

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: P1210340

Luminaire Tested: **ARCH2-90-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210340
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: ARCH2-90-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 695mA 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: 9115 lumens
Efficiency: N/A
Efficacy: 97.3 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): 93.7
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



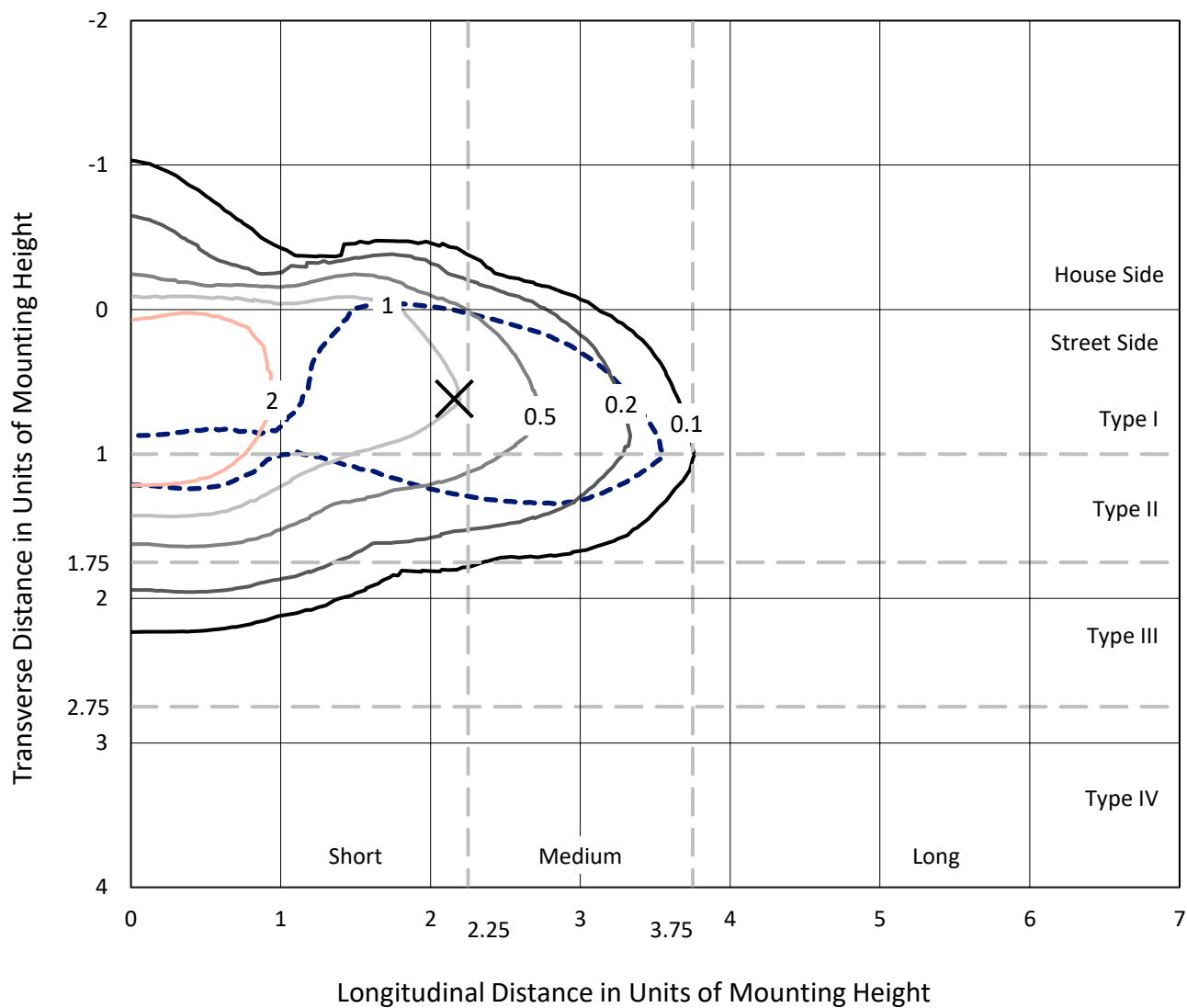
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

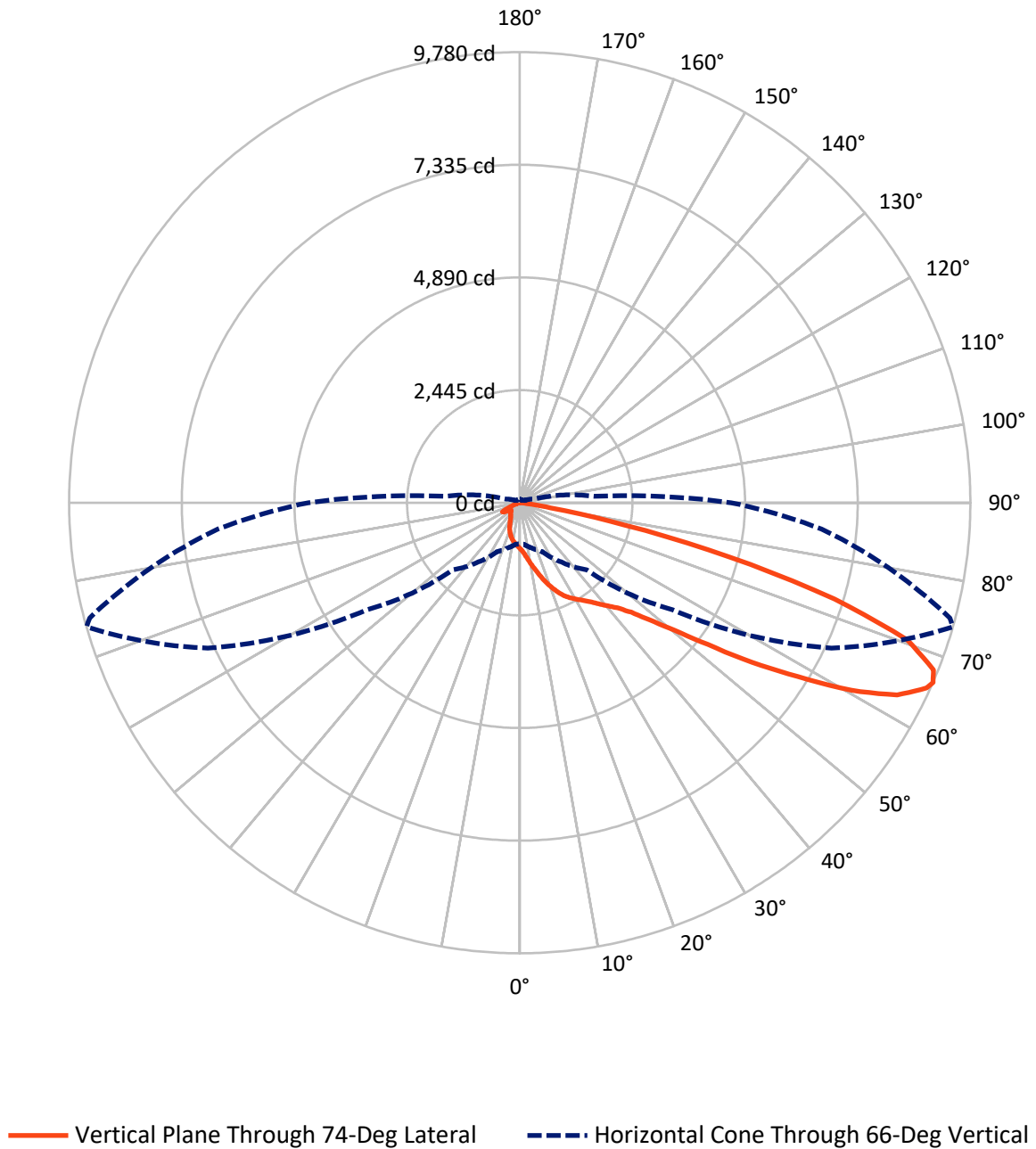
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	893.6	0.0	893.6
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	8221.4	0.0	8221.4
	% Fixture	90.2	0.0	90.2
Total	Lumens	9115.0	0.0	9115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	1.1
10°-20°	311.3	3.4
20°-30°	594.2	6.5
30°-40°	1041.4	11.4
40°-50°	1785.8	19.6
50°-60°	2322.6	25.5
60°-70°	2102.5	23.1
70°-80°	811.3	8.9
80°-90°	48.8	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°	9115.0	100.0
0°-180°	9115.0	100.0

Coefficient of Utilization



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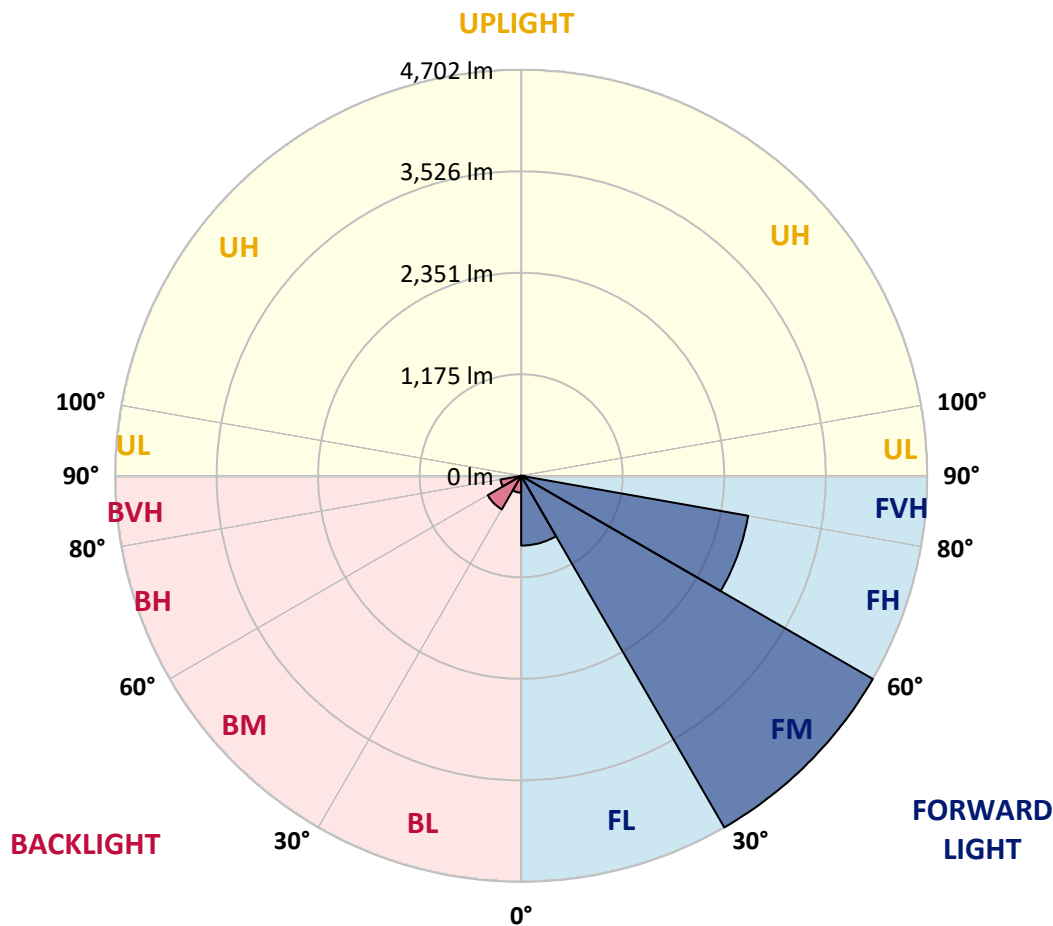
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	807.7	8.9			
FM	(30°-60°)	4702.0	51.6			
FH	(60°-80°)	2669.5	29.3			G2/5000
FVH	(80°-90°)	42.3	0.5			G1/100
BL	(0°-30°)	194.9	2.1	B1/500		
