

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: P1210708

Luminaire Tested: **ARCH3-50-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210708
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: ARCH3-50-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

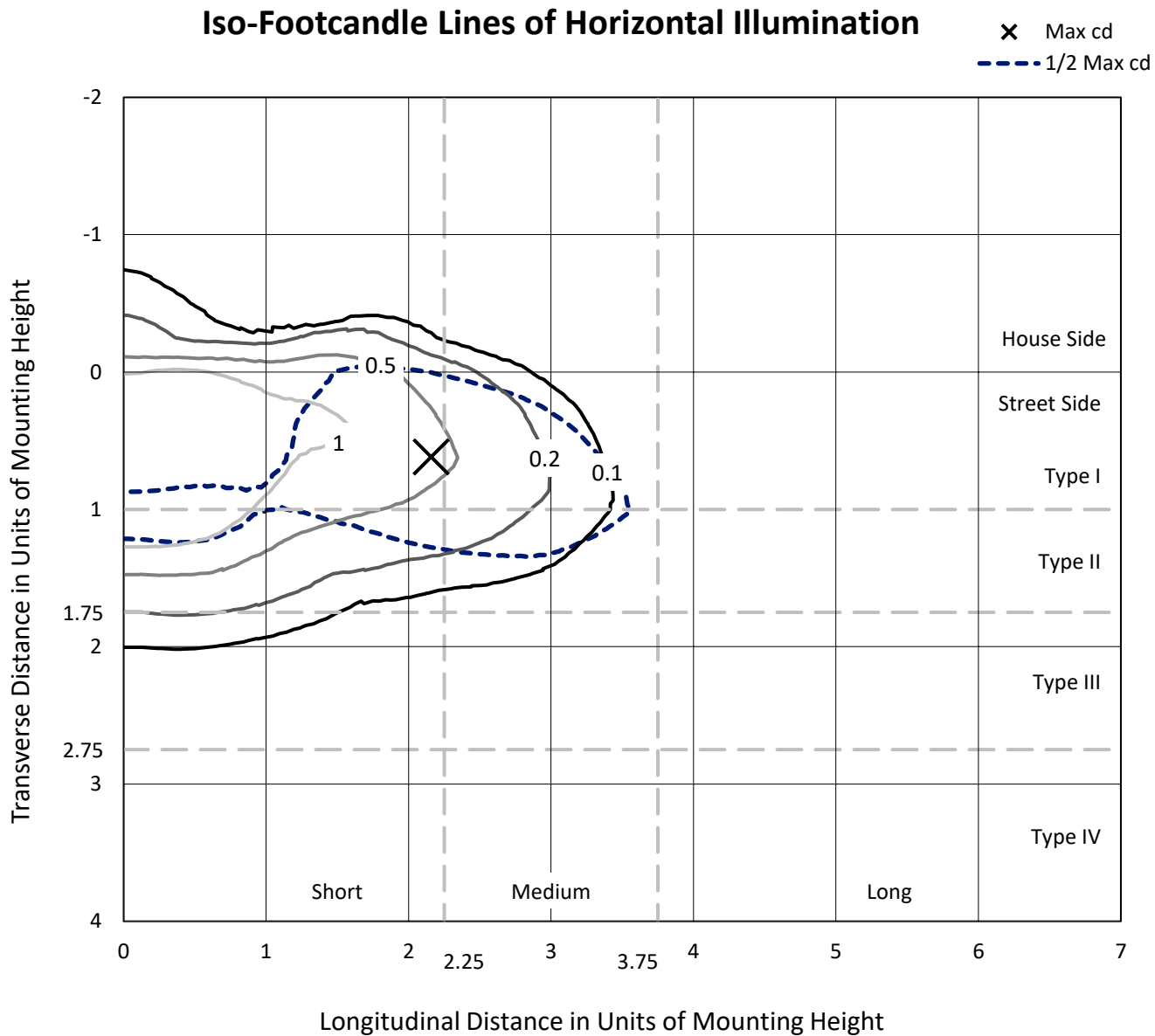
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5408 lumens
Efficiency: N/A
Efficacy: 100.9 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): 53.6
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

