

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: P1210072

Luminaire Tested: **ARCH2-100-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210072
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: ARCH2-100-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 760mA 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: 8925 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 103.3
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



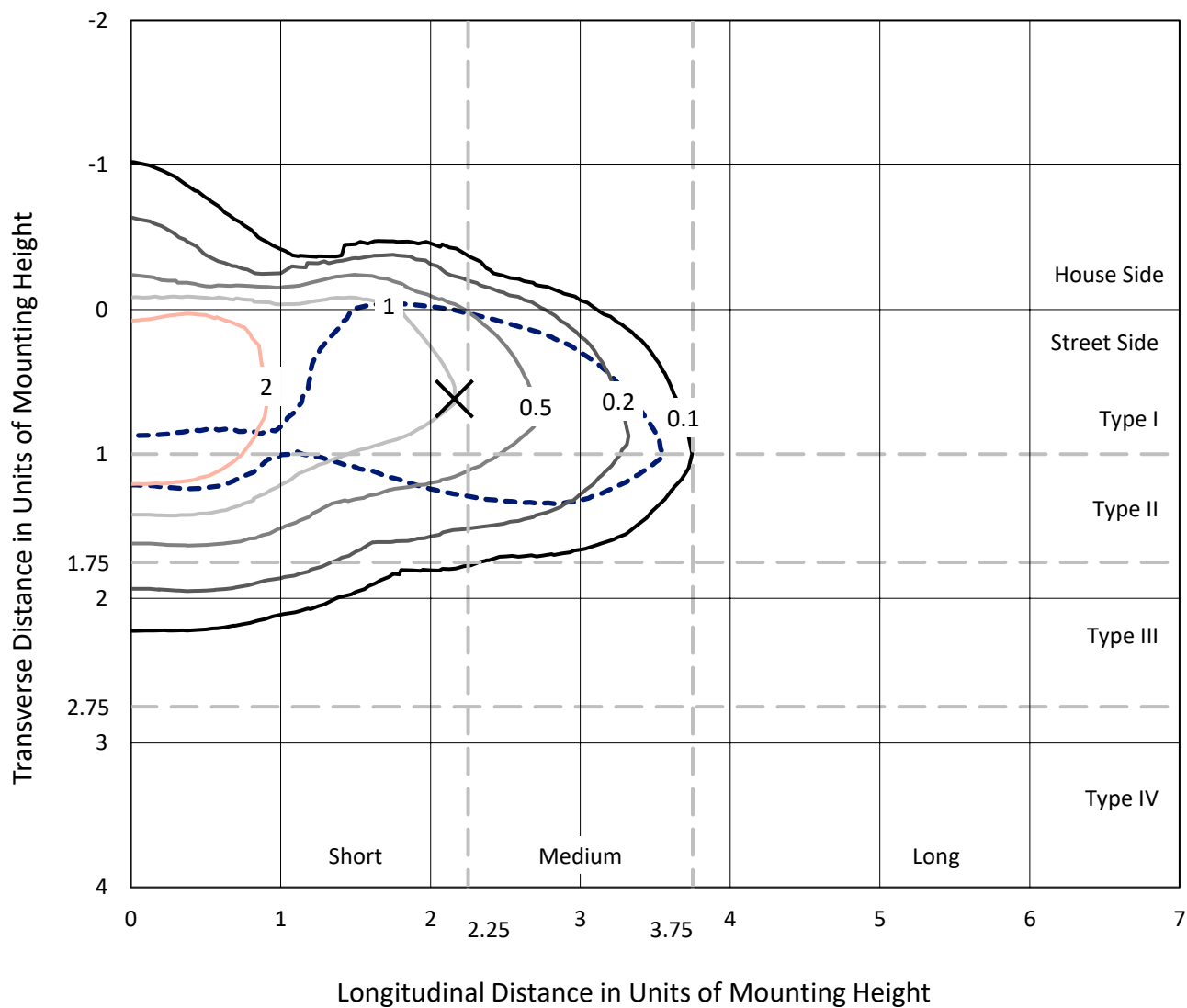
REPORT NUMBER: P1210072

CATALOG NUMBER: ARCH2-100-727-U-T2RE-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

