

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: P1210116

Luminaire Tested: **ARCH2-110-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210116
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: ARCH2-110-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA 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: 10060 lumens
Efficiency: N/A
Efficacy: 91.9 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

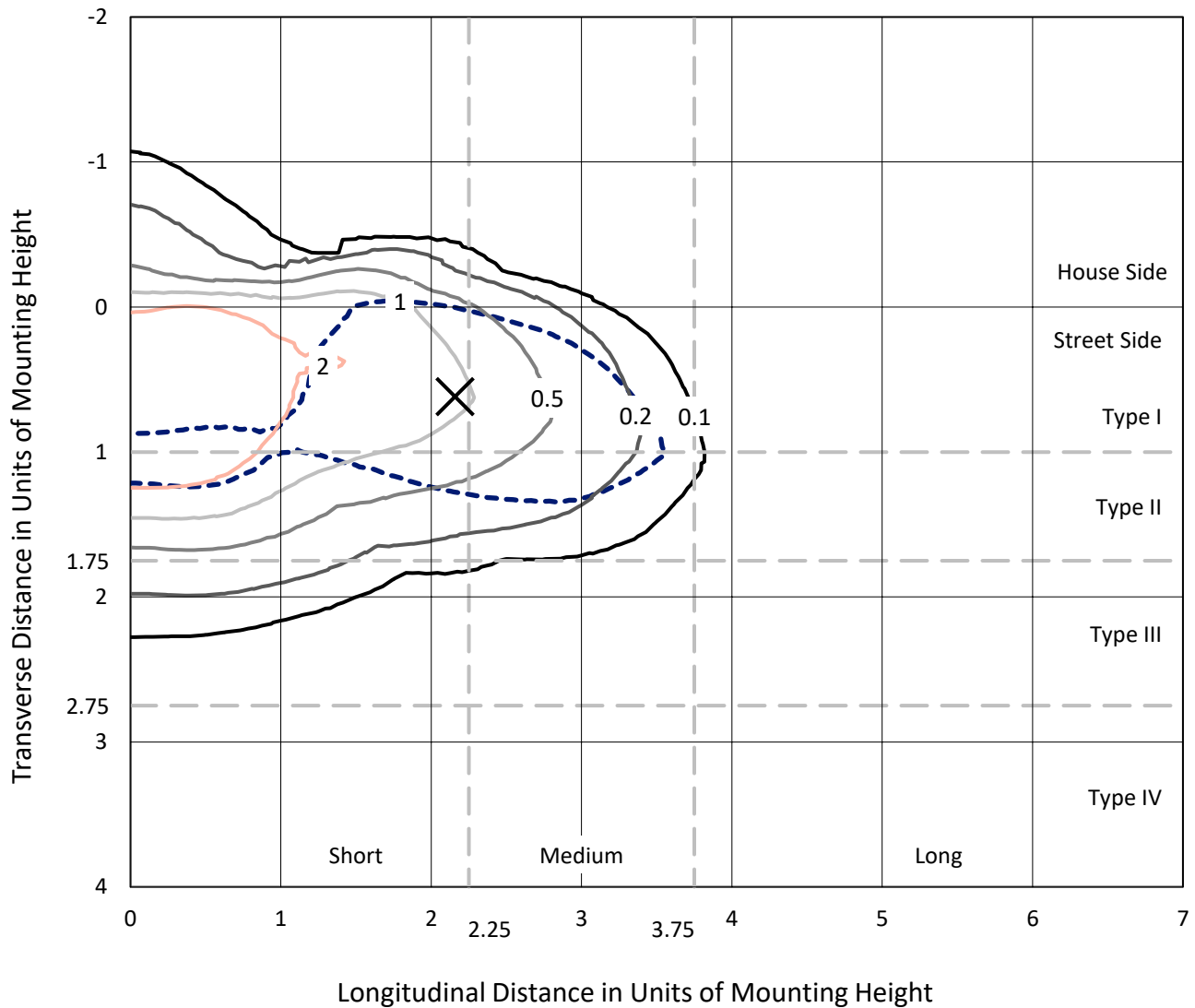
Input Watts (W): 109.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

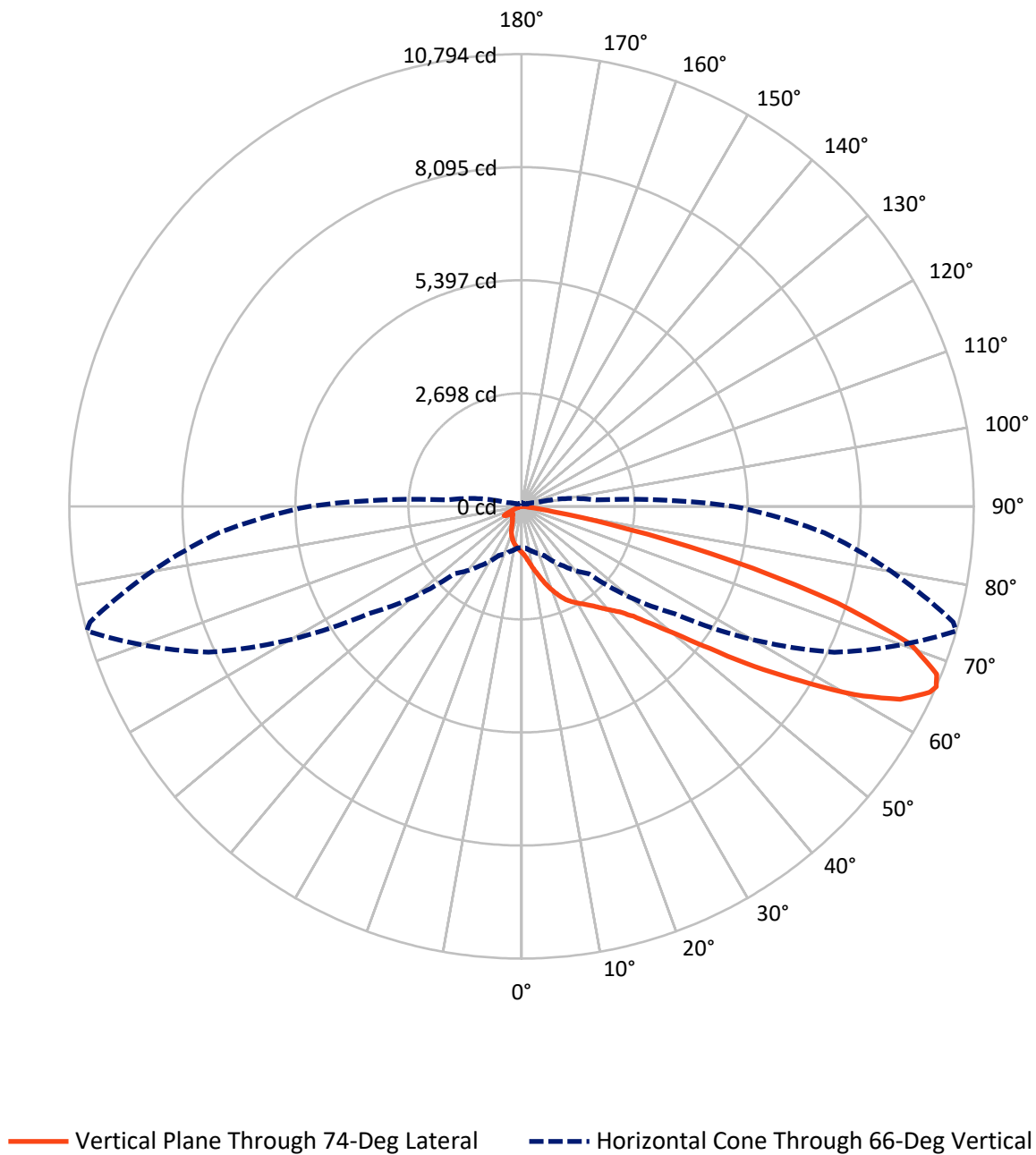
✕ Max cd
- - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	986.2	0.0	986.2
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	9073.8	0.0	9073.8
	% Fixture	90.2	0.0	90.2
Total	Lumens	10060.0	0.0	10060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.1
10°-20°	343.6	3.4
20°-30°	655.8	6.5
30°-40°	1149.4	11.4
40°-50°	1970.9	19.6
50°-60°	2563.4	25.5
60°-70°	2320.5	23.1
70°-80°	895.4	8.9
80°-90°	53.9	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°	10060.0	100.0
0°-180°	10060.0	100.0

Coefficient of Utilization



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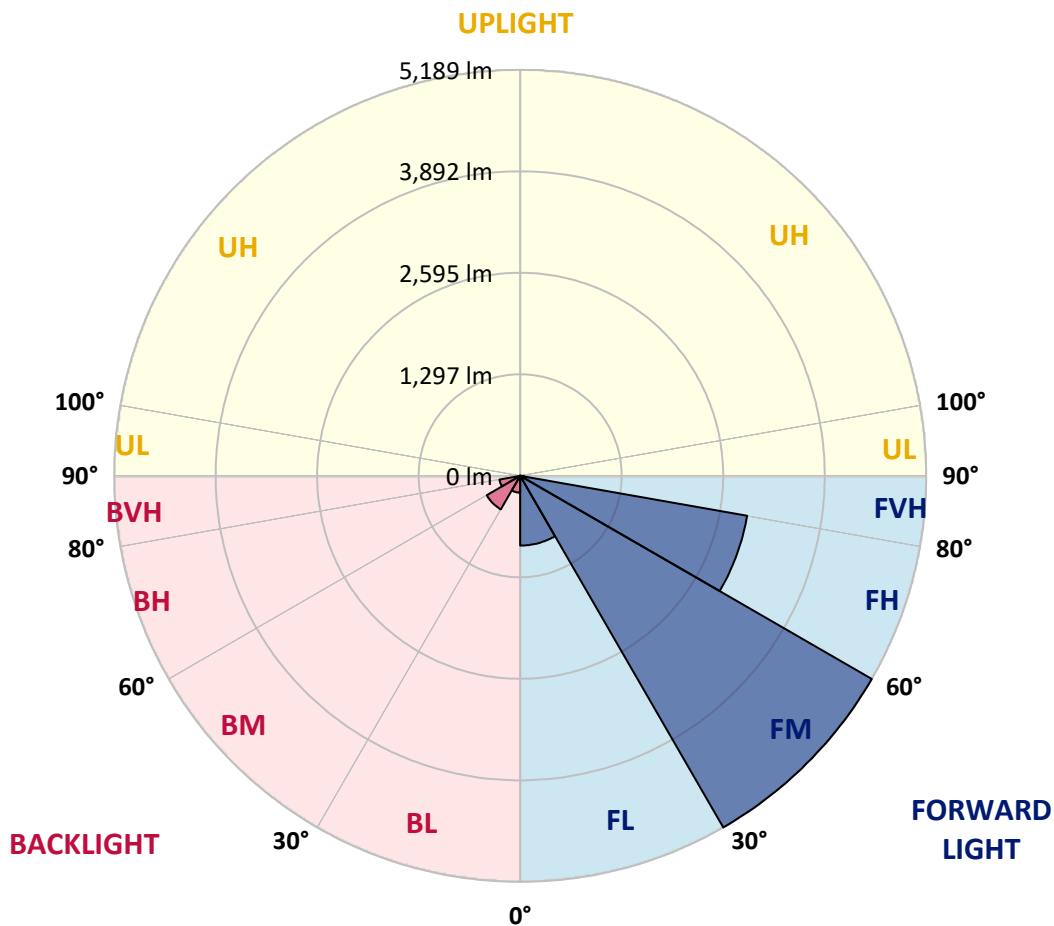
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	891.5	8.9			
FM	(30°-60°)	5189.5	51.6			
FH	(60°-80°)	2946.2	29.3			G2/5000
FVH	(80°-90°)	46.7	0.5			G1/100
BL	(0°-30°)	215.1	2.1	B1/500		
