

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: P1210910

Luminaire Tested: **ARCH4-110-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-110-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 920mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13116 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

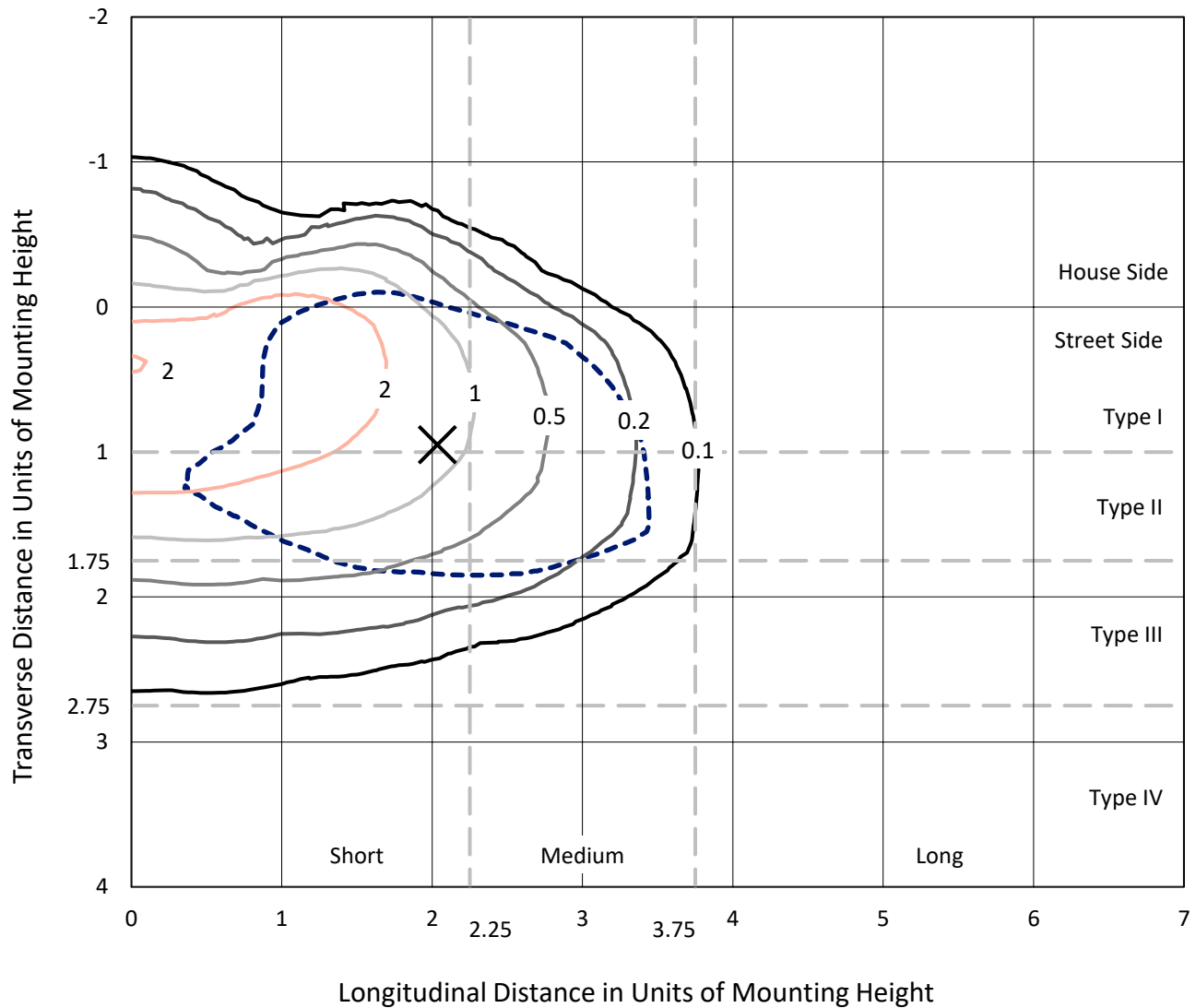
Input Watts (W): 112.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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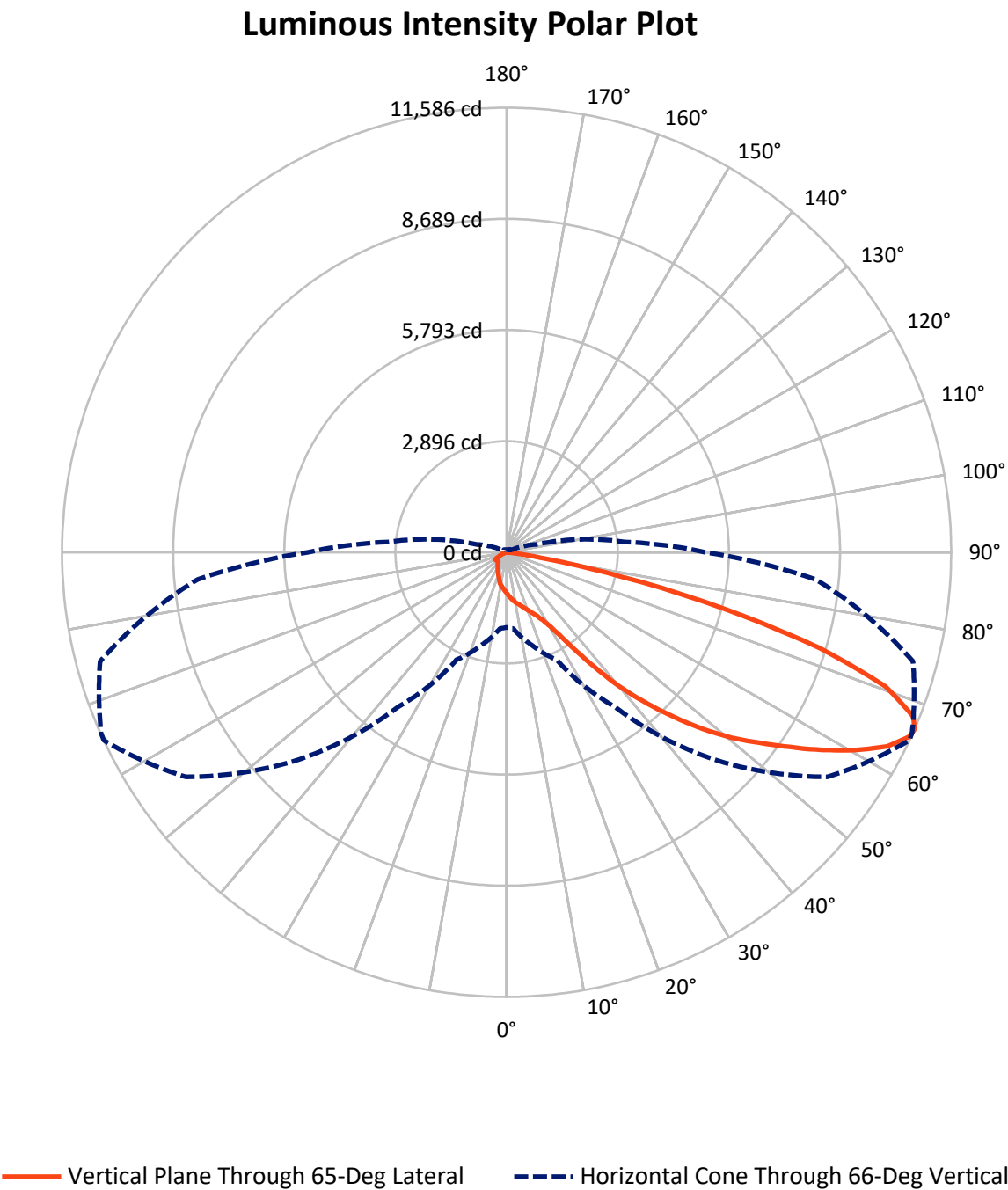
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1548.0	0.0	1548.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	11568.0	0.0	11568.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	13116.0	0.0	13116.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	0.8
10°-20°	299.9	2.3
20°-30°	548.9	4.2
30°-40°	1115.3	8.5
40°-50°	2355.3	18.0
50°-60°	3620.8	27.6
60°-70°	3644.6	27.8
70°-80°	1361.8	10.4
80°-90°	68.0	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°	13116.0	100.0
0°-180°	13116.0	100.0

Coefficient of Utilization



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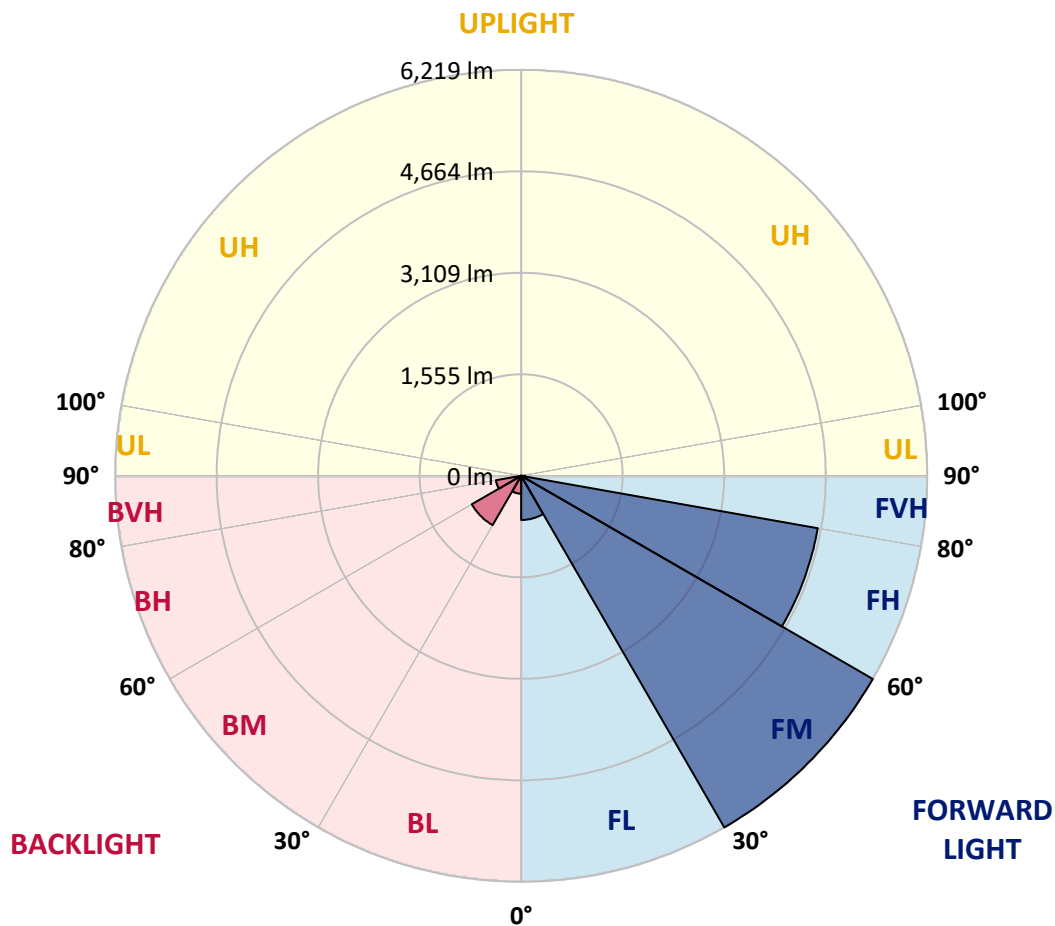
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	676.1	5.2			
FM	(30°-60°)	6218.7	47.4			
FH	(60°-80°)	4613.2	35.2			G2/5000
FVH	(80°-90°)	60.0	0.5			G1/100
BL	(0°-30°)	274.0	2.1	B1/500		
BM	(30°-60°)	872.7	6.7	B1/1000		