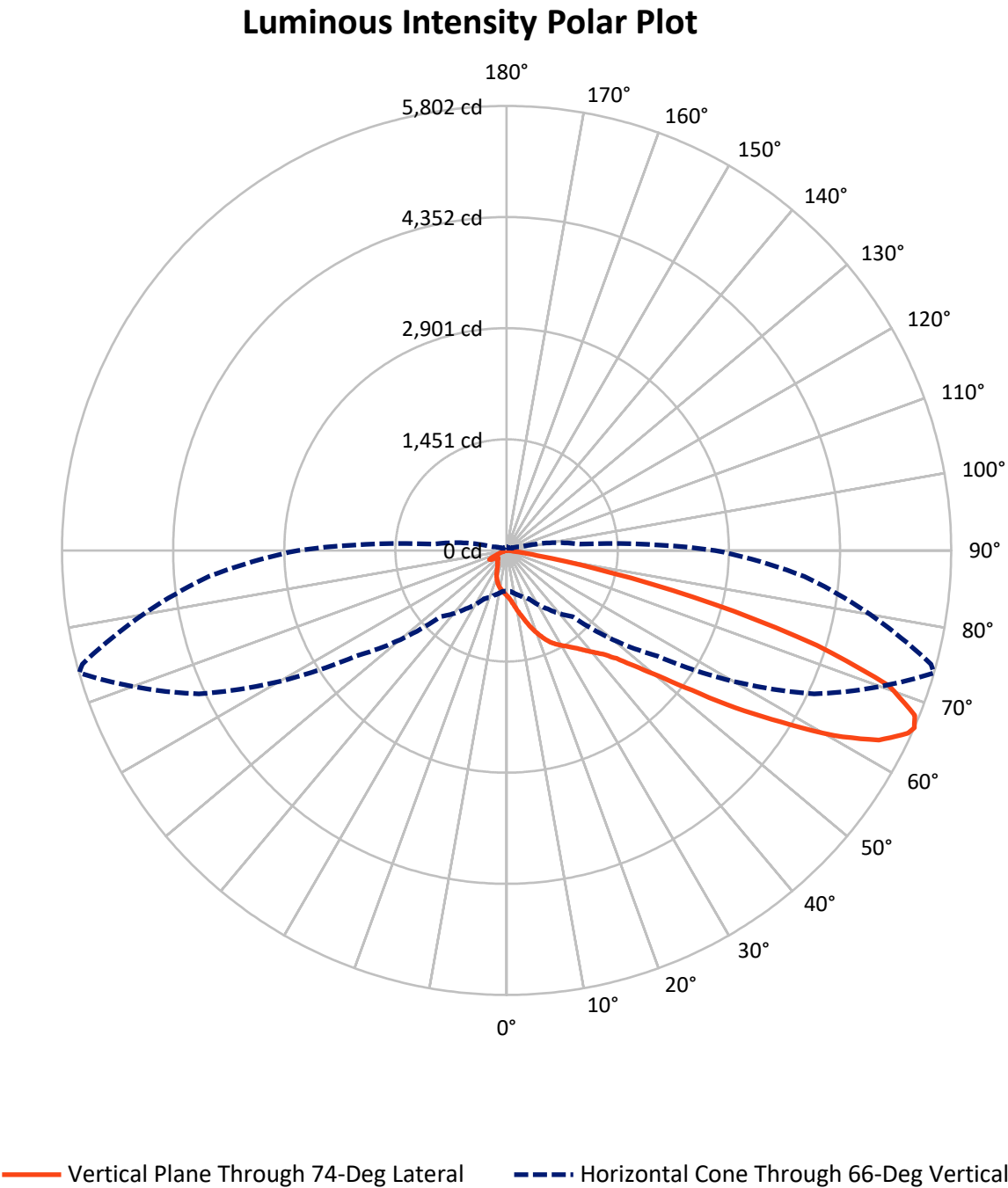


REPORT NUMBER: P1210708
CATALOG NUMBER: ARCH3-50-722-U-T2RE-HSS



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	530.2	0.0	530.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	4877.8	0.0	4877.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	5408.0	0.0	5408.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	1.1
10°-20°	184.7	3.4
20°-30°	352.5	6.5
30°-40°	617.9	11.4
40°-50°	1059.5	19.6
50°-60°	1378.0	25.5
60°-70°	1247.4	23.1
70°-80°	481.3	8.9
80°-90°	29.0	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°	5408.0	100.0
0°-180°	5408.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210708

