

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: P1210792

Luminaire Tested: **ARCH3-70-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210792
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: ARCH3-70-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8662 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.1
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

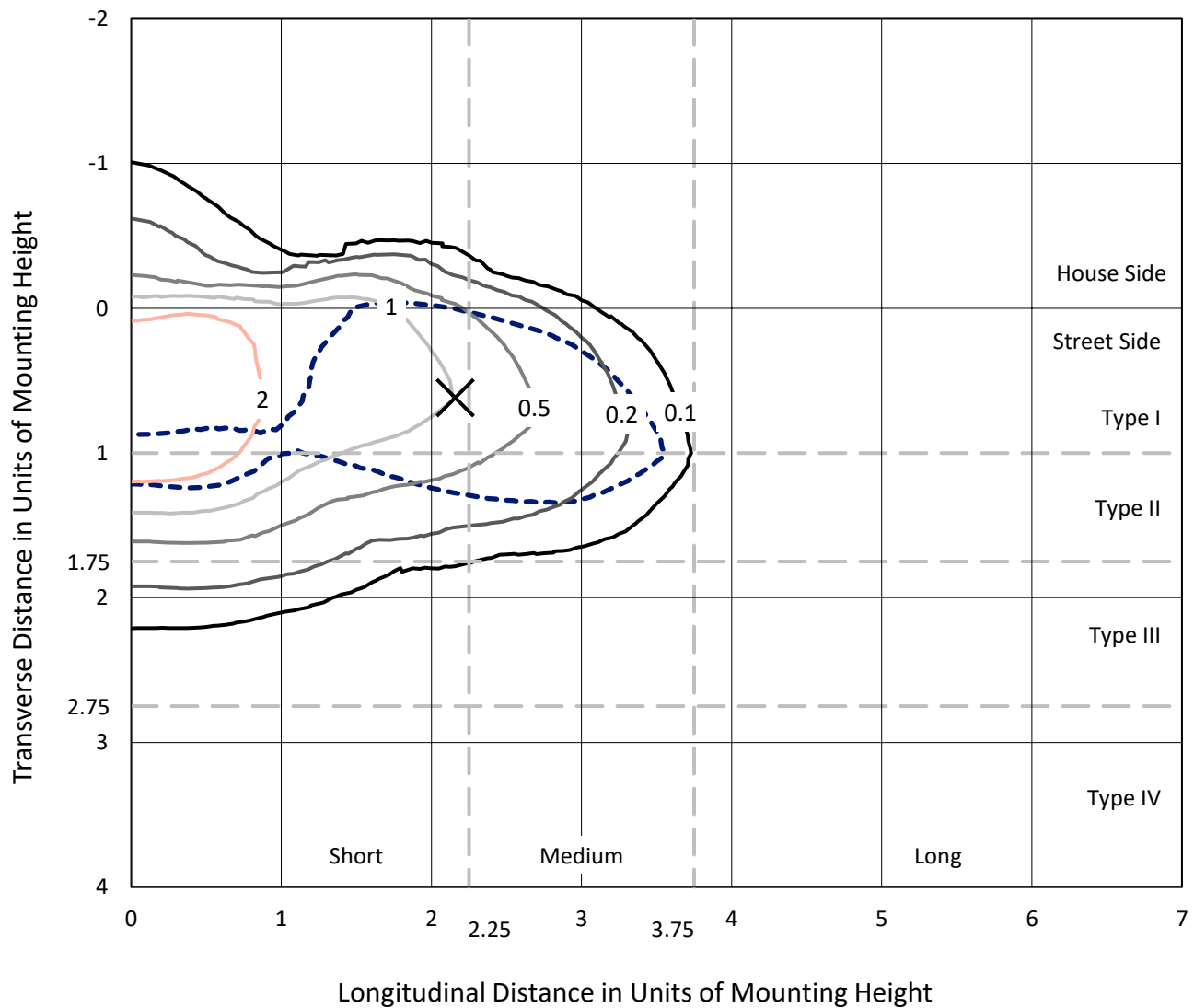


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Iso-Footcandle Lines of Horizontal Illumination

