

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: P1210938

Luminaire Tested: **ARCH4-120-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210938
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: ARCH4-120-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1000mA 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: 13612 lumens
Efficiency: N/A
Efficacy: 111.6 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

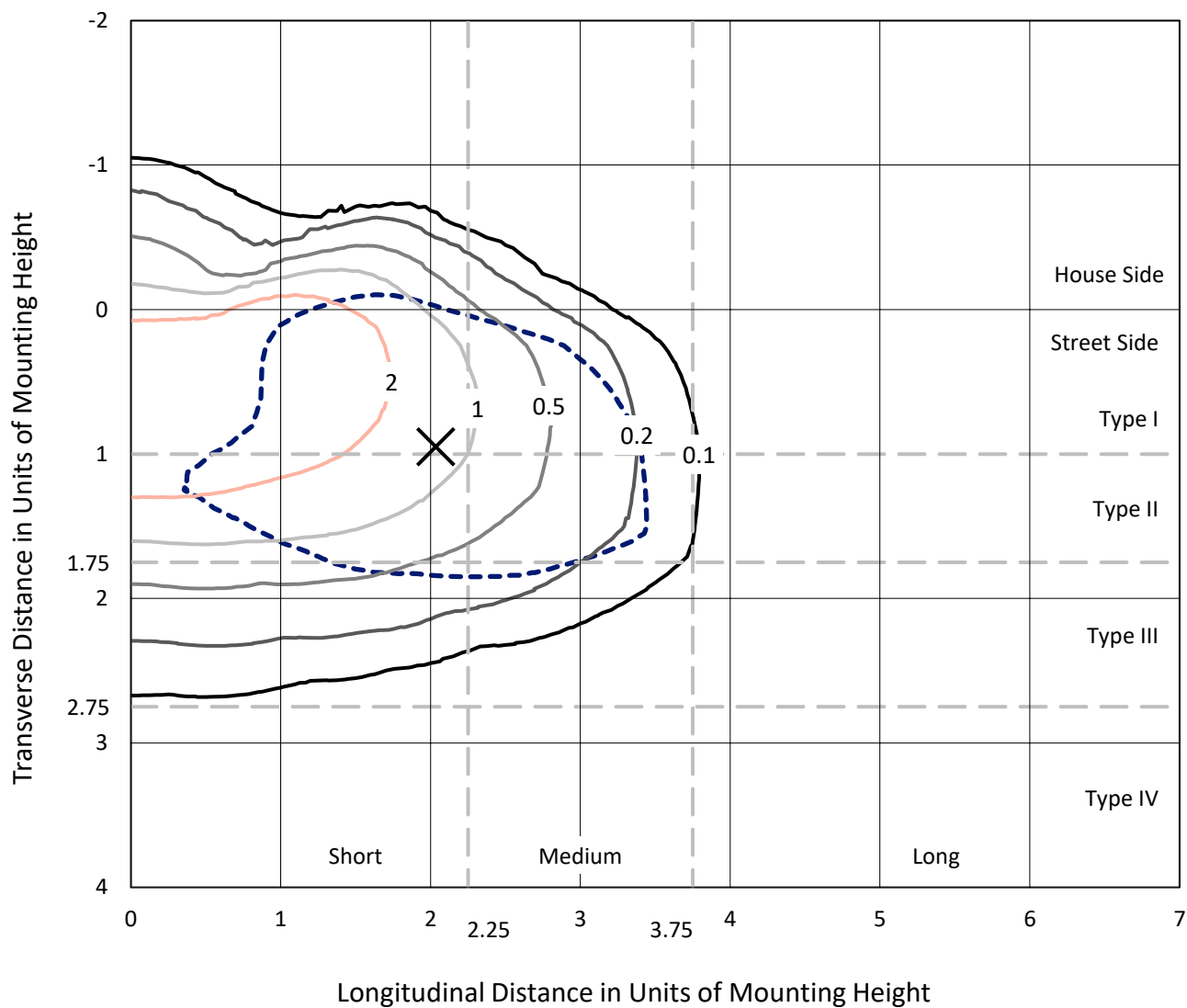
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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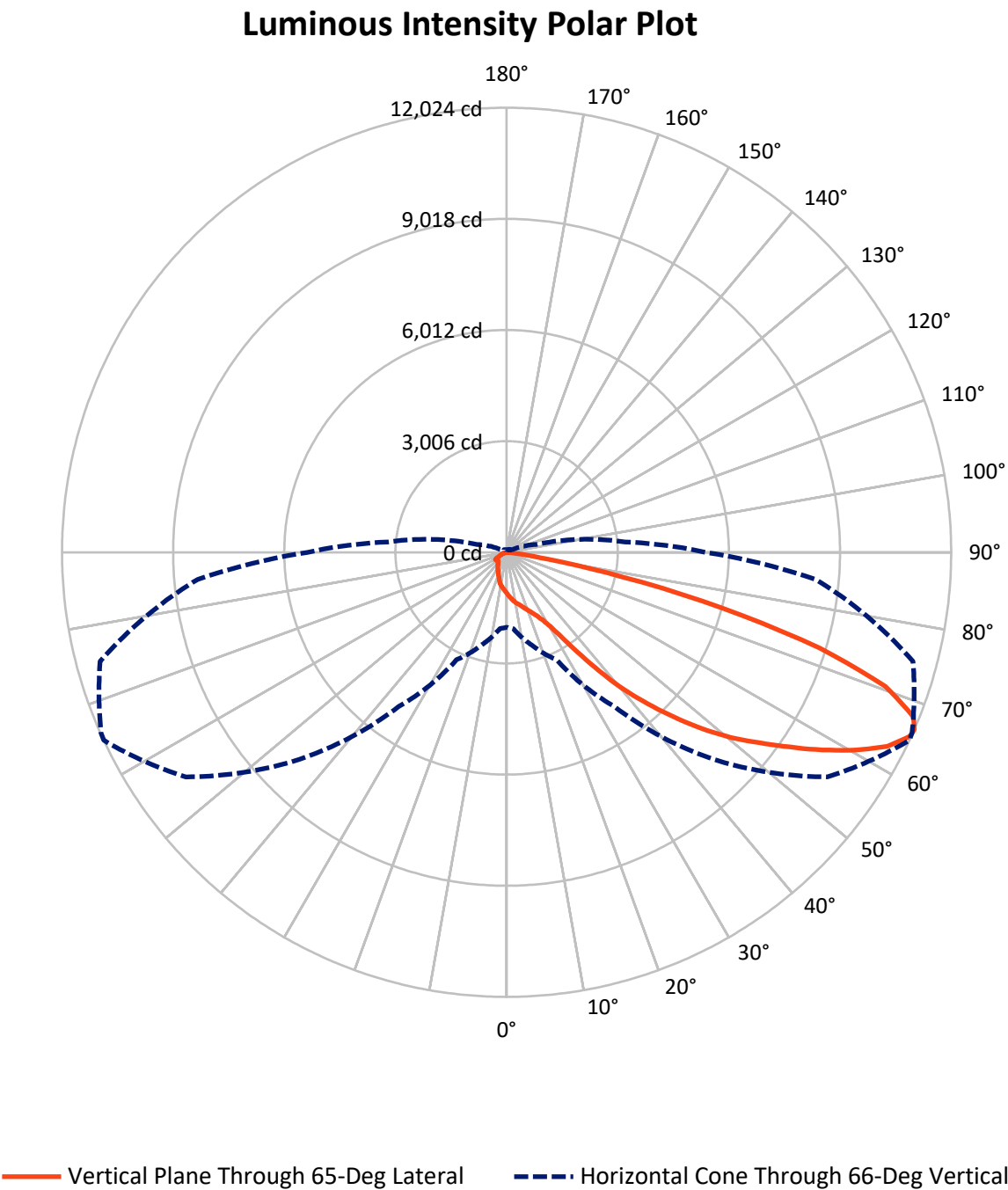
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1606.5	0.0	1606.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12005.5	0.0	12005.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	13612.0	0.0	13612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.1	0.8
10°-20°	311.2	2.3
20°-30°	569.7	4.2
30°-40°	1157.5	8.5
40°-50°	2444.3	18.0
50°-60°	3757.8	27.6
60°-70°	3782.5	27.8
70°-80°	1413.3	10.4
80°-90°	70.6	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°	13612.0	100.0
0°-180°	13612.0	100.0

Coefficient of Utilization



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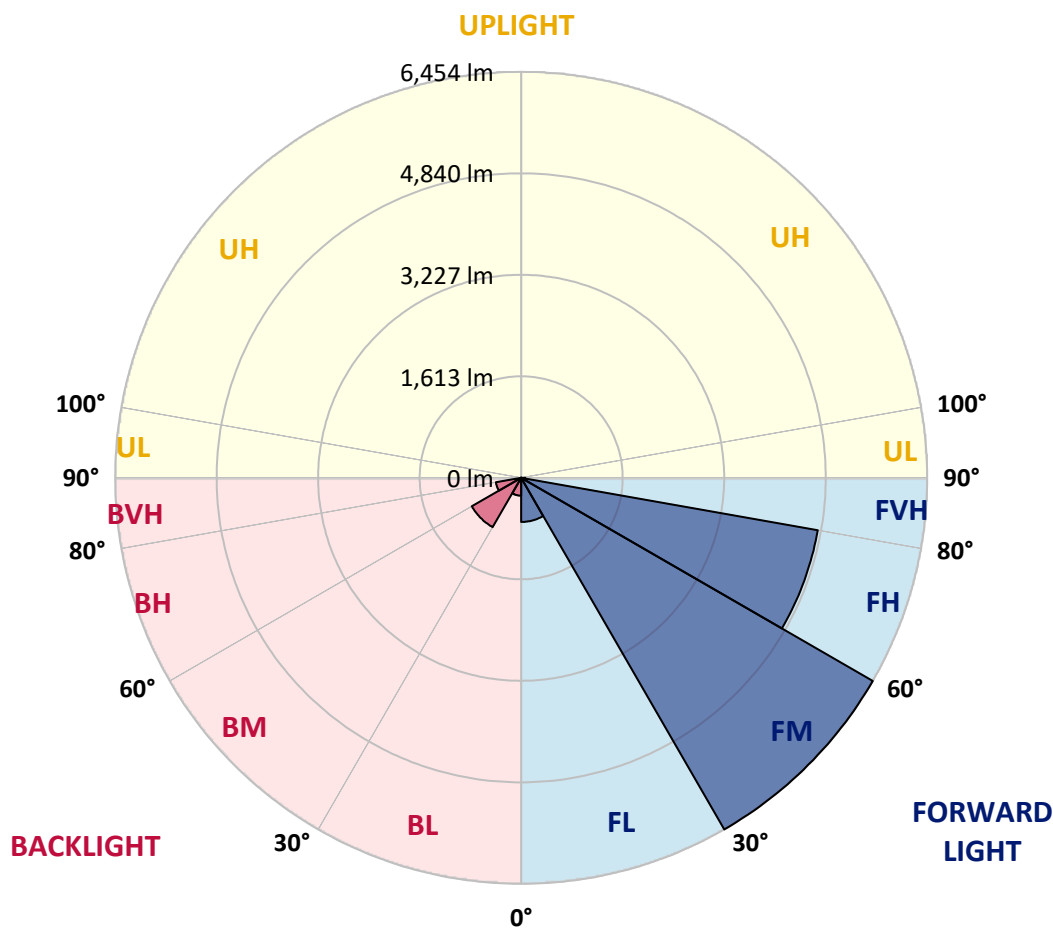
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	701.7	5.2			
FM	(30°-60°)	6453.9	47.4			
FH	(60°-80°)	4787.7	35.2			G2/5000
FVH	(80°-90°)	62.3	0.5			G1/100
BL	(0°-30°)	284.3	2.1	B1/500		