BM	(30°-60°)	494.3	4.9	B1/1000		
BH	(60°-80°)	269.6	2.7	B1/500		G1/500
BVH	(80°-90°)	7.2	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1
2.5°	1318.5	1307.6	1287.8	1286.0	1269.7	1249.9	1215.5	1179.4	1154.1	1150.5	1119.8
5°	1578.6	1573.2	1553.3	1540.6	1509.9	1463.0	1383.5	1304.0	1237.2	1230.0	1161.4
7.5°	1647.2	1650.8	1654.4	1667.1	1656.2	1634.6	1575.0	1463.0	1358.2	1342.0	1222.8
10°	1658.0	1654.4	1654.4	1670.7	1701.4	1732.1	1724.9	1629.1	1493.7	1473.8	1307.6
12.5°	1775.4	1780.9	1768.2	1761.0	1755.6	1771.8	1826.0	1784.5	1636.4	1620.1	1410.6
15°	1927.2	1925.4	1907.3	1907.3	1891.0	1863.9	1898.3	1929.0	1808.0	1788.1	1528.0
17.5°	2037.3	2044.6	2042.7	2053.6	2048.2	2012.0	1994.0	2057.2	1985.0	1959.7	1661.7
20°	2125.8	2145.7	2152.9	2187.2	2203.5	2178.2	2131.3	2171.0	2154.7	2131.3	1797.1
22.5°	2219.8	2236.0	2248.7	2308.3	2353.4	2348.0	2288.4	2279.4	2319.1	2297.4	1930.8
25°	2313.7	2320.9	2358.8	2431.1	2503.3	2521.4	2460.0	2389.5	2467.2	2447.3	2050.0
27.5°	2416.6	2420.2	2465.4	2553.9	2655.0	2693.0	2644.2	2514.2	2581.0	2581.0	2158.3
30°	2604.5	2640.6	2658.6	2738.1	2826.6	2879.0	2821.2	2646.0	2682.1	2698.4	2272.1
32.5°	3009.0	3014.5	3009.0	3043.4	3061.4	3092.1	3025.3	2794.1	2785.1	2803.1	2384.1
35°	3626.7	3605.1	3547.3	3496.7	3391.9	3334.1	3247.4	2983.8	2911.5	2936.8	2494.3
37.5°	4376.3	4345.6	4213.7	4058.4	3834.4	3603.3	3494.9	3214.9	3072.3	3104.8	2613.5
40°	5091.5	5071.7	4914.5	4723.1	4340.2	3944.6	3715.2	3410.0	3251.1	3263.7	2734.5
