

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: P1210942

Luminaire Tested: **ARCH4-120-730-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210942
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: ARCH4-120-730-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 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: 14105 lumens
Efficiency: N/A
Efficacy: 115.6 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

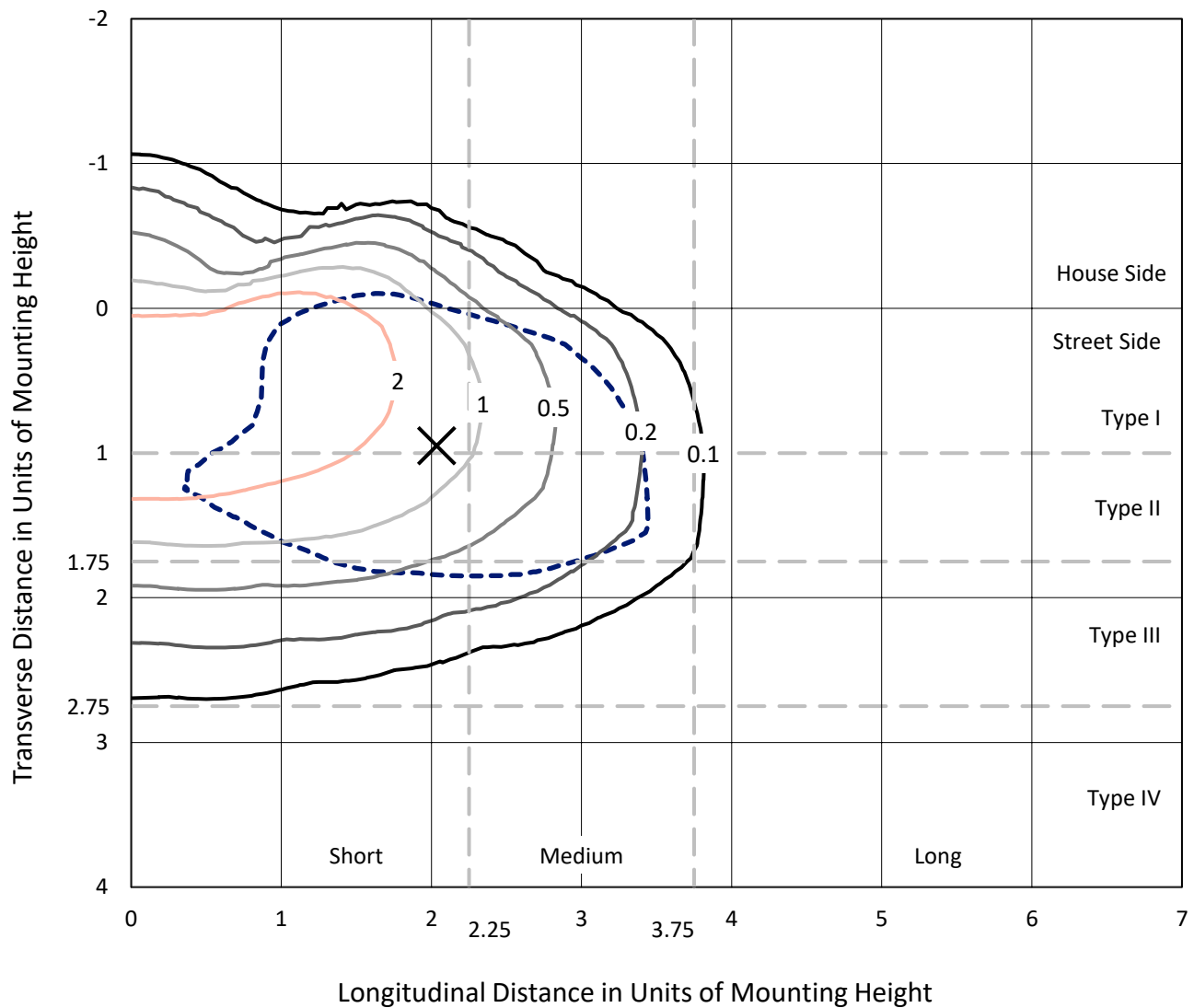


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Iso-Footcandle Lines of Horizontal Illumination

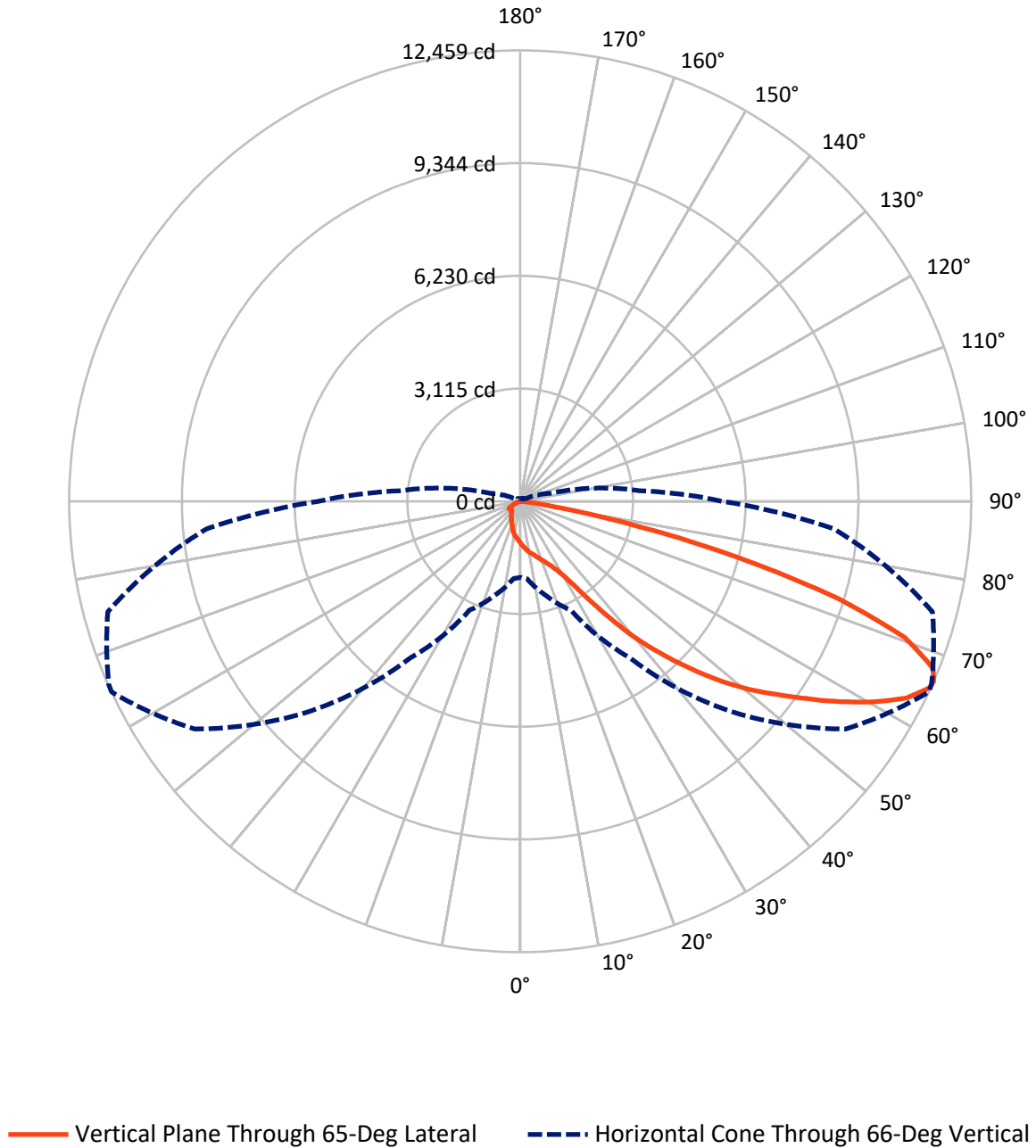
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	1664.7	0.0	1664.7
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	12440.3	0.0	12440.3
	% Fixture	88.2	0.0	88.2
Total	Lumens	14105.0	0.0	14105.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	0.8
10°-20°	322.5	2.3
20°-30°	590.3	4.2
30°-40°	1199.4	8.5
40°-50°	2532.9	18.0
50°-60°	3893.9	27.6
60°-70°	3919.4	27.8
70°-80°	1464.5	10.4
80°-90°	73.2	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°	14105.0	100.0
0°-180°	14105.0	100.0

Coefficient of Utilization



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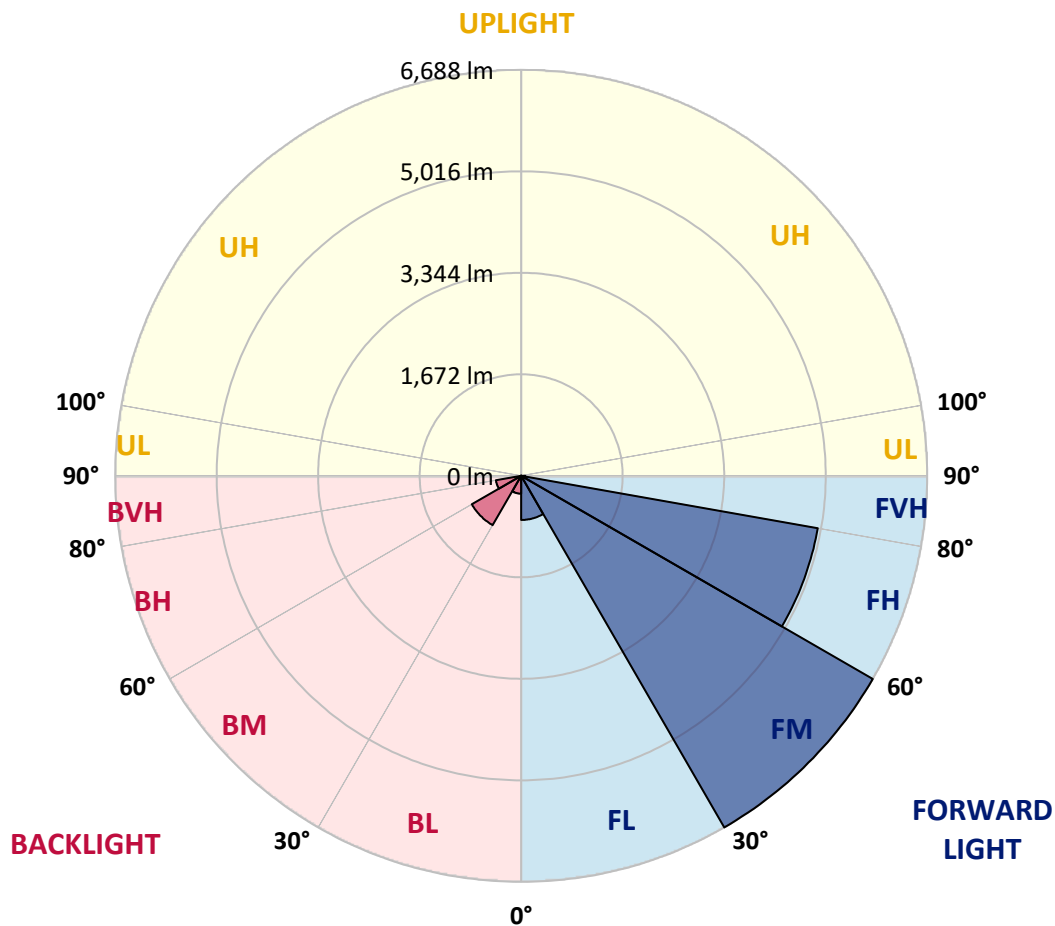
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	727.1	5.2			
FM	(30°-60°)	6687.6	47.4			
FH	(60°-80°)	4961.1	35.2			G2/5000
FVH	(80°-90°)	64.6	0.5			G1/100
BL	(0°-30°)	294.6	2.1	B1/500		