BH	(60°-80°)	393.2	3.0	B1/500		G1/500
BVH	(80°-90°)	8.0	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	1218.5	1220.9	1216.1	1206.6	1197.1	1185.2	1166.2	1135.2	1130.5	1109.0	1085.2
5°	1301.8	1306.6	1299.4	1297.1	1292.3	1275.6	1249.5	1204.2	1199.5	1156.6	1101.9
7.5°	1330.4	1337.5	1332.8	1332.8	1332.8	1325.6	1313.7	1273.3	1266.1	1211.4	1128.1
10°	1351.8	1356.6	1354.2	1363.7	1370.8	1366.1	1358.9	1335.1	1328.0	1273.3	1163.8
12.5°	1385.1	1387.5	1389.9	1394.6	1406.5	1411.3	1408.9	1387.5	1382.7	1344.7	1209.0
15°	1416.1	1416.1	1418.4	1439.9	1456.5	1466.0	1468.4	1451.8	1447.0	1416.1	1266.1
17.5°	1444.6	1447.0	1454.1	1477.9	1506.5	1525.5	1537.4	1530.3	1523.2	1499.4	1332.8
20°	1487.5	1492.2	1499.4	1532.7	1561.2	1592.2	1616.0	1613.6	1611.2	1594.5	1411.3
22.5°	1561.2	1566.0	1577.9	1608.8	1637.4	1675.5	1715.9	1713.5	1706.4	1694.5	1504.1
25°	1673.1	1673.1	1680.2	1706.4	1742.1	1787.3	1825.4	1832.5	1825.4	1818.3	1620.7
27.5°	1813.5	1815.9	1815.9	1844.4	1877.8	1934.9	1982.5	1989.6	1989.6	1982.5	1777.8
30°	2008.7	2001.5	1996.8	2020.6	2056.3	2139.5	2222.8	2237.1	2230.0	2241.9	1999.1
32.5°	2344.2	2332.3	2291.9	2296.6	2318.0	2432.3	2572.7	2622.7	2620.3	2641.7	2356.1
35°	2808.3	2784.5	2725.0	2675.0	2672.7	2796.4	3010.6	3198.6	3196.2	3270.0	2898.7
37.5°	3331.9	3362.8	3251.0	3165.3	3139.1	3236.7	3512.8	3919.7	3941.2	4069.7	3610.3
40°	4031.6	4050.6	3907.8	3786.5	3662.7	3698.4	4062.5	4695.6	4733.7	4876.5	4321.9