42.5°	5680.3	5676.7	5544.9	5344.4	4853.1	4313.1	3975.3	3601.5	3438.9	3458.8	2860.9
45°	6126.4	6092.1	5994.6	5850.1	5349.8	4696.0	4289.6	3892.2	3740.5	3764.0	3050.6
47.5°	6126.4	6131.9	6195.1	6180.6	5696.6	5055.4	4632.8	4258.9	4186.6	4208.3	3363.0
50°	5627.9	5678.5	5960.3	6196.9	5877.2	5335.4	5003.0	4717.6	4791.7	4824.2	3908.5
52.5°	4641.8	4726.7	5216.1	5756.2	5743.5	5476.2	5385.9	5301.0	5633.4	5691.2	4714.0
55°	3527.4	3583.4	4221.0	4930.8	5162.0	5360.6	5720.1	6041.6	6747.8	6735.1	5532.2
57.5°	2635.2	2687.5	3236.6	4024.1	4329.3	4860.3	5891.6	6888.6	7853.1	7901.9	6299.8
60°	1938.0	1977.7	2445.5	3092.1	3532.8	4094.5	5823.0	7723.1	9126.4	9070.5	6977.1
62.5°	1434.1	1455.8	1793.5	2214.3	2799.5	3335.9	5391.3	8293.8	10143.3	10029.5	7354.6
65°	1109.0	1116.2	1291.4	1515.4	2035.5	2593.6	4748.4	8380.5	10705.0	10584.0	7347.4
66°	988.0	993.4	1121.6	1295.0	1732.1	2270.3	4466.6	8241.4	10793.5	10665.3	7257.1
67.5°	829.0	825.4	901.3	1015.1	1300.4	1752.0	3966.3	7835.1	10688.8	10623.7	6968.1
70°	614.1	615.9	653.8	680.9	760.4	969.9	2864.5	6796.5	9850.7	9847.1	6175.2
72.5°	455.1	460.6	489.5	494.9	475.0	525.6	1650.8	5405.8	7880.2	7882.0	4616.5
75°	341.4	350.4	359.4	363.0	345.0	332.3	745.9	3637.6	5183.6	5145.7	2613.5
77.5°	260.1	263.7	270.9	265.5	261.9	229.4	310.7	1773.6	2559.3	2331.7	847.1
80°	189.6	189.6	196.9	189.6	187.8	164.4	169.8	568.9	751.4	624.9	182.4