BM	(30°-60°)	447.8	4.9	B1/1000		
BH	(60°-80°)	244.3	2.7	B1/500		G1/500
BVH	(80°-90°)	6.5	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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0
2.5°	1194.6	1184.8	1166.8	1165.2	1150.4	1132.4	1101.4	1068.6	1045.7	1042.4	1014.6
5°	1430.3	1425.4	1407.4	1395.9	1368.1	1325.6	1253.5	1181.5	1121.0	1114.4	1052.3
7.5°	1492.5	1495.7	1499.0	1510.5	1500.7	1481.0	1427.0	1325.6	1230.6	1215.9	1107.9
10°	1502.3	1499.0	1499.0	1513.7	1541.6	1569.4	1562.8	1476.1	1353.4	1335.4	1184.8
12.5°	1608.7	1613.6	1602.1	1595.6	1590.7	1605.4	1654.5	1616.8	1482.7	1467.9	1278.1
15°	1746.1	1744.5	1728.1	1728.1	1713.4	1688.8	1719.9	1747.8	1638.1	1620.1	1384.5
17.5°	1846.0	1852.5	1850.9	1860.7	1855.8	1823.0	1806.7	1864.0	1798.5	1775.6	1505.6
20°	1926.1	1944.1	1950.7	1981.8	1996.5	1973.6	1931.0	1967.1	1952.3	1931.0	1628.3
22.5°	2011.2	2026.0	2037.4	2091.4	2132.3	2127.4	2073.4	2065.2	2101.2	2081.6	1749.4
25°	2096.3	2102.9	2137.2	2202.7	2268.2	2284.5	2228.9	2165.1	2235.4	2217.4	1857.4
27.5°	2189.6	2192.9	2233.8	2314.0	2405.6	2440.0	2395.8	2278.0	2338.5	2338.5	1955.6
30°	2359.8	2392.5	2408.9	2480.9	2561.1	2608.6	2556.2	2397.4	2430.2	2444.9	2058.7
32.5°	2726.4	2731.3	2726.4	2757.5	2773.8	2801.7	2741.1	2531.6	2523.5	2539.8	2160.2
35°	3286.1	3266.4	3214.1	3168.2	3073.3	3020.9	2942.4	2703.5	2638.0	2660.9	2260.0
37.5°	3965.2	3937.4	3817.9	3677.2	3474.3	3264.8	3166.6	2912.9	2783.7	2813.1	2368.0
