

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: P1210410

Luminaire Tested: **ARCH3-110-750-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210410
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: ARCH3-110-750-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE III ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12294 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 111.9
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



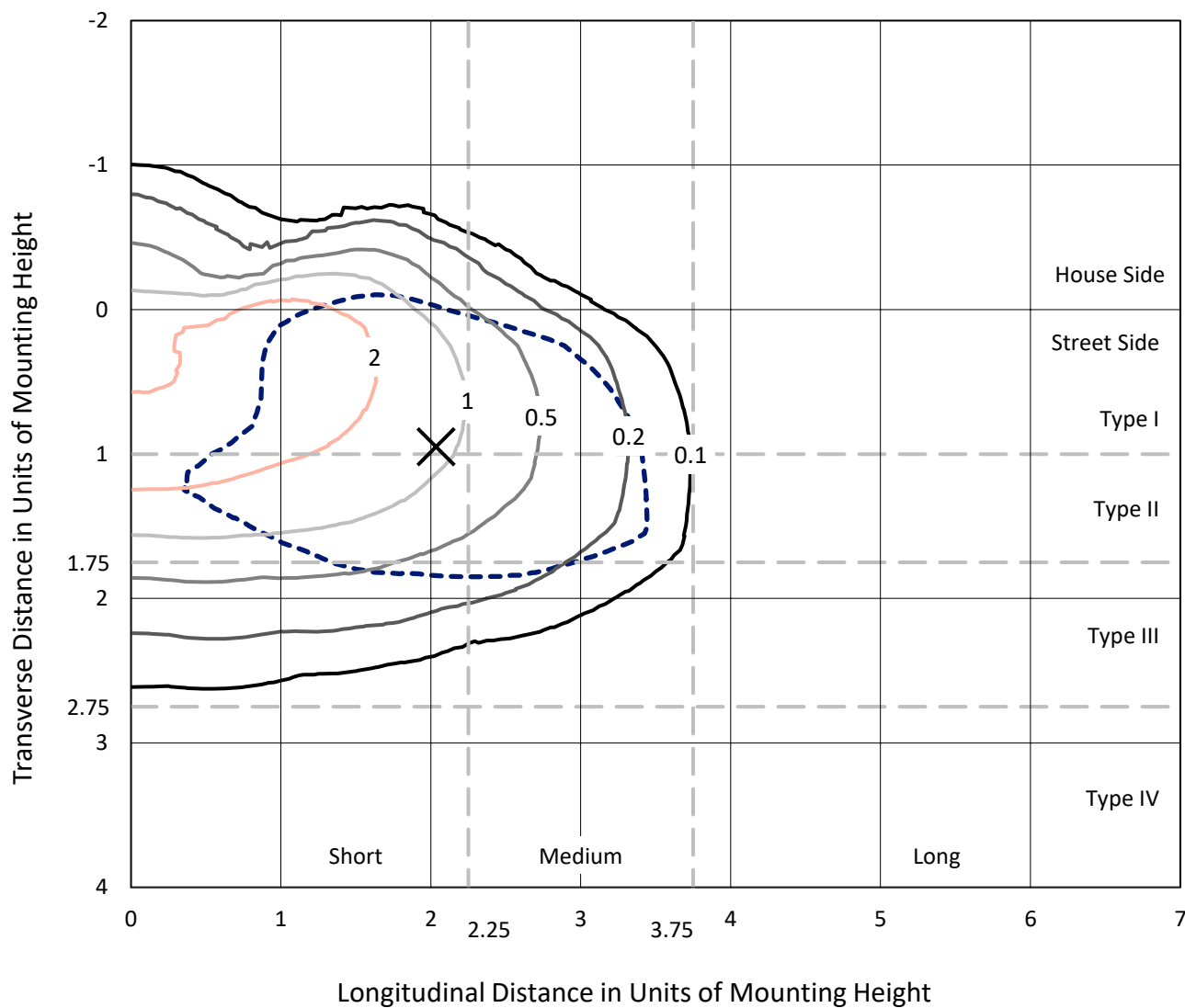
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

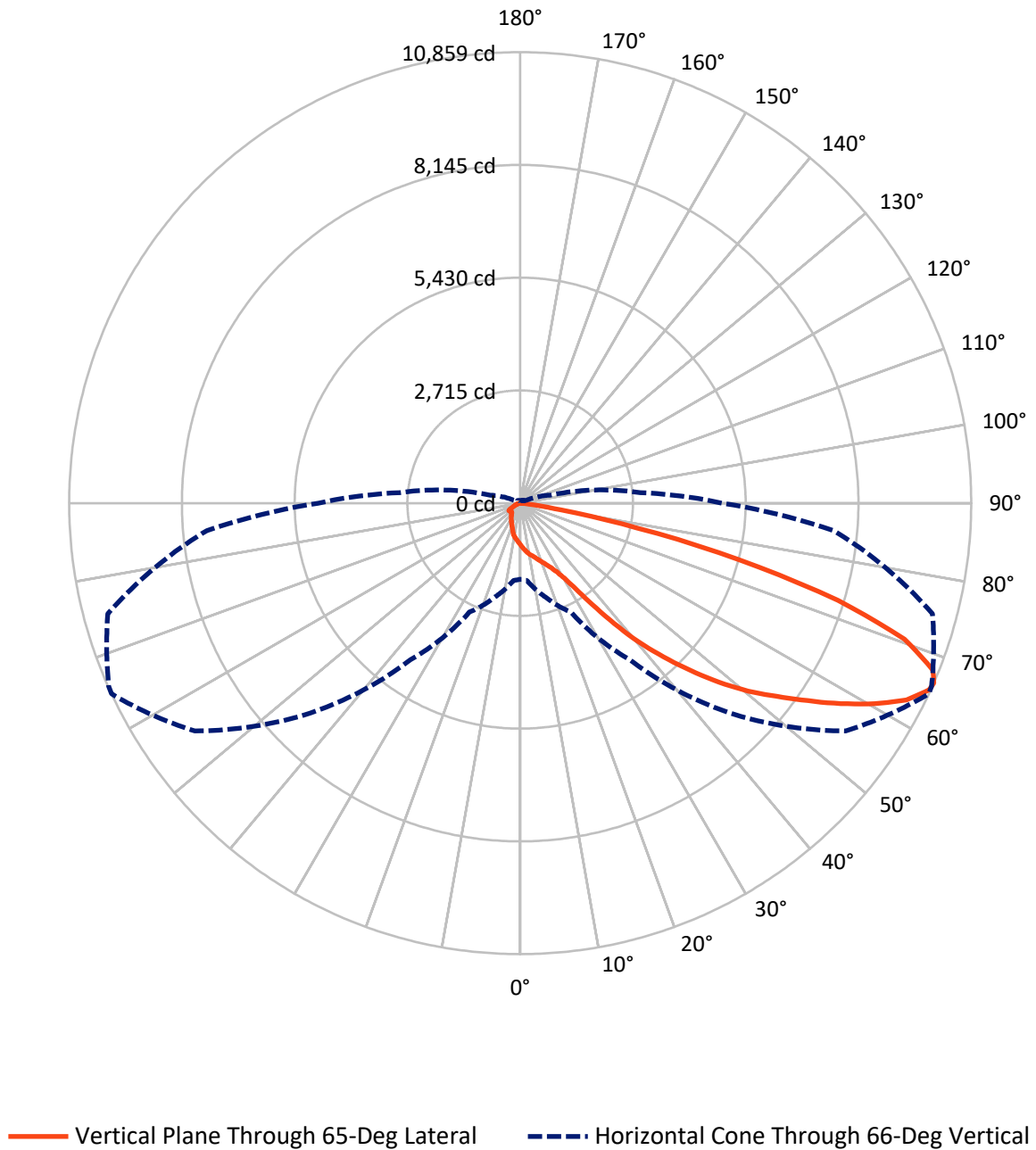
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1450.9	0.0	1450.9
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	10843.1	0.0	10843.1
	% Fixture	88.2	0.0	88.2
Total	Lumens	12294.0	0.0	12294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	0.8
10°-20°	281.1	2.3
20°-30°	514.5	4.2
30°-40°	1045.4	8.5
40°-50°	2207.7	18.0
50°-60°	3393.9	27.6
60°-70°	3416.2	27.8
70°-80°	1276.5	10.4
80°-90°	63.8	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°	12294.0	100.0
0°-180°	12294.0	100.0

Coefficient of Utilization



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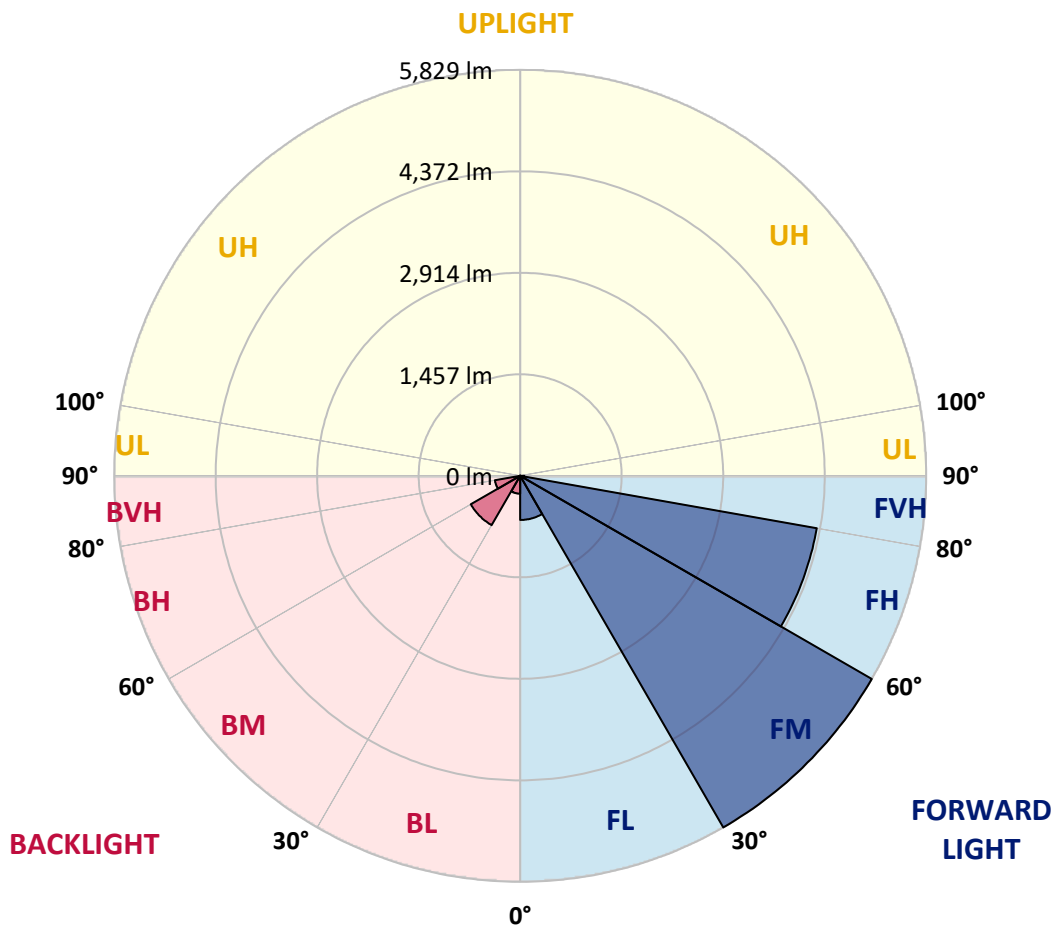
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	633.7	5.2			
FM	(30°-60°)	5829.0	47.4			
FH	(60°-80°)	4324.1	35.2			G2/5000
FVH	(80°-90°)	56.3	0.5			G1/100
BL	(0°-30°)	256.8	2.1	B1/500		