82.5°	119.2	117.4	122.8	121.0	117.4	104.8	99.3	158.9	173.4	155.3	88.5
85°	66.8	65.0	63.2	61.4	56.0	47.0	54.2	59.6	79.5	81.3	63.2
87.5°	23.5	23.5	21.7	19.9	16.3	16.3	19.9	19.9	28.9	28.9	32.5
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°	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1	1098.1
2.5°	1105.4	1085.5	1056.6	1018.7	991.6	964.5	935.6	919.3	895.8	890.4	897.7
5°	1125.2	1089.1	1016.9	937.4	868.8	807.3	749.6	715.2	680.9	668.3	673.7
7.5°	1166.8	1105.4	982.5	854.3	740.5	648.4	579.8	540.0	509.3	496.7	500.3
10°	1228.2	1134.3	950.0	760.4	614.1	516.6	458.8	433.5	415.4	408.2	410.0
12.5°	1302.2	1175.8	908.5	666.5	505.7	420.8	393.7	388.3	384.7	381.1	382.9
15°	1385.3	1211.9	859.7	574.4	420.8	373.9	364.8	363.0	361.2	361.2	361.2
17.5°	1472.0	1244.4	805.5	487.7	366.6	345.0	339.6	339.6	339.6	341.4	341.4
20°	1553.3	1269.7	742.3	410.0	335.9	317.9	314.3	314.3	316.1	317.9	317.9
22.5°	1632.8	1280.6	668.3	355.8	310.7	294.4	289.0	289.0	289.0	290.8	290.8
25°	1701.4	1280.6	594.2	321.5	289.0	272.7	265.5	263.7	265.5	265.5	265.5
27.5°	1759.2	1275.1	522.0	298.0	267.3	251.1	243.8	242.0	245.6	247.4	247.4
30°	1820.6	1267.9	464.2	276.3	249.2	233.0	225.8	225.8	231.2	238.4	238.4
32.5°	1880.2	1273.3	419.0	258.3	231.2	218.5	211.3	213.1	224.0	234.8	234.8
35°	1943.4	1284.2	391.9	245.6	218.5	205.9	200.5	205.9	216.7	227.6	227.6
37.5°	2006.6	1296.8	375.7	234.8	207.7	195.1	191.5	198.7	211.3	222.2	224.0