BM	(30°-60°)	938.6	6.7	B1/1000		
BH	(60°-80°)	422.9	3.0	B1/500		G1/500
BVH	(80°-90°)	8.6	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°	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2
2.5°	1310.4	1313.0	1307.8	1297.6	1287.4	1274.6	1254.1	1220.8	1215.7	1192.7	1167.1
5°	1400.0	1405.1	1397.4	1394.9	1389.7	1371.8	1343.7	1295.0	1289.9	1243.9	1185.0
7.5°	1430.7	1438.4	1433.3	1433.3	1433.3	1425.6	1412.8	1369.3	1361.6	1302.7	1213.1
10°	1453.7	1458.8	1456.3	1466.5	1474.2	1469.1	1461.4	1435.8	1428.1	1369.3	1251.5
12.5°	1489.6	1492.1	1494.7	1499.8	1512.6	1517.7	1515.2	1492.1	1487.0	1446.0	1300.2
15°	1522.8	1522.8	1525.4	1548.4	1566.3	1576.6	1579.1	1561.2	1556.1	1522.8	1361.6
17.5°	1553.5	1556.1	1563.8	1589.4	1620.1	1640.6	1653.4	1645.7	1638.0	1612.4	1433.3
20°	1599.6	1604.7	1612.4	1648.2	1679.0	1712.2	1737.8	1735.3	1732.7	1714.8	1517.7
22.5°	1679.0	1684.1	1696.9	1730.1	1760.9	1801.8	1845.3	1842.8	1835.1	1822.3	1617.5
25°	1799.2	1799.2	1806.9	1835.1	1873.5	1922.1	1963.0	1970.7	1963.0	1955.4	1742.9
27.5°	1950.2	1952.8	1952.8	1983.5	2019.3	2080.8	2132.0	2139.6	2139.6	2132.0	1911.9
30°	2160.1	2152.4	2147.3	2172.9	2211.3	2300.9	2390.5	2405.8	2398.1	2410.9	2149.9
32.5°	2521.0	2508.2	2464.7	2469.8	2492.8	2615.7	2766.7	2820.4	2817.9	2840.9	2533.8
35°	3020.1	2994.5	2930.5	2876.7	2874.2	3007.3	3237.6	3439.8	3437.2	3516.6	3117.3
37.5°	3583.1	3616.4	3496.1	3404.0	3375.8	3480.8	3777.6	4215.3	4238.3	4376.5	3882.6