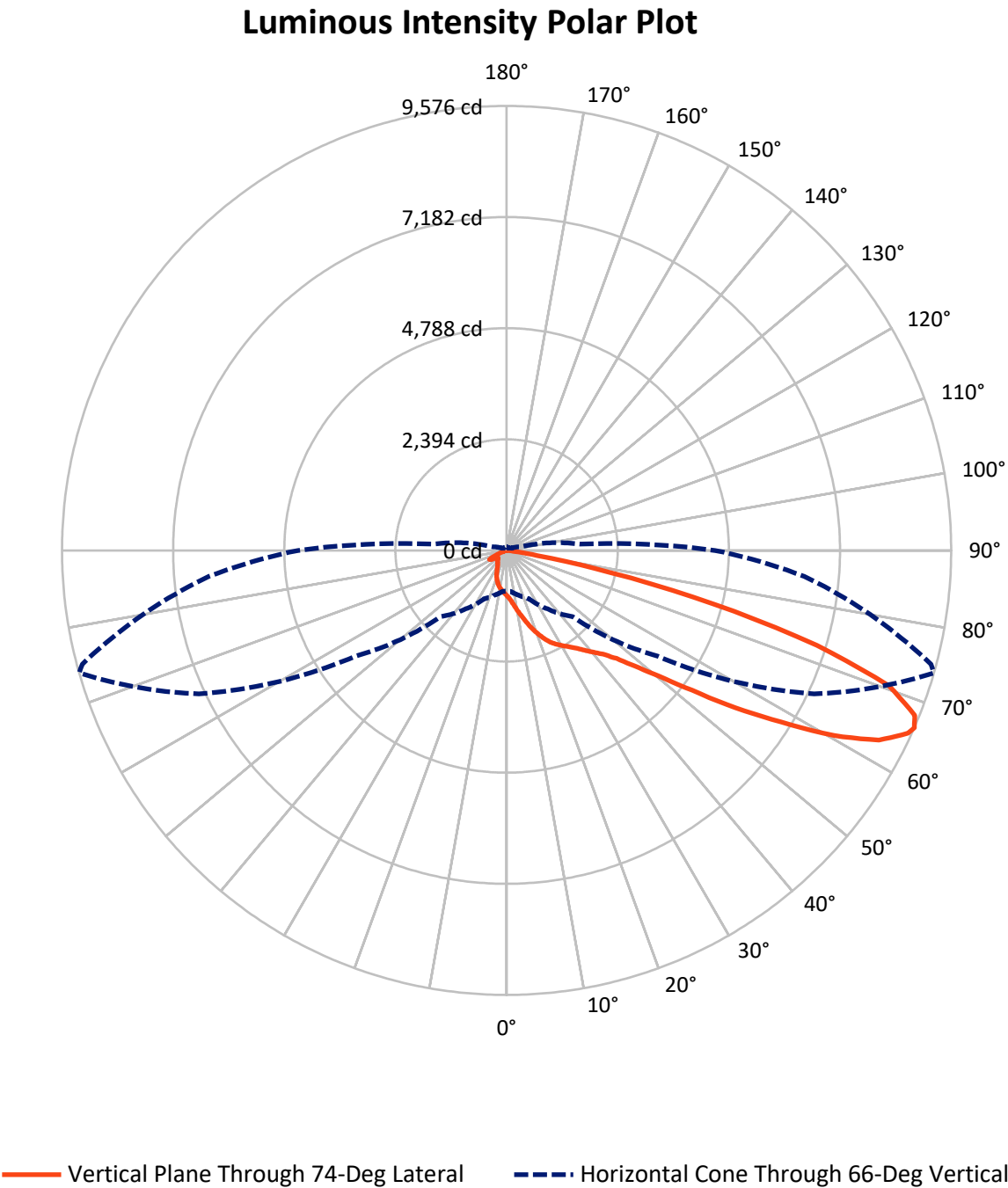
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc

Type II - Short - N/A

REPORT NUMBER: P1210072
CATALOG NUMBER: ARCH2-100-727-U-T2RE-HSS



REPORT NUMBER: P1210072

CATALOG NUMBER: ARCH2-100-727-U-T2RE-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	874.9	0.0	874.9
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8050.1	0.0	8050.1
	% Fixture	90.2	0.0	90.2
Total	Lumens	8925.0	0.0	8925.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	1.1
10°-20°	304.8	3.4
20°-30°	581.8	6.5
30°-40°	1019.7	11.4
40°-50°	1748.6	19.6
50°-60°	2274.1	25.5
60°-70°	2058.7	23.1
70°-80°	794.3	8.9
80°-90°	47.8	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°	8925.0	100.0
0°-180°	8925.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210072