40°	4613.2	4595.2	4452.9	4279.4	3932.5	3574.1	3366.2	3089.7	2945.7	2957.1	2477.6
42.5°	5146.7	5143.5	5024.0	4842.4	4397.2	3907.9	3601.9	3263.1	3115.9	3133.9	2592.2
45°	5550.9	5519.9	5431.5	5300.6	4847.3	4254.9	3886.6	3526.6	3389.2	3410.4	2764.0
47.5°	5550.9	5555.9	5613.1	5600.0	5161.5	4580.5	4197.6	3858.8	3793.4	3813.0	3047.1
50°	5099.3	5145.1	5400.4	5614.8	5325.1	4834.2	4533.1	4274.5	4341.6	4371.0	3541.3
52.5°	4205.8	4282.7	4726.2	5215.5	5204.0	4961.8	4880.0	4803.1	5104.2	5156.6	4271.2
55°	3196.0	3246.8	3824.5	4467.6	4677.1	4857.1	5182.7	5474.0	6113.9	6102.4	5012.5
57.5°	2387.6	2435.1	2932.6	3646.1	3922.6	4403.8	5338.2	6241.5	7115.4	7159.6	5708.0
60°	1755.9	1791.9	2215.8	2801.7	3201.0	3709.9	5276.0	6997.6	8269.1	8218.4	6321.7
62.5°	1299.4	1319.0	1625.0	2006.3	2536.5	3022.6	4884.9	7514.7	9190.5	9087.4	6663.8
65°	1004.8	1011.3	1170.1	1373.0	1844.3	2350.0	4302.3	7593.3	9699.4	9589.8	6657.2
66°	895.2	900.1	1016.3	1173.4	1569.4	2057.1	4047.0	7467.3	9779.6	9663.4	6575.4
67.5°	751.1	747.9	816.6	919.7	1178.3	1587.4	3593.7	7099.1	9684.7	9625.8	6313.5
70°	556.4	558.0	592.4	617.0	689.0	878.8	2595.5	6158.1	8925.4	8922.1	5595.1
72.5°	412.4	417.3	443.5	448.4	430.4	476.2	1495.7	4898.0	7140.0	7141.6	4182.8
75°	309.3	317.5	325.7	328.9	312.6	301.1	675.9	3295.9	4696.7	4662.3	2368.0
77.5°	235.7	238.9	245.5	240.6	237.3	207.8	281.5	1607.0	2318.9	2112.7	767.5
80°	171.8	171.8	178.4	171.8	170.2	148.9	153.8	515.5	680.8	566.2	165.3