BM	(30°-60°)	818.1	6.7	B1/1000		
BH	(60°-80°)	368.6	3.0	B1/500		G1/500
BVH	(80°-90°)	7.5	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°	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6
2.5°	1142.2	1144.4	1139.9	1131.0	1122.1	1110.9	1093.1	1064.1	1059.6	1039.5	1017.2
5°	1220.2	1224.7	1218.0	1215.8	1211.3	1195.7	1171.2	1128.8	1124.3	1084.2	1032.8
7.5°	1247.0	1253.7	1249.2	1249.2	1249.2	1242.5	1231.4	1193.5	1186.8	1135.5	1057.4
10°	1267.1	1271.5	1269.3	1278.2	1284.9	1280.5	1273.8	1251.5	1244.8	1193.5	1090.8
12.5°	1298.3	1300.5	1302.8	1307.2	1318.4	1322.8	1320.6	1300.5	1296.1	1260.4	1133.2
15°	1327.3	1327.3	1329.5	1349.6	1365.2	1374.2	1376.4	1360.8	1356.3	1327.3	1186.8
17.5°	1354.1	1356.3	1363.0	1385.3	1412.1	1429.9	1441.1	1434.4	1427.7	1405.4	1249.2
20°	1394.2	1398.7	1405.4	1436.6	1463.4	1492.4	1514.7	1512.5	1510.2	1494.6	1322.8
22.5°	1463.4	1467.8	1479.0	1508.0	1534.8	1570.5	1608.4	1606.2	1599.5	1588.3	1409.8
25°	1568.2	1568.2	1574.9	1599.5	1632.9	1675.3	1711.0	1717.7	1711.0	1704.3	1519.2
27.5°	1699.8	1702.1	1702.1	1728.8	1760.1	1813.6	1858.2	1864.9	1864.9	1858.2	1666.4
30°	1882.8	1876.1	1871.6	1893.9	1927.4	2005.5	2083.5	2096.9	2090.2	2101.4	1873.8
32.5°	2197.3	2186.2	2148.2	2152.7	2172.8	2279.8	2411.5	2458.3	2456.1	2476.2	2208.5
35°	2632.3	2610.0	2554.2	2507.4	2505.2	2621.2	2821.9	2998.2	2995.9	3065.1	2717.1
37.5°	3123.1	3152.1	3047.2	2966.9	2942.4	3033.8	3292.6	3674.1	3694.2	3814.6	3384.1