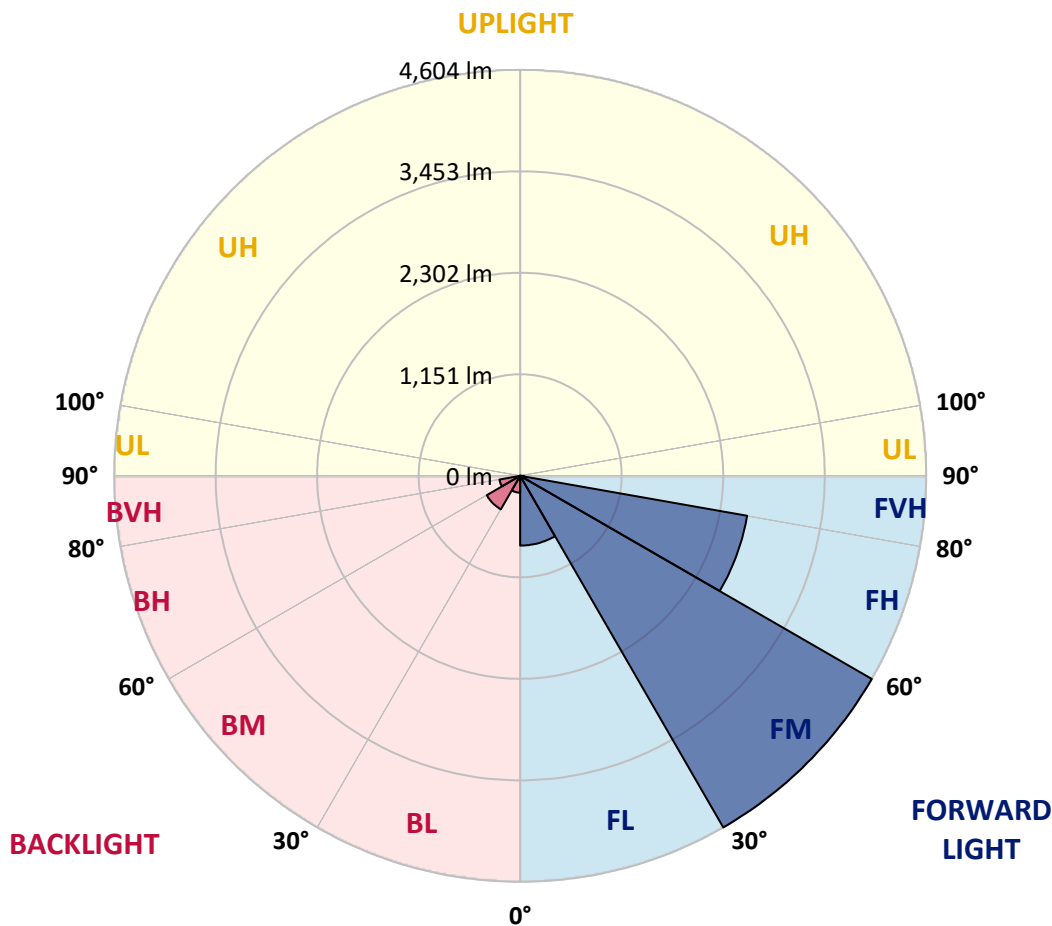
CATALOG NUMBER: ARCH2-100-727-U-T2RE-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	790.9	8.9			
FM	(30°-60°)	4604.0	51.6			
FH	(60°-80°)	2613.8	29.3			G2/5000
FVH	(80°-90°)	41.4	0.5			G1/100
BL	(0°-30°)	190.8	2.1	B1/500		
BM	(30°-60°)	438.5	4.9	B1/1000		
BH	(60°-80°)	239.2	2.7	B1/500		G1/500
BVH	(80°-90°)	6.4	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-G2