40°	4335.6	4356.1	4202.5	4072.0	3938.9	3977.3	4368.9	5049.7	5090.6	5244.2	4647.8
42.5°	4990.8	5011.3	4921.7	4763.0	4594.1	4522.4	4965.2	5807.2	5840.5	6052.9	5436.1
45°	5436.1	5451.5	5482.2	5497.5	5305.6	5157.1	5694.6	6585.3	6626.2	6871.9	6206.5
47.5°	5784.2	5797.0	5858.4	6012.0	5973.6	5855.9	6436.8	7394.0	7404.3	7678.1	6956.4
50°	5945.4	5976.1	6127.2	6362.6	6531.5	6564.8	7243.0	8159.3	8187.4	8448.5	7665.3
52.5°	5766.3	5776.5	6157.9	6600.6	6941.0	7278.9	8051.8	8868.2	8950.1	9144.7	8302.6
55°	5162.3	5236.5	5814.9	6593.0	7263.5	7957.1	8916.9	9633.5	9707.7	9830.6	8863.1
57.5°	4461.0	4542.9	5246.7	6262.8	7401.7	8584.2	9718.0	10447.4	10498.6	10531.8	9377.6
60°	3854.4	3931.2	4655.5	5630.6	7263.5	9026.9	10462.7	11256.1	11299.7	11210.1	9636.1
62.5°	3109.6	3186.4	3915.8	4793.7	6720.9	9116.5	11015.6	11975.3	11993.2	11750.1	9477.4
65°	2344.4	2395.6	3004.7	3757.2	5771.4	8640.5	11141.0	12423.2	12405.3	11906.2	9001.3
66°	2101.2	2144.8	2682.2	3322.1	5277.4	8205.4	10972.1	12459.1	12441.1	11791.1	8689.1
67.5°	1812.0	1824.8	2267.6	2718.1	4414.9	7281.4	10457.6	12295.3	12310.6	11473.7	8118.3
70°	1415.3	1412.8	1668.7	1891.4	3014.9	5180.2	8722.4	11263.8	11338.0	10275.9	6923.1
72.5°	906.0	875.3	1023.8	1156.8	1755.7	3007.3	6360.1	9180.5	9305.9	8072.3	5157.1
75°	540.0	509.3	545.1	578.4	842.0	1446.0	3739.3	6247.4	6367.7	5175.1	3068.7
77.5°	404.4	391.6	394.1	366.0	373.7	542.6	1707.1	3301.6	3388.6	2119.2	1164.5
80°	309.7	276.4	258.5	271.3	245.7	215.0	634.7	1136.4	1190.1	501.6	243.1