BM	(30°-60°)	905.8	6.7	B1/1000		
BH	(60°-80°)	408.1	3.0	B1/500		G1/500
BVH	(80°-90°)	8.3	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°	1109.0	1109.0	1109.0	1109.0	1109.0	1109.0	1109.0	1109.0	1109.0	1109.0	1109.0
2.5°	1264.6	1267.1	1262.1	1252.3	1242.4	1230.0	1210.3	1178.2	1173.2	1151.0	1126.3
5°	1351.0	1356.0	1348.6	1346.1	1341.2	1323.9	1296.7	1249.8	1244.8	1200.4	1143.6
7.5°	1380.7	1388.1	1383.2	1383.2	1383.2	1375.7	1363.4	1321.4	1314.0	1257.2	1170.7
10°	1402.9	1407.9	1405.4	1415.3	1422.7	1417.7	1410.3	1385.6	1378.2	1321.4	1207.8
12.5°	1437.5	1440.0	1442.4	1447.4	1459.7	1464.7	1462.2	1440.0	1435.0	1395.5	1254.7
15°	1469.6	1469.6	1472.1	1494.3	1511.6	1521.5	1523.9	1506.7	1501.7	1469.6	1314.0
17.5°	1499.2	1501.7	1509.1	1533.8	1563.5	1583.2	1595.6	1588.2	1580.8	1556.1	1383.2
20°	1543.7	1548.6	1556.1	1590.6	1620.3	1652.4	1677.1	1674.6	1672.1	1654.8	1464.7
22.5°	1620.3	1625.2	1637.6	1669.7	1699.3	1738.8	1780.8	1778.3	1770.9	1758.6	1561.0
25°	1736.4	1736.4	1743.8	1770.9	1808.0	1854.9	1894.4	1901.8	1894.4	1887.0	1682.0
27.5°	1882.1	1884.6	1884.6	1914.2	1948.8	2008.0	2057.4	2064.9	2064.9	2057.4	1845.0
30°	2084.6	2077.2	2072.3	2097.0	2134.0	2220.5	2306.9	2321.7	2314.3	2326.7	2074.7
32.5°	2432.9	2420.5	2378.5	2383.5	2405.7	2524.3	2670.0	2721.9	2719.4	2741.6	2445.2
35°	2914.5	2889.8	2828.1	2776.2	2773.7	2902.2	3124.5	3319.6	3317.1	3393.7	3008.4
37.5°	3457.9	3490.0	3373.9	3285.0	3257.8	3359.1	3645.6	4068.0	4090.2	4223.6	3746.9