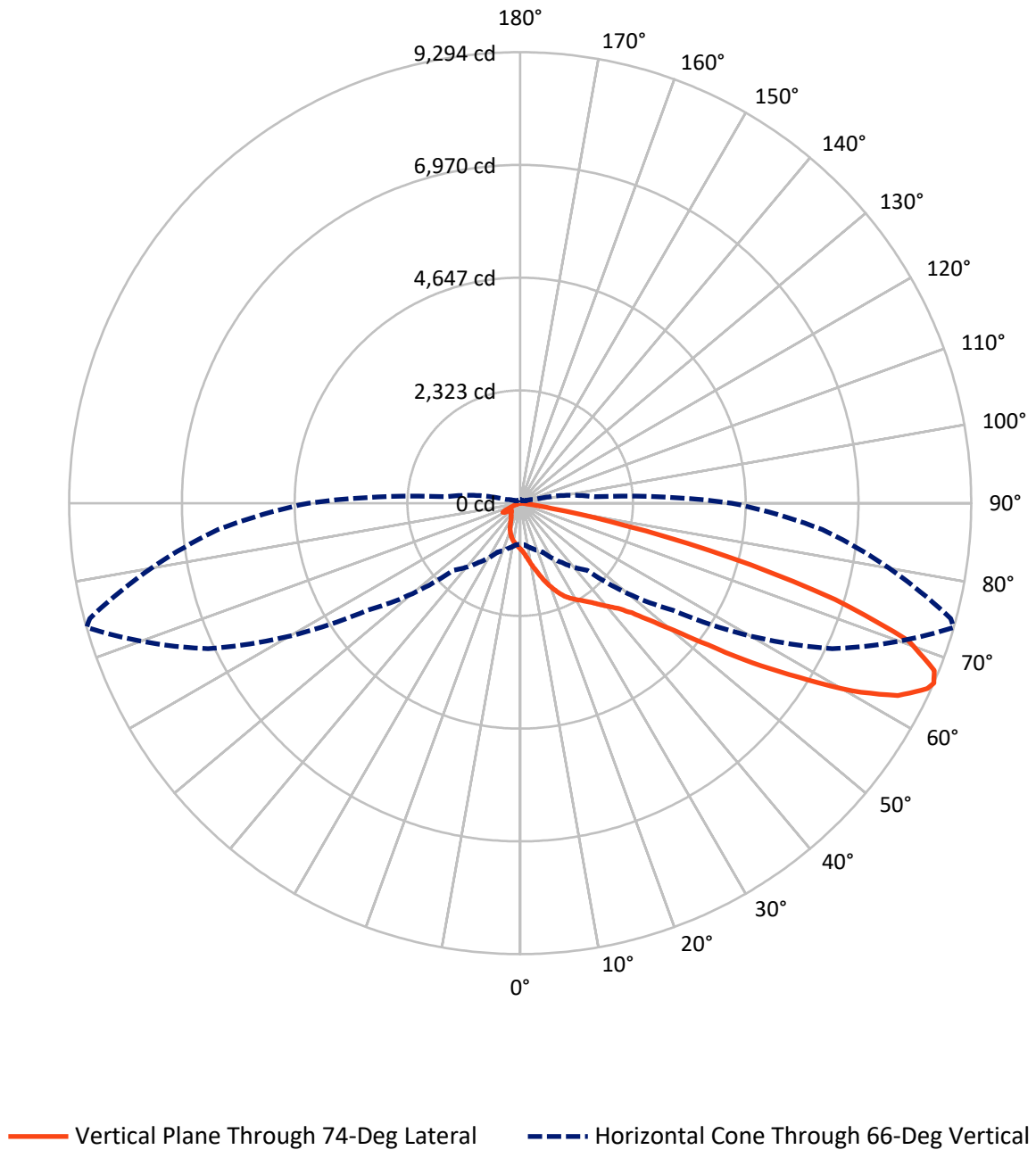
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	849.1	0.0	849.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	7812.9	0.0	7812.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	8662.0	0.0	8662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	1.1
10°-20°	295.9	3.4
20°-30°	564.6	6.5
30°-40°	989.7	11.4
40°-50°	1697.0	19.6
50°-60°	2207.1	25.5
60°-70°	1998.0	23.1
70°-80°	770.9	8.9
80°-90°	46.4	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°	8662.0	100.0
0°-180°	8662.0	100.0