82.5°	207.3	179.2	166.4	181.7	156.1	120.3	153.6	220.1	215.0	135.6	94.7
85°	107.5	92.1	92.1	92.1	79.3	58.9	66.5	89.6	89.6	71.7	56.3
87.5°	30.7	28.2	33.3	30.7	23.0	23.0	25.6	30.7	30.7	28.2	25.6
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°	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2	1149.2
2.5°	1146.6	1136.4	1108.2	1087.7	1067.3	1049.3	1028.9	1023.8	1013.5	1016.1	1011.0
5°	1154.3	1126.1	1077.5	1031.4	995.6	964.9	926.5	911.1	890.7	883.0	877.9
7.5°	1164.5	1123.6	1051.9	987.9	926.5	865.1	803.6	767.8	744.8	734.5	726.9
10°	1187.6	1133.8	1039.1	939.3	834.4	747.3	685.9	660.3	645.0	642.4	639.8
12.5°	1218.3	1149.2	1026.3	877.9	739.7	657.8	619.4	611.7	609.1	609.1	606.6
15°	1264.3	1174.8	1005.8	806.2	665.4	609.1	591.2	578.4	573.3	573.3	573.3
17.5°	1310.4	1205.5	975.1	732.0	614.3	578.4	560.5	552.8	547.7	550.3	547.7
20°	1369.3	1241.3	934.2	668.0	581.0	552.8	534.9	527.2	524.7	524.7	524.7
22.5°	1435.8	1282.2	883.0	619.4	552.8	527.2	509.3	501.6	496.5	499.1	499.1
25°	1525.4	1333.4	829.2	570.7	524.7	501.6	481.2	470.9	470.9	473.5	476.0
27.5°	1640.6	1394.9	775.5	540.0	499.1	476.0	453.0	442.8	445.3	450.5	450.5
30°	1809.5	1479.3	721.7	506.8	470.9	445.3	424.9	414.6	419.7	430.0	430.0
32.5°	2050.1	1617.5	675.7	468.4	430.0	401.8	381.3	373.7	386.5	406.9	406.9
35°	2480.0	1870.9	647.5	430.0	386.5	353.2	327.6	319.9	337.8	363.4	363.4
37.5°	3055.9	2277.8	657.8	396.7	350.6	312.2	284.1	273.9	286.7	309.7	317.4