40°	4184.0	4203.8	4055.6	3929.6	3801.2	3838.3	4216.2	4873.2	4912.7	5060.9	4485.4
42.5°	4816.3	4836.1	4749.7	4596.5	4433.5	4364.4	4791.6	5604.3	5636.4	5841.4	5246.1
45°	5246.1	5260.9	5290.6	5305.4	5120.1	4976.9	5495.6	6355.1	6394.6	6631.7	5989.6
47.5°	5582.0	5594.4	5653.7	5801.8	5764.8	5651.2	6211.9	7135.6	7145.5	7409.8	6713.2
50°	5737.6	5767.3	5913.0	6140.2	6303.2	6335.4	6989.9	7874.1	7901.3	8153.2	7397.4
52.5°	5564.7	5574.6	5942.6	6369.9	6698.4	7024.5	7770.4	8558.3	8637.3	8825.0	8012.4
55°	4981.8	5053.5	5611.7	6362.5	7009.6	7679.0	8605.2	9296.8	9368.4	9487.0	8553.3
57.5°	4305.1	4384.1	5063.3	6043.9	7143.0	8284.1	9378.3	10082.2	10131.6	10163.7	9049.8
60°	3719.7	3793.8	4492.8	5433.8	7009.6	8711.4	10097.0	10862.7	10904.7	10818.3	9299.3
62.5°	3001.0	3075.1	3779.0	4626.2	6486.0	8797.9	10630.5	11556.8	11574.1	11339.4	9146.1
65°	2262.4	2311.8	2899.7	3625.8	5569.7	8338.5	10751.6	11989.0	11971.7	11490.1	8686.7
66°	2027.8	2069.8	2588.5	3206.0	5093.0	7918.6	10588.6	12023.6	12006.3	11378.9	8385.4
67.5°	1748.7	1761.1	2188.4	2623.1	4260.6	7026.9	10092.1	11865.5	11880.3	11072.7	7834.6
70°	1365.9	1363.4	1610.4	1825.3	2909.6	4999.1	8417.5	10870.1	10941.8	9916.7	6681.1
72.5°	874.4	844.7	988.0	1116.4	1694.4	2902.2	6137.8	8859.6	8980.6	7790.1	4976.9
75°	521.2	491.5	526.1	558.2	812.6	1395.5	3608.6	6029.1	6145.2	4994.2	2961.4
77.5°	390.2	377.9	380.4	353.2	360.6	523.6	1647.4	3186.2	3270.2	2045.1	1123.8
80°	298.9	266.8	249.5	261.8	237.1	207.5	612.5	1096.6	1148.5	484.1	234.6