40°	3778.9	3796.8	3662.9	3549.2	3433.2	3466.6	3807.9	4401.3	4437.0	4570.8	4051.1
42.5°	4350.0	4367.8	4289.8	4151.5	4004.2	3941.8	4327.7	5061.6	5090.6	5275.8	4738.2
45°	4738.2	4751.5	4778.3	4791.7	4624.4	4495.0	4963.5	5739.8	5775.5	5989.6	5409.6
47.5°	5041.5	5052.7	5106.2	5240.1	5206.6	5104.0	5610.4	6444.7	6453.6	6692.3	6063.2
50°	5182.1	5208.8	5340.5	5545.7	5692.9	5721.9	6313.1	7111.7	7136.2	7363.8	6681.2
52.5°	5025.9	5034.8	5367.2	5753.2	6049.8	6344.3	7018.0	7729.6	7801.0	7970.5	7236.6
55°	4499.5	4564.2	5068.3	5746.5	6330.9	6935.5	7772.0	8396.6	8461.3	8568.4	7725.2
57.5°	3888.2	3959.6	4573.1	5458.7	6451.4	7482.0	8470.2	9106.0	9150.6	9179.6	8173.5
60°	3359.5	3426.5	4057.8	4907.7	6330.9	7867.9	9119.4	9810.9	9848.8	9770.8	8398.8
62.5°	2710.4	2777.3	3413.1	4178.2	5858.0	7946.0	9601.2	10437.8	10453.4	10241.5	8260.5
65°	2043.4	2088.0	2618.9	3274.8	5030.4	7531.1	9710.5	10828.2	10812.5	10377.5	7845.6
66°	1831.5	1869.4	2337.8	2895.5	4599.8	7151.8	9563.3	10859.4	10843.8	10277.2	7573.5
67.5°	1579.4	1590.5	1976.5	2369.1	3848.1	6346.5	9114.9	10716.6	10730.0	10000.5	7076.0
70°	1233.6	1231.4	1454.5	1648.5	2627.8	4515.1	7602.5	9817.6	9882.3	8956.5	6034.2
72.5°	789.7	762.9	892.3	1008.3	1530.3	2621.2	5543.5	8001.8	8111.1	7035.8	4495.0
75°	470.7	443.9	475.2	504.2	733.9	1260.4	3259.2	5445.3	5550.2	4510.6	2674.7
77.5°	352.5	341.3	343.5	319.0	325.7	472.9	1487.9	2877.7	2953.5	1847.1	1015.0
80°	269.9	240.9	225.3	236.5	214.2	187.4	553.2	990.5	1037.3	437.2	211.9