42.5°	4640.8	4659.9	4576.6	4429.0	4272.0	4205.3	4617.0	5400.0	5431.0	5628.5	5055.0
45°	5055.0	5069.2	5097.8	5112.1	4933.6	4795.5	5295.3	6123.5	6161.6	6390.1	5771.3
47.5°	5378.6	5390.5	5447.6	5590.4	5554.7	5445.3	5985.5	6875.6	6885.1	7139.8	6468.6
50°	5528.6	5557.1	5697.5	5916.5	6073.6	6104.5	6735.2	7587.2	7613.4	7856.1	7127.9
52.5°	5362.0	5371.5	5726.1	6137.8	6454.3	6768.5	7487.2	8246.4	8322.6	8503.5	7720.5
55°	4800.3	4869.3	5407.2	6130.7	6754.2	7399.2	8291.6	8958.0	9027.0	9141.3	8241.7
57.5°	4148.2	4224.4	4878.8	5823.7	6882.7	7982.3	9036.6	9714.8	9762.4	9793.4	8720.0
60°	3584.2	3655.6	4329.1	5235.8	6754.2	8394.0	9729.1	10466.9	10507.4	10424.1	8960.4
62.5°	2891.6	2963.0	3641.3	4457.6	6249.7	8477.3	10243.2	11135.7	11152.3	10926.2	8812.9
65°	2180.0	2227.6	2794.0	3493.7	5366.7	8034.6	10359.8	11552.1	11535.5	11071.4	8370.2
66°	1953.9	1994.4	2494.2	3089.1	4907.4	7630.0	10202.7	11585.5	11568.8	10964.3	8079.8
67.5°	1685.0	1696.9	2108.6	2527.5	4105.4	6770.9	9724.4	11433.1	11447.4	10669.2	7549.1
70°	1316.1	1313.7	1551.7	1758.8	2803.5	4817.0	8110.8	10474.0	10543.1	9555.4	6437.7
72.5°	842.5	813.9	952.0	1075.7	1632.6	2796.4	5914.1	8536.8	8653.4	7506.3	4795.5
75°	502.2	473.6	506.9	537.9	783.0	1344.7	3477.1	5809.4	5921.2	4812.2	2853.5
77.5°	376.0	364.1	366.5	340.3	347.5	504.5	1587.4	3070.1	3151.0	1970.6	1082.9
80°	288.0	257.0	240.4	252.3	228.5	199.9	590.2	1056.7	1106.7	466.5	226.1
82.5°	192.8	166.6	154.7	169.0	145.2	111.9	142.8	204.7	199.9	126.1	88.1