82.5°	200.1	172.9	160.5	175.4	150.7	116.1	148.2	212.4	207.5	130.9	91.4
85°	103.7	88.9	88.9	88.9	76.6	56.8	64.2	86.4	86.4	69.2	54.3
87.5°	29.6	27.2	32.1	29.6	22.2	22.2	24.7	29.6	29.6	27.2	24.7
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°	1109.0	1109.0	1109.0	1109.0	1109.0	1109.0	1109.0	1109.0	1109.0	1109.0	1109.0
2.5°	1106.5	1096.6	1069.5	1049.7	1030.0	1012.7	992.9	988.0	978.1	980.6	975.6
5°	1113.9	1086.8	1039.8	995.4	960.8	931.2	894.1	879.3	859.5	852.1	847.2
7.5°	1123.8	1084.3	1015.1	953.4	894.1	834.8	775.6	741.0	718.7	708.9	701.5
10°	1146.0	1094.2	1002.8	906.5	805.2	721.2	661.9	637.2	622.4	620.0	617.5
12.5°	1175.7	1109.0	990.4	847.2	713.8	634.8	597.7	590.3	587.8	587.8	585.4
15°	1220.1	1133.7	970.7	778.0	642.2	587.8	570.6	558.2	553.3	553.3	553.3
17.5°	1264.6	1163.3	941.0	706.4	592.8	558.2	540.9	533.5	528.6	531.0	528.6
20°	1321.4	1197.9	901.5	644.6	560.7	533.5	516.2	508.8	506.3	506.3	506.3
22.5°	1385.6	1237.4	852.1	597.7	533.5	508.8	491.5	484.1	479.2	481.6	481.6
25°	1472.1	1286.8	800.3	550.8	506.3	484.1	464.3	454.5	454.5	456.9	459.4
27.5°	1583.2	1346.1	748.4	521.2	481.6	459.4	437.2	427.3	429.8	434.7	434.7
30°	1746.2	1427.6	696.5	489.0	454.5	429.8	410.0	400.1	405.1	414.9	414.9
32.5°	1978.4	1561.0	652.1	452.0	414.9	387.8	368.0	360.6	373.0	392.7	392.7
35°	2393.4	1805.5	624.9	414.9	373.0	340.8	316.2	308.7	326.0	350.7	350.7
37.5°	2949.1	2198.2	634.8	382.8	338.4	301.3	274.2	264.3	276.6	298.9	306.3