82.5°	180.7	156.2	145.0	158.4	136.1	104.8	133.8	191.8	187.4	118.2	82.5
85°	93.7	80.3	80.3	80.3	69.2	51.3	58.0	78.1	78.1	62.5	49.1
87.5°	26.8	24.5	29.0	26.8	20.1	20.1	22.3	26.8	26.8	24.5	22.3
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°	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6	1001.6
2.5°	999.4	990.5	965.9	948.1	930.2	914.6	896.8	892.3	883.4	885.6	881.2
5°	1006.1	981.5	939.2	899.0	867.8	841.0	807.5	794.2	776.3	769.6	765.2
7.5°	1015.0	979.3	916.8	861.1	807.5	754.0	700.5	669.2	649.2	640.2	633.5
10°	1035.1	988.2	905.7	818.7	727.2	651.4	597.8	575.5	562.2	559.9	557.7
12.5°	1061.8	1001.6	894.5	765.2	644.7	573.3	539.8	533.2	530.9	530.9	528.7
15°	1102.0	1023.9	876.7	702.7	580.0	530.9	515.3	504.2	499.7	499.7	499.7
17.5°	1142.2	1050.7	849.9	638.0	535.4	504.2	488.5	481.8	477.4	479.6	477.4
20°	1193.5	1081.9	814.2	582.2	506.4	481.8	466.2	459.5	457.3	457.3	457.3
22.5°	1251.5	1117.6	769.6	539.8	481.8	459.5	443.9	437.2	432.8	435.0	435.0
25°	1329.5	1162.2	722.8	497.5	457.3	437.2	419.4	410.5	410.5	412.7	414.9
27.5°	1429.9	1215.8	675.9	470.7	435.0	414.9	394.8	385.9	388.2	392.6	392.6
30°	1577.2	1289.4	629.1	441.7	410.5	388.2	370.3	361.4	365.8	374.8	374.8
32.5°	1786.8	1409.8	588.9	408.2	374.8	350.2	332.4	325.7	336.8	354.7	354.7
35°	2161.6	1630.7	564.4	374.8	336.8	307.8	285.5	278.8	294.5	316.8	316.8
37.5°	2663.5	1985.4	573.3	345.8	305.6	272.2	247.6	238.7	249.8	269.9	276.6