Coefficient of Utilization



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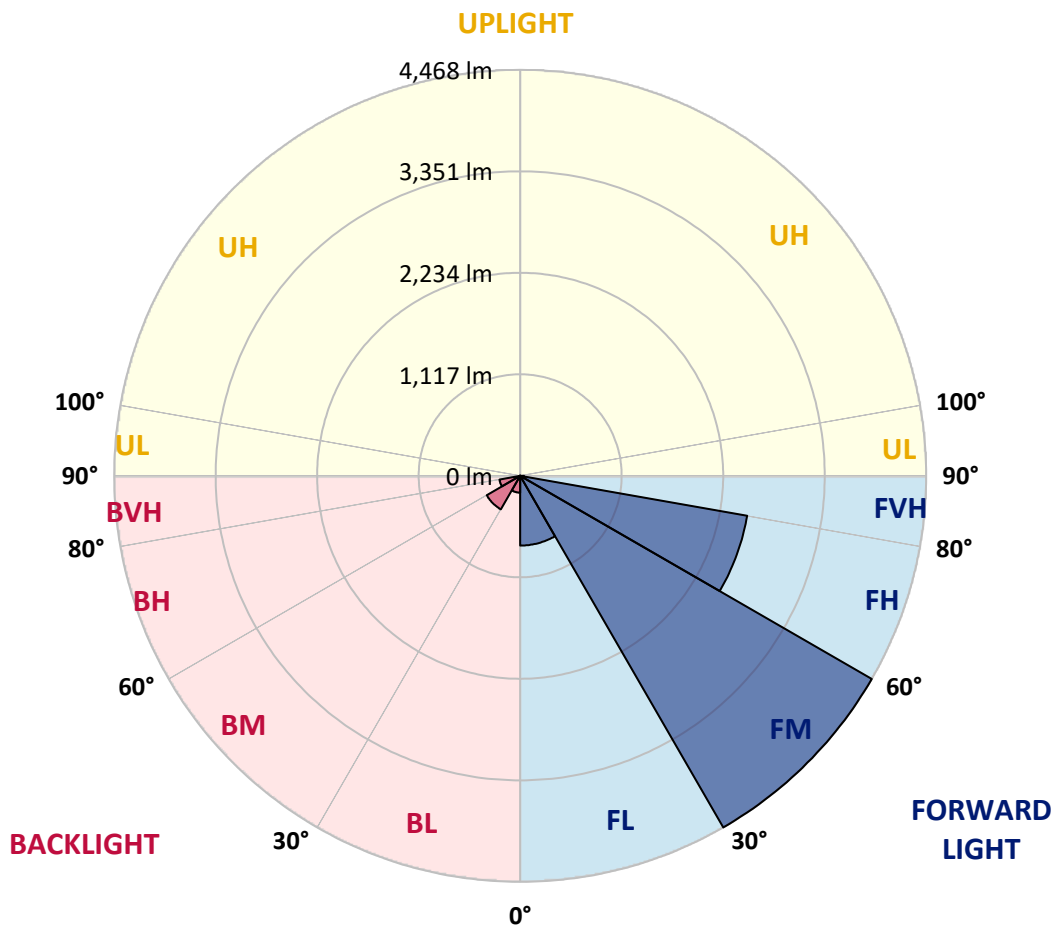
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	767.6	8.9			
FM	(30°-60°)	4468.3	51.6			
FH	(60°-80°)	2536.8	29.3			G2/5000
FVH	(80°-90°)	40.2	0.5			G1/100
BL	(0°-30°)	185.2	2.1	B1/500		
BM	(30°-60°)	425.6	4.9	B1/1000		
BH	(60°-80°)	232.1	2.7	B1/500		G1/500
BVH	(80°-90°)	6.2	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°	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5
2.5°	1135.3	1125.9	1108.8	1107.3	1093.3	1076.2	1046.6	1015.5	993.7	990.6	964.2
5°	1359.2	1354.5	1337.4	1326.5	1300.1	1259.7	1191.2	1122.8	1065.3	1059.1	1000.0
7.5°	1418.3	1421.4	1424.5	1435.4	1426.1	1407.4	1356.1	1259.7	1169.5	1155.5	1052.8
10°	1427.6	1424.5	1424.5	1438.5	1465.0	1491.4	1485.2	1402.7	1286.1	1269.0	1125.9
12.5°	1528.7	1533.4	1522.5	1516.3	1511.6	1525.6	1572.3	1536.5	1409.0	1395.0	1214.6
15°	1659.3	1657.8	1642.2	1642.2	1628.2	1604.9	1634.5	1660.9	1556.7	1539.6	1315.7
17.5°	1754.2	1760.4	1758.9	1768.2	1763.5	1732.4	1716.9	1771.3	1709.1	1687.3	1430.7
20°	1830.4	1847.5	1853.7	1883.3	1897.3	1875.5	1835.1	1869.3	1855.3	1835.1	1547.4
22.5°	1911.3	1925.3	1936.2	1987.5	2026.4	2021.7	1970.4	1962.6	1996.8	1978.2	1662.5
25°	1992.1	1998.4	2031.0	2093.2	2155.4	2171.0	2118.1	2057.5	2124.3	2107.2	1765.1
27.5°	2080.8	2083.9	2122.8	2199.0	2286.1	2318.7	2276.7	2164.8	2222.3	2222.3	1858.4
30°	2242.5	2273.6	2289.2	2357.6	2433.8	2478.9	2429.1	2278.3	2309.4	2323.4	1956.4
32.5°	2590.9	2595.5	2590.9	2620.4	2636.0	2662.4	2604.9	2405.8	2398.0	2413.6	2052.8
35°	3122.7	3104.1	3054.3	3010.8	2920.6	2870.8	2796.2	2569.1	2506.9	2528.7	2147.7
37.5°	3768.1	3741.7	3628.2	3494.4	3301.6	3102.5	3009.2	2768.2	2645.3	2673.3	2250.3
40°	4384.0	4366.9	4231.6	4066.7	3737.0	3396.5	3198.9	2936.1	2799.3	2810.2	2354.5
42.5°	4891.0	4887.8	4774.3	4601.7	4178.7	3713.7	3422.9	3101.0	2961.0	2978.1	2463.4
45°	5275.1	5245.5	5161.5	5037.1	4606.4	4043.4	3693.5	3351.4	3220.7	3240.9	2626.7
47.5°	5275.1	5279.7	5334.2	5321.7	4904.9	4352.9	3989.0	3667.0	3604.8	3623.5	2895.7