82.5°	108.0	106.4	111.3	109.6	106.4	94.9	90.0	144.0	157.1	140.7	80.2
85°	60.5	58.9	57.3	55.6	50.7	42.5	49.1	54.0	72.0	73.6	57.3
87.5°	21.3	21.3	19.6	18.0	14.7	14.7	18.0	18.0	26.2	26.2	29.5
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°	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0	995.0
2.5°	1001.5	983.5	957.3	923.0	898.4	873.9	847.7	833.0	811.7	806.8	813.3
5°	1019.5	986.8	921.3	849.3	787.1	731.5	679.1	648.0	617.0	605.5	610.4
7.5°	1057.2	1001.5	890.2	774.1	671.0	587.5	525.3	489.3	461.5	450.0	453.3
10°	1112.8	1027.7	860.8	689.0	556.4	468.0	415.7	392.8	376.4	369.8	371.5
12.5°	1179.9	1065.3	823.2	603.9	458.2	381.3	356.8	351.8	348.6	345.3	346.9
15°	1255.2	1098.1	779.0	520.4	381.3	338.8	330.6	328.9	327.3	327.3	327.3
17.5°	1333.7	1127.5	729.9	441.9	332.2	312.6	307.7	307.7	307.7	309.3	309.3
20°	1407.4	1150.4	672.6	371.5	304.4	288.0	284.7	284.7	286.4	288.0	288.0
22.5°	1479.4	1160.3	605.5	322.4	281.5	266.7	261.8	261.8	261.8	263.5	263.5
25°	1541.6	1160.3	538.4	291.3	261.8	247.1	240.6	238.9	240.6	240.6	240.6
27.5°	1593.9	1155.4	472.9	270.0	242.2	227.5	220.9	219.3	222.6	224.2	224.2
30°	1649.6	1148.8	420.6	250.4	225.8	211.1	204.6	204.6	209.5	216.0	216.0
32.5°	1703.6	1153.7	379.7	234.0	209.5	198.0	191.5	193.1	202.9	212.7	212.7
35°	1760.9	1163.5	355.1	222.6	198.0	186.6	181.6	186.6	196.4	206.2	206.2
37.5°	1818.1	1175.0	340.4	212.7	188.2	176.7	173.5	180.0	191.5	201.3	202.9