40°	2073.5	1307.6	357.6	224.0	200.5	186.0	184.2	191.5	207.7	218.5	220.3
42.5°	2156.5	1329.3	335.9	214.9	193.3	175.2	177.0	182.4	198.7	214.9	216.7
45°	2319.1	1398.0	314.3	205.9	184.2	169.8	166.2	169.8	187.8	205.9	209.5
47.5°	2624.3	1553.3	290.8	196.9	175.2	166.2	151.7	155.3	171.6	191.5	193.3
50°	3209.5	1883.8	278.1	187.8	168.0	153.5	137.3	137.3	149.9	168.0	168.0
52.5°	4121.6	2476.2	285.4	180.6	158.9	140.9	124.6	122.8	130.0	142.7	142.7
55°	5106.0	3126.4	312.5	173.4	148.1	133.7	115.6	106.6	112.0	119.2	119.2
57.5°	5886.2	3453.3	386.5	169.8	135.5	128.2	104.8	92.1	97.5	104.8	104.8
60°	6229.4	3261.9	469.6	173.4	126.4	119.2	93.9	81.3	90.3	97.5	99.3
62.5°	5951.2	2685.7	503.9	164.4	113.8	106.6	92.1	75.9	86.7	92.1	93.9
65°	5349.8	2040.9	393.7	142.7	104.8	92.1	83.1	72.2	81.3	86.7	86.7
66°	5064.4	1779.1	335.9	131.8	101.1	86.7	79.5	72.2	79.5	83.1	84.9
67.5°	4621.9	1403.4	249.2	115.6	93.9	79.5	74.1	68.6	75.9	79.5	79.5
70°	3614.1	836.2	149.9	90.3	81.3	70.4	66.8	63.2	68.6	70.4	70.4
72.5°	2263.1	397.4	95.7	66.8	68.6	66.8	56.0	59.6	61.4	63.2	63.2
75°	1096.3	157.1	65.0	48.8	56.0	63.2	45.2	52.4	54.2	57.8	56.0
77.5°	305.2	75.9	41.5	36.1	48.8	48.8	34.3	41.5	48.8	61.4	56.0
80°	88.5	48.8	27.1	27.1	34.3	34.3	23.5	28.9	32.5	36.1	37.9
82.5°	61.4	32.5	18.1	19.9	19.9	21.7	14.4	14.4	18.1	18.1	19.9
85°	48.8	14.4	10.8	12.6	9.0	10.8	7.2	7.2	9.0	7.2	7.2
87.5°	19.9	7.2	7.2	7.2	5.4	5.4	3.6	1.8	1.8	1.8	1.8
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)