40°	3223.5	2413.7	651.4	321.2	276.6	243.2	218.6	209.7	216.4	225.3	227.5
42.5°	3783.4	2868.8	798.6	303.4	254.3	218.6	196.3	189.6	194.1	196.3	198.5
45°	4341.1	3319.4	983.8	292.2	234.2	198.5	176.2	176.2	178.5	178.5	178.5
47.5°	4869.8	3758.8	1177.8	290.0	216.4	178.5	160.6	162.8	162.8	165.1	165.1
50°	5369.5	4151.5	1374.2	296.7	200.8	160.6	147.2	147.2	147.2	149.5	147.2
52.5°	5786.6	4495.0	1579.4	307.8	185.2	147.2	133.8	133.8	133.8	136.1	133.8
55°	6181.5	4807.3	1789.1	323.5	171.8	136.1	122.7	118.2	118.2	120.5	118.2
57.5°	6502.7	5014.8	1987.6	325.7	160.6	124.9	113.8	107.1	107.1	107.1	107.1
60°	6516.1	4894.3	2045.6	285.5	147.2	113.8	102.6	93.7	95.9	95.9	95.9
62.5°	6090.0	4260.8	1644.1	214.2	131.6	102.6	93.7	84.8	84.8	84.8	84.8
65°	5253.5	3314.9	963.7	169.5	113.8	91.5	82.5	75.8	75.8	75.8	73.6
66°	4860.8	2906.7	738.4	153.9	107.1	89.2	80.3	73.6	71.4	69.2	69.2
67.5°	4220.6	2297.7	461.8	136.1	98.2	82.5	73.6	66.9	64.7	62.5	62.5
70°	3178.8	1458.9	225.3	104.8	84.8	71.4	64.7	58.0	55.8	53.5	51.3
72.5°	2230.8	854.4	118.2	80.3	69.2	62.5	55.8	49.1	46.8	44.6	44.6
75°	1260.4	412.7	78.1	58.0	55.8	51.3	46.8	40.2	37.9	37.9	37.9
77.5°	477.4	142.8	53.5	42.4	44.6	40.2	33.5	33.5	31.2	33.5	31.2
80°	124.9	62.5	33.5	31.2	33.5	29.0	24.5	26.8	26.8	26.8	26.8
82.5°	66.9	35.7	20.1	22.3	20.1	20.1	15.6	17.8	20.1	17.8	20.1
85°	46.8	17.8	11.2	11.2	8.9	8.9	6.7	8.9	11.2	8.9	8.9
87.5°	24.5	6.7	6.7	6.7	6.7	4.5	2.2	0.0	2.2	2.2	2.2
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)