85°	100.0	85.7	85.7	85.7	73.8	54.7	61.9	83.3	83.3	66.6	52.4
87.5°	28.6	26.2	30.9	28.6	21.4	21.4	23.8	28.6	28.6	26.2	23.8
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°	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6	1068.6
2.5°	1066.2	1056.7	1030.5	1011.5	992.4	975.8	956.7	952.0	942.4	944.8	940.1
5°	1073.3	1047.2	1001.9	959.1	925.8	897.2	861.5	847.3	828.2	821.1	816.3
7.5°	1082.9	1044.8	978.1	918.6	861.5	804.4	747.3	714.0	692.6	683.0	675.9
10°	1104.3	1054.3	966.2	873.4	775.9	694.9	637.8	614.0	599.7	597.4	595.0
12.5°	1132.8	1068.6	954.3	816.3	687.8	611.6	575.9	568.8	566.4	566.4	564.0
15°	1175.7	1092.4	935.3	749.7	618.8	566.4	549.8	537.9	533.1	533.1	533.1
17.5°	1218.5	1120.9	906.8	680.7	571.2	537.9	521.2	514.1	509.3	511.7	509.3
20°	1273.3	1154.3	868.7	621.2	540.2	514.1	497.4	490.3	487.9	487.9	487.9
22.5°	1335.1	1192.3	821.1	575.9	514.1	490.3	473.6	466.5	461.7	464.1	464.1
25°	1418.4	1239.9	771.1	530.7	487.9	466.5	447.4	437.9	437.9	440.3	442.7
27.5°	1525.5	1297.1	721.1	502.2	464.1	442.7	421.2	411.7	414.1	418.9	418.9
30°	1682.6	1375.6	671.1	471.2	437.9	414.1	395.1	385.5	390.3	399.8	399.8
32.5°	1906.3	1504.1	628.3	435.5	399.8	373.6	354.6	347.5	359.4	378.4	378.4
35°	2306.1	1739.7	602.1	399.8	359.4	328.4	304.6	297.5	314.1	337.9	337.9
37.5°	2841.6	2118.1	611.6	368.9	326.0	290.4	264.2	254.7	266.6	288.0	295.1
40°	3439.0	2575.1	694.9	342.7	295.1	259.4	233.2	223.7	230.9	240.4	242.8