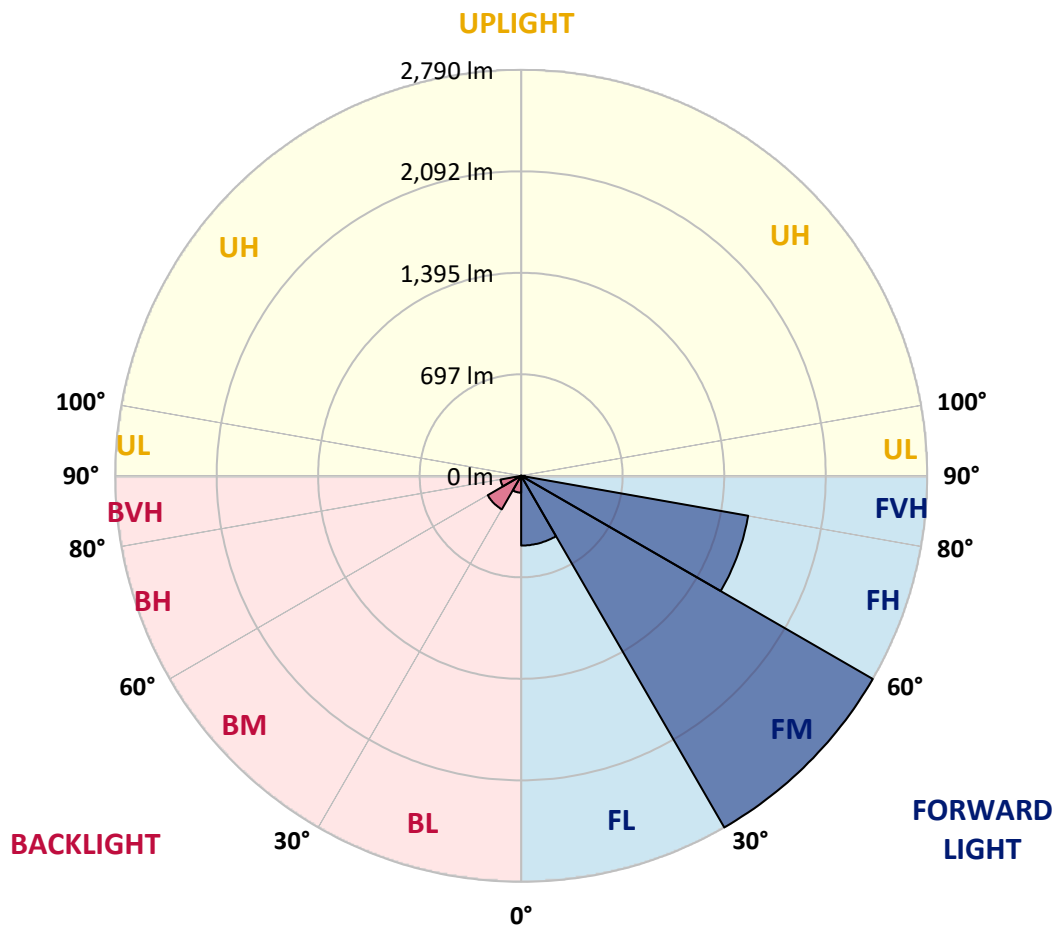
CATALOG NUMBER: ARCH3-50-722-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	479.2	8.9			
FM	(30°-60°)	2789.7	51.6			
FH	(60°-80°)	1583.8	29.3			G1/1800
FVH	(80°-90°)	25.1	0.5			G1/100
BL	(0°-30°)	115.6	2.1	B1/500		
BM	(30°-60°)	265.7	4.9	B1/1000		
BH	(60°-80°)	144.9	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