40°	3698.3	2769.2	747.3	368.6	317.4	279.0	250.8	240.6	248.3	258.5	261.1
42.5°	4340.7	3291.4	916.3	348.1	291.8	250.8	225.2	217.5	222.7	225.2	227.8
45°	4980.5	3808.4	1128.7	335.3	268.7	227.8	202.2	202.2	204.8	204.8	204.8
47.5°	5587.1	4312.6	1351.4	332.7	248.3	204.8	184.3	186.8	186.8	189.4	189.4
50°	6160.4	4763.0	1576.6	340.4	230.3	184.3	168.9	168.9	168.9	171.5	168.9
52.5°	6639.0	5157.1	1812.0	353.2	212.4	168.9	153.6	153.6	153.6	156.1	153.6
55°	7092.0	5515.5	2052.6	371.1	197.1	156.1	140.8	135.6	135.6	138.2	135.6
57.5°	7460.6	5753.5	2280.4	373.7	184.3	143.3	130.5	122.9	122.9	122.9	122.9
60°	7475.9	5615.3	2346.9	327.6	168.9	130.5	117.7	107.5	110.1	110.1	110.1
62.5°	6987.1	4888.4	1886.3	245.7	151.0	117.7	107.5	97.3	97.3	97.3	97.3
65°	6027.3	3803.2	1105.7	194.5	130.5	104.9	94.7	87.0	87.0	87.0	84.5
66°	5576.9	3334.9	847.2	176.6	122.9	102.4	92.1	84.5	81.9	79.3	79.3
67.5°	4842.3	2636.2	529.8	156.1	112.6	94.7	84.5	76.8	74.2	71.7	71.7
70°	3647.1	1673.8	258.5	120.3	97.3	81.9	74.2	66.5	64.0	61.4	58.9
72.5°	2559.4	980.2	135.6	92.1	79.3	71.7	64.0	56.3	53.7	51.2	51.2
75°	1446.0	473.5	89.6	66.5	64.0	58.9	53.7	46.1	43.5	43.5	43.5
77.5°	547.7	163.8	61.4	48.6	51.2	46.1	38.4	38.4	35.8	38.4	35.8
80°	143.3	71.7	38.4	35.8	38.4	33.3	28.2	30.7	30.7	30.7	30.7
82.5°	76.8	41.0	23.0	25.6	23.0	23.0	17.9	20.5	23.0	20.5	23.0
85°	53.7	20.5	12.8	12.8	10.2	10.2	7.7	10.2	12.8	10.2	10.2
87.5°	28.2	7.7	7.7	7.7	7.7	5.1	2.6	0.0	2.6	2.6	2.6
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)