42.5°	4036.3	3060.6	852.0	323.7	271.3	233.2	209.4	202.3	207.1	209.4	211.8
45°	4631.3	3541.3	1049.5	311.8	249.9	211.8	188.0	188.0	190.4	190.4	190.4
47.5°	5195.4	4010.2	1256.6	309.4	230.9	190.4	171.4	173.7	173.7	176.1	176.1
50°	5728.5	4429.0	1466.0	316.5	214.2	171.4	157.1	157.1	157.1	159.5	157.1
52.5°	6173.5	4795.5	1685.0	328.4	197.5	157.1	142.8	142.8	142.8	145.2	142.8
55°	6594.8	5128.7	1908.7	345.1	183.3	145.2	130.9	126.1	126.1	128.5	126.1
57.5°	6937.5	5350.1	2120.5	347.5	171.4	133.3	121.4	114.2	114.2	114.2	114.2
60°	6951.8	5221.5	2182.4	304.6	157.1	121.4	109.5	100.0	102.3	102.3	102.3
62.5°	6497.2	4545.7	1754.0	228.5	140.4	109.5	100.0	90.4	90.4	90.4	90.4
65°	5604.7	3536.6	1028.1	180.9	121.4	97.6	88.1	80.9	80.9	80.9	78.5
66°	5185.9	3101.0	787.8	164.2	114.2	95.2	85.7	78.5	76.2	73.8	73.8
67.5°	4502.8	2451.3	492.6	145.2	104.7	88.1	78.5	71.4	69.0	66.6	66.6
70°	3391.4	1556.5	240.4	111.9	90.4	76.2	69.0	61.9	59.5	57.1	54.7
72.5°	2379.9	911.5	126.1	85.7	73.8	66.6	59.5	52.4	50.0	47.6	47.6
75°	1344.7	440.3	83.3	61.9	59.5	54.7	50.0	42.8	40.5	40.5	40.5
77.5°	509.3	152.3	57.1	45.2	47.6	42.8	35.7	35.7	33.3	35.7	33.3
80°	133.3	66.6	35.7	33.3	35.7	30.9	26.2	28.6	28.6	28.6	28.6
82.5°	71.4	38.1	21.4	23.8	21.4	21.4	16.7	19.0	21.4	19.0	21.4
85°	50.0	19.0	11.9	11.9	9.5	9.5	7.1	9.5	11.9	9.5	9.5
87.5°	26.2	7.1	7.1	7.1	7.1	4.8	2.4	0.0	2.4	2.4	2.4
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)