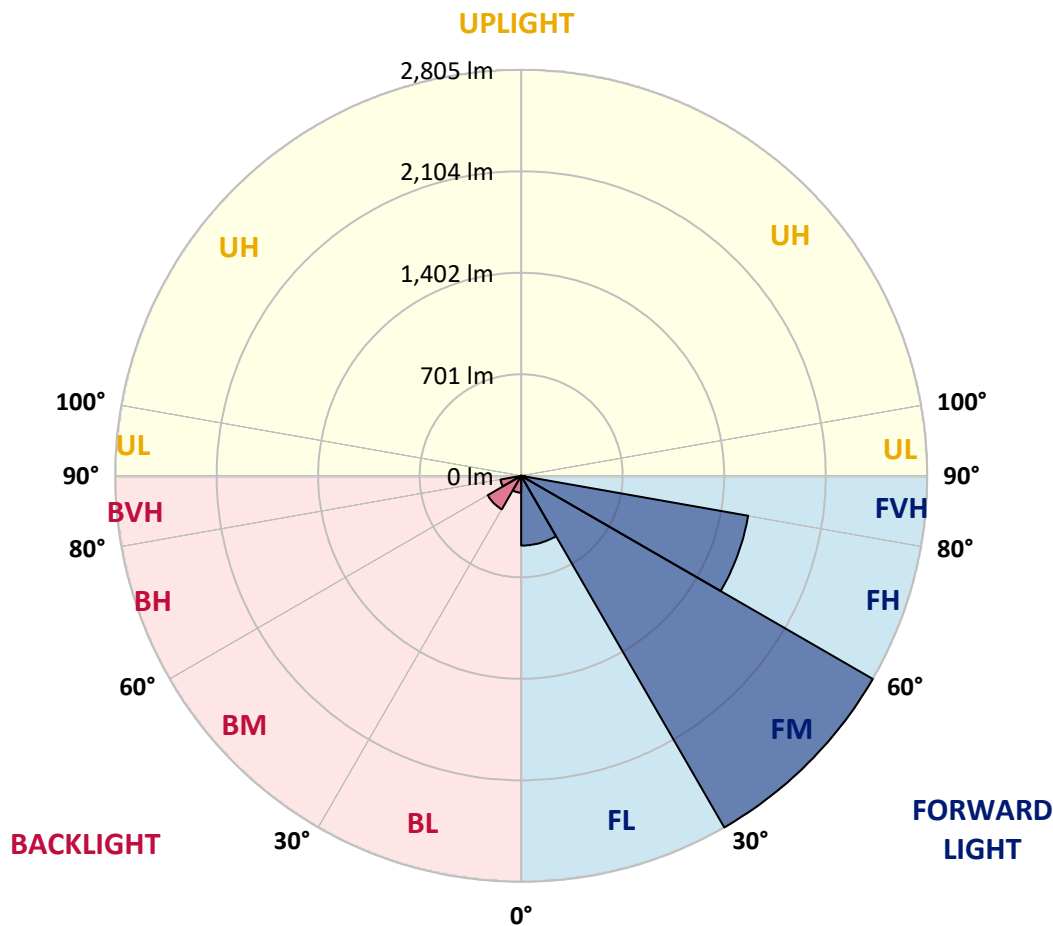
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	481.8	8.9			
FM	(30°-60°)	2804.7	51.6			
FH	(60°-80°)	1592.3	29.3			G1/1800
FVH	(80°-90°)	25.2	0.5			G1/100
BL	(0°-30°)	116.3	2.1	B1/500		
BM	(30°-60°)	267.1	4.9	B1/1000		
BH	(60°-80°)	145.7	2.7	B1/500		G1/500
BVH	(80°-90°)	3.9	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5
2.5°	712.6	706.7	696.0	695.0	686.2	675.5	656.9	637.4	623.8	621.8	605.2
5°	853.1	850.2	839.5	832.7	816.1	790.7	747.7	704.8	668.7	664.8	627.7
7.5°	890.2	892.2	894.1	901.0	895.1	883.4	851.2	790.7	734.1	725.3	660.8
10°	896.1	894.1	894.1	902.9	919.5	936.1	932.2	880.5	807.3	796.5	706.7
12.5°	959.5	962.5	955.6	951.7	948.8	957.6	986.9	964.4	884.4	875.6	762.4
15°	1041.5	1040.6	1030.8	1030.8	1022.0	1007.4	1025.9	1042.5	977.1	966.4	825.8
17.5°	1101.1	1105.0	1104.0	1109.9	1106.9	1087.4	1077.7	1111.8	1072.8	1059.1	898.1
20°	1148.9	1159.7	1163.6	1182.1	1190.9	1177.2	1151.8	1173.3	1164.5	1151.8	971.3
22.5°	1199.7	1208.5	1215.3	1247.5	1271.9	1269.0	1236.8	1231.9	1253.4	1241.7	1043.5
25°	1250.4	1254.3	1274.8	1313.9	1352.9	1362.7	1329.5	1291.4	1333.4	1322.7	1107.9
27.5°	1306.1	1308.0	1332.4	1380.3	1434.9	1455.4	1429.1	1358.8	1394.9	1394.9	1166.5
30°	1407.6	1427.1	1436.9	1479.8	1527.7	1556.0	1524.7	1430.1	1449.6	1458.4	1228.0
32.5°	1626.3	1629.2	1626.3	1644.8	1654.6	1671.2	1635.0	1510.1	1505.2	1515.0	1288.5
35°	1960.1	1948.4	1917.1	1889.8	1833.2	1802.0	1755.1	1612.6	1573.5	1587.2	1348.1
37.5°	2365.2	2348.6	2277.3	2193.4	2072.4	1947.4	1888.8	1737.5	1660.4	1678.0	1412.5
40°	2751.7	2741.0	2656.1	2552.6	2345.7	2131.9	2007.9	1843.0	1757.1	1763.9	1477.9
42.5°	3070.0	3068.0	2996.8	2888.4	2622.9	2331.0	2148.5	1946.4	1858.6	1869.3	1546.2
45°	3311.1	3292.5	3239.8	3161.7	2891.3	2538.0	2318.3	2103.6	2021.6	2034.3	1648.7
47.5°	3311.1	3314.0	3348.2	3340.4	3078.8	2732.2	2503.8	2301.7	2262.7	2274.4	1817.6