Type II Short



REPORT NUMBER: P1210072

CATALOG NUMBER: ARCH2-100-727-U-T2RE-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2
2.5°	1169.7	1160.1	1142.5	1140.9	1126.5	1108.8	1078.4	1046.3	1023.9	1020.7	993.5
5°	1400.5	1395.7	1378.0	1366.8	1339.6	1297.9	1227.4	1156.9	1097.6	1091.2	1030.3
7.5°	1461.4	1464.6	1467.8	1479.0	1469.4	1450.1	1397.3	1297.9	1205.0	1190.6	1084.8
10°	1471.0	1467.8	1467.8	1482.2	1509.4	1536.7	1530.3	1445.3	1325.2	1307.5	1160.1
12.5°	1575.1	1579.9	1568.7	1562.3	1557.5	1571.9	1620.0	1583.1	1451.7	1437.3	1251.5
15°	1709.7	1708.1	1692.1	1692.1	1677.7	1653.6	1684.1	1711.3	1604.0	1586.3	1355.6
17.5°	1807.5	1813.9	1812.3	1821.9	1817.1	1785.0	1769.0	1825.1	1761.0	1738.6	1474.2
20°	1886.0	1903.6	1910.0	1940.5	1954.9	1932.5	1890.8	1926.0	1911.6	1890.8	1594.4
22.5°	1969.3	1983.7	1995.0	2047.8	2087.9	2083.1	2030.2	2022.2	2057.4	2038.2	1712.9
25°	2052.6	2059.0	2092.7	2156.8	2220.9	2236.9	2182.4	2119.9	2188.8	2171.2	1818.7
27.5°	2144.0	2147.2	2187.2	2265.8	2355.5	2389.1	2345.9	2230.5	2289.8	2289.8	1914.8
30°	2310.6	2342.7	2358.7	2429.2	2507.7	2554.2	2502.9	2347.5	2379.5	2393.9	2015.8
32.5°	2669.5	2674.4	2669.5	2700.0	2716.0	2743.3	2684.0	2478.9	2470.9	2486.9	2115.1
35°	3217.6	3198.3	3147.1	3102.2	3009.3	2958.0	2881.1	2647.1	2583.0	2605.5	2212.9
37.5°	3882.5	3855.3	3738.3	3600.5	3401.8	3196.7	3100.6	2852.2	2725.6	2754.5	2318.6
40°	4517.1	4499.5	4360.0	4190.2	3850.5	3499.6	3296.1	3025.3	2884.3	2895.5	2426.0
42.5°	5039.5	5036.2	4919.3	4741.4	4305.6	3826.5	3526.8	3195.1	3050.9	3068.5	2538.2
45°	5435.2	5404.8	5318.3	5190.1	4746.2	4166.2	3805.6	3453.1	3318.5	3339.3	2706.4
47.5°	5435.2	5440.0	5496.1	5483.3	5053.9	4485.0	4110.1	3778.4	3714.3	3733.5	2983.6
50°	4993.0	5037.9	5287.8	5497.7	5214.1	4733.4	4438.6	4185.4	4251.1	4279.9	3467.5
52.5°	4118.1	4193.4	4627.6	5106.8	5095.5	4858.4	4778.3	4703.0	4997.8	5049.1	4182.2
55°	3129.4	3179.1	3744.7	4374.5	4579.6	4755.8	5074.7	5359.9	5986.5	5975.2	4908.1
57.5°	2337.9	2384.3	2871.4	3570.1	3840.9	4312.0	5226.9	6111.4	6967.1	7010.4	5589.1
60°	1719.3	1754.6	2169.6	2743.3	3134.2	3632.6	5166.0	6851.7	8096.8	8047.1	6190.0
62.5°	1272.3	1291.5	1591.2	1964.5	2483.7	2959.6	4783.1	7358.1	8998.9	8898.0	6524.9
65°	983.9	990.3	1145.7	1344.4	1805.9	2301.0	4212.6	7435.0	9497.2	9389.9	6518.4
66°	876.5	881.3	995.1	1148.9	1536.7	2014.2	3962.7	7311.6	9575.8	9462.0	6438.3
67.5°	735.5	732.3	799.6	900.5	1153.7	1554.3	3518.8	6951.1	9482.8	9425.1	6181.9
70°	544.8	546.4	580.1	604.1	674.6	860.5	2541.4	6029.7	8739.3	8736.1	5478.5
72.5°	403.8	408.6	434.2	439.0	421.4	466.3	1464.6	4795.9	6991.1	6992.7	4095.7
75°	302.8	310.9	318.9	322.1	306.1	294.8	661.8	3227.2	4598.8	4565.2	2318.6
77.5°	230.7	233.9	240.4	235.5	232.3	203.5	275.6	1573.5	2270.6	2068.7	751.5
80°	168.2	168.2	174.7	168.2	166.6	145.8	150.6	504.7	666.6	554.4	161.8
82.5°	105.8	104.2	109.0	107.4	104.2	92.9	88.1	141.0	153.8	137.8	78.5
85°	59.3	57.7	56.1	54.5	49.7	41.7	48.1	52.9	70.5	72.1	56.1
87.5°	20.8	20.8	19.2	17.6	14.4	14.4	17.6	17.6	25.6	25.6	28.8
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: P1210072