40°	3569.0	2672.5	721.2	355.7	306.3	269.2	242.1	232.2	239.6	249.5	251.9
42.5°	4189.0	3176.3	884.2	335.9	281.6	242.1	217.4	209.9	214.9	217.4	219.8
45°	4806.5	3675.2	1089.2	323.6	259.3	219.8	195.1	195.1	197.6	197.6	197.6
47.5°	5391.8	4161.8	1304.1	321.1	239.6	197.6	177.8	180.3	180.3	182.8	182.8
50°	5945.1	4596.5	1521.5	328.5	222.3	177.8	163.0	163.0	163.0	165.5	163.0
52.5°	6407.0	4976.9	1748.7	340.8	205.0	163.0	148.2	148.2	148.2	150.7	148.2
55°	6844.2	5322.7	1980.9	358.1	190.2	150.7	135.8	130.9	130.9	133.4	130.9
57.5°	7199.8	5552.4	2200.7	360.6	177.8	138.3	126.0	118.6	118.6	118.6	118.6
60°	7214.6	5419.0	2264.9	316.2	163.0	126.0	113.6	103.7	106.2	106.2	106.2
62.5°	6742.9	4717.6	1820.3	237.1	145.7	113.6	103.7	93.9	93.9	93.9	93.9
65°	5816.7	3670.3	1067.0	187.7	126.0	101.3	91.4	84.0	84.0	84.0	81.5
66°	5382.0	3218.3	817.5	170.4	118.6	98.8	88.9	81.5	79.0	76.6	76.6
67.5°	4673.1	2544.0	511.3	150.7	108.7	91.4	81.5	74.1	71.6	69.2	69.2
70°	3519.6	1615.3	249.5	116.1	93.9	79.0	71.6	64.2	61.7	59.3	56.8
72.5°	2469.9	946.0	130.9	88.9	76.6	69.2	61.7	54.3	51.9	49.4	49.4
75°	1395.5	456.9	86.4	64.2	61.7	56.8	51.9	44.5	42.0	42.0	42.0
77.5°	528.6	158.1	59.3	46.9	49.4	44.5	37.0	37.0	34.6	37.0	34.6
80°	138.3	69.2	37.0	34.6	37.0	32.1	27.2	29.6	29.6	29.6	29.6
82.5°	74.1	39.5	22.2	24.7	22.2	22.2	17.3	19.8	22.2	19.8	22.2
85°	51.9	19.8	12.3	12.3	9.9	9.9	7.4	9.9	12.3	9.9	9.9
87.5°	27.2	7.4	7.4	7.4	7.4	4.9	2.5	0.0	2.5	2.5	2.5
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)