50°	3041.7	3069.0	3221.3	3349.2	3176.4	2883.5	2703.9	2549.7	2589.7	2607.3	2112.4
52.5°	2508.7	2554.6	2819.1	3111.0	3104.1	2959.7	2910.9	2865.0	3044.6	3075.8	2547.7
55°	1906.4	1936.7	2281.2	2664.9	2789.8	2897.2	3091.4	3265.2	3646.9	3640.0	2989.9
57.5°	1424.2	1452.5	1749.3	2174.8	2339.8	2626.8	3184.2	3723.0	4244.3	4270.6	3404.8
60°	1047.4	1068.9	1321.7	1671.2	1909.3	2212.9	3147.1	4174.0	4932.5	4902.2	3770.8
62.5°	775.1	786.8	969.3	1196.8	1513.0	1802.9	2913.8	4482.5	5482.0	5420.5	3974.9
65°	599.4	603.3	697.9	819.0	1100.1	1401.7	2566.3	4529.3	5785.6	5720.2	3971.0
66°	534.0	536.9	606.2	699.9	936.1	1227.0	2414.0	4454.1	5833.4	5764.1	3922.1
67.5°	448.1	446.1	487.1	548.6	702.8	946.9	2143.6	4234.5	5776.8	5741.7	3766.0
70°	331.9	332.9	353.4	368.0	411.0	524.2	1548.2	3673.2	5323.9	5321.9	3337.4
72.5°	246.0	248.9	264.5	267.5	256.7	284.1	892.2	2921.6	4258.9	4259.9	2495.0
75°	184.5	189.4	194.3	196.2	186.4	179.6	403.1	1966.0	2801.5	2781.0	1412.5
77.5°	140.6	142.5	146.4	143.5	141.5	124.0	167.9	958.6	1383.2	1260.2	457.8
80°	102.5	102.5	106.4	102.5	101.5	88.8	91.8	307.5	406.1	337.7	98.6
82.5°	64.4	63.4	66.4	65.4	63.4	56.6	53.7	85.9	93.7	83.9	47.8
85°	36.1	35.1	34.2	33.2	30.3	25.4	29.3	32.2	43.0	43.9	34.2
87.5°	12.7	12.7	11.7	10.7	8.8	8.8	10.7	10.7	15.6	15.6	17.6
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°	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5	593.5
2.5°	597.4	586.7	571.0	550.5	535.9	521.3	505.6	496.9	484.2	481.2	485.1
5°	608.1	588.6	549.6	506.6	469.5	436.3	405.1	386.6	368.0	361.2	364.1
7.5°	630.6	597.4	531.0	461.7	400.2	350.4	313.3	291.9	275.3	268.4	270.4
10°	663.8	613.0	513.5	411.0	331.9	279.2	247.9	234.3	224.5	220.6	221.6
12.5°	703.8	635.5	491.0	360.2	273.3	227.4	212.8	209.9	207.9	206.0	206.9
15°	748.7	655.0	464.6	310.4	227.4	202.1	197.2	196.2	195.2	195.2	195.2
17.5°	795.6	672.6	435.4	263.6	198.2	186.4	183.5	183.5	183.5	184.5	184.5
20°	839.5	686.2	401.2	221.6	181.6	171.8	169.8	169.8	170.8	171.8	171.8