CATALOG NUMBER: ARCH2-100-727-U-T2RE-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2	974.2
2.5°	980.7	963.0	937.4	903.7	879.7	855.7	830.0	815.6	794.8	790.0	796.4
5°	998.3	966.2	902.1	831.6	770.7	716.3	665.0	634.5	604.1	592.9	597.7
7.5°	1035.1	980.7	871.7	757.9	657.0	575.3	514.4	479.1	451.9	440.7	443.9
10°	1089.6	1006.3	842.8	674.6	544.8	458.3	407.0	384.6	368.5	362.1	363.7
12.5°	1155.3	1043.1	806.0	591.3	448.7	373.4	349.3	344.5	341.3	338.1	339.7
15°	1229.0	1075.2	762.7	509.6	373.4	331.7	323.7	322.1	320.5	320.5	320.5
17.5°	1305.9	1104.0	714.7	432.6	325.3	306.1	301.2	301.2	301.2	302.8	302.8
20°	1378.0	1126.5	658.6	363.7	298.0	282.0	278.8	278.8	280.4	282.0	282.0
22.5°	1448.5	1136.1	592.9	315.7	275.6	261.2	256.4	256.4	256.4	258.0	258.0
25°	1509.4	1136.1	527.2	285.2	256.4	242.0	235.5	233.9	235.5	235.5	235.5
27.5°	1560.7	1131.3	463.1	264.4	237.2	222.7	216.3	214.7	217.9	219.5	219.5
30°	1615.2	1124.9	411.8	245.2	221.1	206.7	200.3	200.3	205.1	211.5	211.5
32.5°	1668.1	1129.7	371.7	229.1	205.1	193.9	187.5	189.1	198.7	208.3	208.3
35°	1724.2	1139.3	347.7	217.9	193.9	182.7	177.9	182.7	192.3	201.9	201.9
37.5°	1780.2	1150.5	333.3	208.3	184.3	173.1	169.9	176.3	187.5	197.1	198.7
40°	1839.5	1160.1	317.3	198.7	177.9	165.0	163.4	169.9	184.3	193.9	195.5
42.5°	1913.2	1179.3	298.0	190.7	171.5	155.4	157.0	161.8	176.3	190.7	192.3
45°	2057.4	1240.2	278.8	182.7	163.4	150.6	147.4	150.6	166.6	182.7	185.9
47.5°	2328.2	1378.0	258.0	174.7	155.4	147.4	134.6	137.8	152.2	169.9	171.5
50°	2847.4	1671.3	246.8	166.6	149.0	136.2	121.8	121.8	133.0	149.0	149.0
52.5°	3656.6	2196.8	253.2	160.2	141.0	125.0	110.6	109.0	115.4	126.6	126.6
55°	4529.9	2773.7	277.2	153.8	131.4	118.6	102.6	94.5	99.3	105.8	105.8
57.5°	5222.1	3063.7	342.9	150.6	120.2	113.8	92.9	81.7	86.5	92.9	92.9
60°	5526.6	2893.9	416.6	153.8	112.2	105.8	83.3	72.1	80.1	86.5	88.1
62.5°	5279.8	2382.7	447.1	145.8	100.9	94.5	81.7	67.3	76.9	81.7	83.3
65°	4746.2	1810.7	349.3	126.6	92.9	81.7	73.7	64.1	72.1	76.9	76.9
66°	4493.0	1578.3	298.0	117.0	89.7	76.9	70.5	64.1	70.5	73.7	75.3
67.5°	4100.5	1245.0	221.1	102.6	83.3	70.5	65.7	60.9	67.3	70.5	70.5
70°	3206.3	741.9	133.0	80.1	72.1	62.5	59.3	56.1	60.9	62.5	62.5
72.5°	2007.8	352.5	84.9	59.3	60.9	59.3	49.7	52.9	54.5	56.1	56.1
75°	972.6	139.4	57.7	43.3	49.7	56.1	40.1	46.5	48.1	51.3	49.7
77.5°	270.8	67.3	36.9	32.0	43.3	43.3	30.4	36.9	43.3	54.5	49.7
80°	78.5	43.3	24.0	24.0	30.4	30.4	20.8	25.6	28.8	32.0	33.6
82.5°	54.5	28.8	16.0	17.6	17.6	19.2	12.8	12.8	16.0	16.0	17.6
85°	43.3	12.8	9.6	11.2	8.0	9.6	6.4	6.4	8.0	6.4	6.4
87.5°	17.6	6.4	6.4	6.4	4.8	4.8	3.2	1.6	1.6	1.6	1.6
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)