REPORT NUMBER: P1210708

CATALOG NUMBER: ARCH3-50-722-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3
2.5°	708.8	703.0	692.3	691.3	682.6	671.9	653.4	634.0	620.4	618.5	602.0
5°	848.6	845.7	835.0	828.2	811.7	786.5	743.7	701.0	665.1	661.2	624.3
7.5°	885.5	887.4	889.4	896.2	890.3	878.7	846.7	786.5	730.1	721.4	657.3
10°	891.3	889.4	889.4	898.1	914.6	931.1	927.2	875.8	803.0	792.3	703.0
12.5°	954.4	957.3	950.5	946.7	943.8	952.5	981.6	959.3	879.7	870.9	758.3
15°	1036.0	1035.0	1025.3	1025.3	1016.6	1002.0	1020.5	1037.0	971.9	961.2	821.4
17.5°	1095.2	1099.1	1098.1	1104.0	1101.0	1081.6	1071.9	1105.9	1067.1	1053.5	893.3
20°	1142.8	1153.5	1157.4	1175.8	1184.5	1171.0	1145.7	1167.1	1158.3	1145.7	966.1
22.5°	1193.3	1202.0	1208.8	1240.9	1265.1	1262.2	1230.2	1225.3	1246.7	1235.0	1037.9
25°	1243.8	1247.7	1268.0	1306.9	1345.7	1355.4	1322.4	1284.6	1326.3	1315.6	1102.0
27.5°	1299.1	1301.1	1325.3	1372.9	1427.3	1447.7	1421.5	1351.5	1387.5	1387.5	1160.3
30°	1400.1	1419.5	1429.2	1471.9	1519.5	1547.7	1516.6	1422.4	1441.8	1450.6	1221.4
32.5°	1617.6	1620.5	1617.6	1636.0	1645.7	1662.2	1626.3	1502.0	1497.2	1506.9	1281.6
35°	1949.6	1938.0	1906.9	1879.7	1823.4	1792.4	1745.7	1604.0	1565.2	1578.7	1340.9
37.5°	2352.6	2336.1	2265.2	2181.7	2061.3	1937.0	1878.8	1728.3	1651.6	1669.0	1404.9
40°	2737.1	2726.4	2641.9	2539.0	2333.2	2120.5	1997.2	1833.1	1747.7	1754.5	1470.0
42.5°	3053.6	3051.7	2980.8	2873.0	2608.9	2318.6	2137.0	1936.0	1848.7	1859.3	1538.0
45°	3293.4	3275.0	3222.5	3144.9	2875.9	2524.4	2306.0	2092.4	2010.8	2023.4	1639.9
47.5°	3293.4	3296.3	3330.3	3322.5	3062.3	2717.7	2490.5	2289.5	2250.6	2262.3	1807.9
50°	3025.4	3052.6	3204.1	3331.3	3159.4	2868.1	2689.5	2536.1	2575.9	2593.4	2101.1
52.5°	2495.3	2540.9	2804.1	3094.4	3087.6	2943.9	2895.3	2849.7	3028.4	3059.4	2534.1
55°	1896.2	1926.3	2269.1	2650.7	2774.9	2881.7	3075.0	3247.8	3627.4	3620.6	2974.0
57.5°	1416.6	1444.8	1739.9	2163.2	2327.3	2612.8	3167.2	3703.2	4221.6	4247.9	3386.6
60°	1041.8	1063.2	1314.6	1662.2	1899.2	2201.1	3130.3	4151.7	4906.1	4876.0	3750.7
62.5°	770.9	782.6	964.1	1190.4	1505.0	1793.3	2898.2	4458.5	5452.8	5391.6	3953.7
65°	596.2	600.0	694.2	814.6	1094.2	1394.3	2552.6	4505.1	5754.7	5689.7	3949.8
66°	531.1	534.0	603.0	696.2	931.1	1220.5	2401.1	4430.4	5802.3	5733.4	3901.2
67.5°	445.7	443.7	484.5	545.7	699.1	941.8	2132.2	4211.9	5746.0	5711.1	3745.9
70°	330.1	331.1	351.5	366.0	408.8	521.4	1539.9	3653.6	5295.5	5293.6	3319.6
72.5°	244.7	247.6	263.1	266.0	255.4	282.5	887.4	2906.0	4236.2	4237.2	2481.7
75°	183.5	188.4	193.2	195.2	185.4	178.7	401.0	1955.5	2786.6	2766.2	1404.9
77.5°	139.8	141.8	145.6	142.7	140.8	123.3	167.0	953.5	1375.8	1253.5	455.4
80°	101.9	101.9	105.8	101.9	101.0	88.4	91.3	305.8	403.9	335.9	98.1
82.5°	64.1	63.1	66.0	65.1	63.1	56.3	53.4	85.4	93.2	83.5	47.6
85°	35.9	35.0	34.0	33.0	30.1	25.2	29.1	32.0	42.7	43.7	34.0
87.5°	12.6	12.6	11.7	10.7	8.7	8.7	10.7	10.7	15.5	15.5	17.5
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: P1210708