40°	1878.7	1184.8	324.0	202.9	181.6	168.6	166.9	173.5	188.2	198.0	199.7
42.5°	1954.0	1204.5	304.4	194.7	175.1	158.7	160.4	165.3	180.0	194.7	196.4
45°	2101.2	1266.6	284.7	186.6	166.9	153.8	150.6	153.8	170.2	186.6	189.8
47.5°	2377.8	1407.4	263.5	178.4	158.7	150.6	137.5	140.7	155.5	173.5	175.1
50°	2908.0	1706.9	252.0	170.2	152.2	139.1	124.4	124.4	135.8	152.2	152.2
52.5°	3734.5	2243.6	258.6	163.6	144.0	127.6	112.9	111.3	117.8	129.3	129.3
55°	4626.3	2832.8	283.1	157.1	134.2	121.1	104.7	96.6	101.5	108.0	108.0
57.5°	5333.3	3129.0	350.2	153.8	122.7	116.2	94.9	83.5	88.4	94.9	94.9
60°	5644.2	2955.5	425.5	157.1	114.6	108.0	85.1	73.6	81.8	88.4	90.0
62.5°	5392.2	2433.4	456.6	148.9	103.1	96.6	83.5	68.7	78.6	83.5	85.1
65°	4847.3	1849.2	356.8	129.3	94.9	83.5	75.3	65.5	73.6	78.6	78.6
66°	4588.7	1611.9	304.4	119.5	91.6	78.6	72.0	65.5	72.0	75.3	76.9
67.5°	4187.8	1271.5	225.8	104.7	85.1	72.0	67.1	62.2	68.7	72.0	72.0
70°	3274.6	757.7	135.8	81.8	73.6	63.8	60.5	57.3	62.2	63.8	63.8
72.5°	2050.5	360.0	86.7	60.5	62.2	60.5	50.7	54.0	55.6	57.3	57.3
75°	993.3	142.4	58.9	44.2	50.7	57.3	40.9	47.5	49.1	52.4	50.7
77.5°	276.6	68.7	37.6	32.7	44.2	44.2	31.1	37.6	44.2	55.6	50.7
80°	80.2	44.2	24.5	24.5	31.1	31.1	21.3	26.2	29.5	32.7	34.4
82.5°	55.6	29.5	16.4	18.0	18.0	19.6	13.1	13.1	16.4	16.4	18.0
85°	44.2	13.1	9.8	11.5	8.2	9.8	6.5	6.5	8.2	6.5	6.5
87.5°	18.0	6.5	6.5	6.5	4.9	4.9	3.3	1.6	1.6	1.6	1.6
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)