22.5°	882.4	692.1	361.2	192.3	167.9	159.1	156.2	156.2	156.2	157.2	157.2
25°	919.5	692.1	321.2	173.8	156.2	147.4	143.5	142.5	143.5	143.5	143.5
27.5°	950.8	689.2	282.1	161.1	144.5	135.7	131.8	130.8	132.8	133.7	133.7
30°	984.0	685.3	250.9	149.4	134.7	125.9	122.0	122.0	124.9	128.9	128.9
32.5°	1016.2	688.2	226.5	139.6	124.9	118.1	114.2	115.2	121.0	126.9	126.9
35°	1050.3	694.0	211.8	132.8	118.1	111.3	108.4	111.3	117.1	123.0	123.0
37.5°	1084.5	700.9	203.0	126.9	112.3	105.4	103.5	107.4	114.2	120.1	121.0
40°	1120.6	706.7	193.3	121.0	108.4	100.5	99.6	103.5	112.3	118.1	119.1
42.5°	1165.5	718.4	181.6	116.2	104.4	94.7	95.7	98.6	107.4	116.2	117.1
45°	1253.4	755.5	169.8	111.3	99.6	91.8	89.8	91.8	101.5	111.3	113.2
47.5°	1418.3	839.5	157.2	106.4	94.7	89.8	82.0	83.9	92.7	103.5	104.4
50°	1734.6	1018.1	150.3	101.5	90.8	83.0	74.2	74.2	81.0	90.8	90.8
52.5°	2227.6	1338.3	154.2	97.6	85.9	76.1	67.4	66.4	70.3	77.1	77.1
55°	2759.6	1689.7	168.9	93.7	80.0	72.2	62.5	57.6	60.5	64.4	64.4
57.5°	3181.3	1866.4	208.9	91.8	73.2	69.3	56.6	49.8	52.7	56.6	56.6
60°	3366.7	1762.9	253.8	93.7	68.3	64.4	50.8	43.9	48.8	52.7	53.7
62.5°	3216.4	1451.5	272.3	88.8	61.5	57.6	49.8	41.0	46.9	49.8	50.8
65°	2891.3	1103.0	212.8	77.1	56.6	49.8	44.9	39.0	43.9	46.9	46.9
66°	2737.1	961.5	181.6	71.3	54.7	46.9	43.0	39.0	43.0	44.9	45.9
67.5°	2498.0	758.5	134.7	62.5	50.8	43.0	40.0	37.1	41.0	43.0	43.0
70°	1953.3	452.0	81.0	48.8	43.9	38.1	36.1	34.2	37.1	38.1	38.1
72.5°	1223.1	214.8	51.7	36.1	37.1	36.1	30.3	32.2	33.2	34.2	34.2
75°	592.5	84.9	35.1	26.4	30.3	34.2	24.4	28.3	29.3	31.2	30.3
77.5°	165.0	41.0	22.5	19.5	26.4	26.4	18.5	22.5	26.4	33.2	30.3
80°	47.8	26.4	14.6	14.6	18.5	18.5	12.7	15.6	17.6	19.5	20.5
82.5°	33.2	17.6	9.8	10.7	10.7	11.7	7.8	7.8	9.8	9.8	10.7
85°	26.4	7.8	5.9	6.8	4.9	5.9	3.9	3.9	4.9	3.9	3.9
87.5°	10.7	3.9	3.9	3.9	2.9	2.9	2.0	1.0	1.0	1.0	1.0
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)