CATALOG NUMBER: ARCH3-50-722-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3	590.3
2.5°	594.2	583.5	568.0	547.6	533.0	518.5	502.9	494.2	481.6	478.7	482.6
5°	604.9	585.5	546.6	503.9	467.0	434.0	402.9	384.5	366.0	359.2	362.2
7.5°	627.2	594.2	528.2	459.3	398.1	348.6	311.7	290.3	273.8	267.0	268.9
10°	660.2	609.7	510.7	408.8	330.1	277.7	246.6	233.0	223.3	219.4	220.4
12.5°	700.0	632.1	488.4	358.3	271.9	226.2	211.7	208.8	206.8	204.9	205.8
15°	744.7	651.5	462.2	308.8	226.2	201.0	196.1	195.2	194.2	194.2	194.2
17.5°	791.3	669.0	433.0	262.2	197.1	185.4	182.5	182.5	182.5	183.5	183.5
20°	835.0	682.6	399.1	220.4	180.6	170.9	168.9	168.9	169.9	170.9	170.9
22.5°	877.7	688.4	359.2	191.3	167.0	158.3	155.3	155.3	155.3	156.3	156.3
25°	914.6	688.4	319.4	172.8	155.3	146.6	142.7	141.8	142.7	142.7	142.7
27.5°	945.7	685.5	280.6	160.2	143.7	135.0	131.1	130.1	132.0	133.0	133.0
30°	978.7	681.6	249.5	148.6	134.0	125.3	121.4	121.4	124.3	128.2	128.2
32.5°	1010.7	684.5	225.3	138.8	124.3	117.5	113.6	114.6	120.4	126.2	126.2
35°	1044.7	690.3	210.7	132.0	117.5	110.7	107.8	110.7	116.5	122.3	122.3
37.5°	1078.7	697.1	202.0	126.2	111.7	104.9	102.9	106.8	113.6	119.4	120.4
40°	1114.6	703.0	192.2	120.4	107.8	100.0	99.0	102.9	111.7	117.5	118.5
42.5°	1159.3	714.6	180.6	115.5	103.9	94.2	95.2	98.1	106.8	115.5	116.5
45°	1246.7	751.5	168.9	110.7	99.0	91.3	89.3	91.3	101.0	110.7	112.6
47.5°	1410.8	835.0	156.3	105.8	94.2	89.3	81.6	83.5	92.2	102.9	103.9
50°	1725.4	1012.7	149.5	101.0	90.3	82.5	73.8	73.8	80.6	90.3	90.3
52.5°	2215.7	1331.2	153.4	97.1	85.4	75.7	67.0	66.0	69.9	76.7	76.7
55°	2744.8	1680.7	168.0	93.2	79.6	71.8	62.1	57.3	60.2	64.1	64.1
57.5°	3164.3	1856.4	207.8	91.3	72.8	68.9	56.3	49.5	52.4	56.3	56.3
60°	3348.8	1753.5	252.4	93.2	68.0	64.1	50.5	43.7	48.5	52.4	53.4
62.5°	3199.2	1443.8	270.9	88.4	61.2	57.3	49.5	40.8	46.6	49.5	50.5
65°	2875.9	1097.2	211.7	76.7	56.3	49.5	44.7	38.8	43.7	46.6	46.6
66°	2722.5	956.4	180.6	70.9	54.4	46.6	42.7	38.8	42.7	44.7	45.6
67.5°	2484.6	754.4	134.0	62.1	50.5	42.7	39.8	36.9	40.8	42.7	42.7
70°	1942.8	449.5	80.6	48.5	43.7	37.9	35.9	34.0	36.9	37.9	37.9
72.5°	1216.6	213.6	51.5	35.9	36.9	35.9	30.1	32.0	33.0	34.0	34.0
75°	589.4	84.5	35.0	26.2	30.1	34.0	24.3	28.2	29.1	31.1	30.1
77.5°	164.1	40.8	22.3	19.4	26.2	26.2	18.4	22.3	26.2	33.0	30.1
80°	47.6	26.2	14.6	14.6	18.4	18.4	12.6	15.5	17.5	19.4	20.4
82.5°	33.0	17.5	9.7	10.7	10.7	11.7	7.8	7.8	9.7	9.7	10.7
85°	26.2	7.8	5.8	6.8	4.9	5.8	3.9	3.9	4.9	3.9	3.9
87.5°	10.7	3.9	3.9	3.9	2.9	2.9	1.9	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)