50°	4845.9	4889.4	5132.0	5335.7	5060.5	4593.9	4307.8	4062.1	4125.8	4153.8	3365.3
52.5°	3996.7	4069.8	4491.3	4956.3	4945.4	4715.2	4637.5	4564.4	4850.5	4900.3	4058.9
55°	3037.2	3085.4	3634.4	4245.6	4444.6	4615.7	4925.2	5202.0	5810.0	5799.2	4763.4
57.5°	2269.0	2314.1	2786.8	3464.9	3727.7	4184.9	5072.9	5931.3	6761.8	6803.8	5424.4
60°	1668.7	1702.9	2105.7	2662.4	3041.9	3525.5	5013.8	6649.8	7858.2	7810.0	6007.6
62.5°	1234.8	1253.5	1544.3	1906.6	2410.5	2872.4	4642.1	7141.3	8733.7	8635.8	6332.6
65°	954.9	961.1	1111.9	1304.8	1752.7	2233.2	4088.5	7215.9	9217.4	9113.2	6326.4
66°	850.7	855.3	965.7	1115.0	1491.4	1954.8	3845.9	7096.2	9293.6	9183.2	6248.6
67.5°	713.8	710.7	776.0	874.0	1119.7	1508.5	3415.1	6746.2	9203.4	9147.4	5999.8
70°	528.8	530.3	563.0	586.3	654.7	835.1	2466.5	5852.0	8481.8	8478.7	5317.1
72.5°	391.9	396.6	421.4	426.1	409.0	452.5	1421.4	4654.6	6785.1	6786.7	3975.0
75°	293.9	301.7	309.5	312.6	297.0	286.1	642.3	3132.1	4463.3	4430.6	2250.3
77.5°	223.9	227.1	233.3	228.6	225.5	197.5	267.5	1527.2	2203.6	2007.7	729.4
80°	163.3	163.3	169.5	163.3	161.7	141.5	146.2	489.9	646.9	538.1	157.1
82.5°	102.6	101.1	105.8	104.2	101.1	90.2	85.5	136.9	149.3	133.7	76.2
85°	57.5	56.0	54.4	52.9	48.2	40.4	46.7	51.3	68.4	70.0	54.4
87.5°	20.2	20.2	18.7	17.1	14.0	14.0	17.1	17.1	24.9	24.9	28.0
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°	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5	945.5
2.5°	951.8	934.6	909.8	877.1	853.8	830.5	805.6	791.6	771.4	766.7	772.9
5°	968.9	937.8	875.6	807.1	748.0	695.2	645.4	615.8	586.3	575.4	580.1
7.5°	1004.6	951.8	846.0	735.6	637.6	558.3	499.2	465.0	438.6	427.7	430.8
10°	1057.5	976.6	818.0	654.7	528.8	444.8	395.0	373.2	357.7	351.5	353.0
12.5°	1121.3	1012.4	782.2	573.9	435.4	362.4	339.0	334.4	331.2	328.1	329.7
15°	1192.8	1043.5	740.3	494.5	362.4	321.9	314.1	312.6	311.0	311.0	311.0
17.5°	1267.4	1071.5	693.6	419.9	315.7	297.0	292.4	292.4	292.4	293.9	293.9
20°	1337.4	1093.3	639.2	353.0	289.3	273.7	270.6	270.6	272.2	273.7	273.7
22.5°	1405.9	1102.6	575.4	306.4	267.5	253.5	248.8	248.8	248.8	250.4	250.4
25°	1465.0	1102.6	511.6	276.8	248.8	234.8	228.6	227.1	228.6	228.6	228.6
27.5°	1514.7	1097.9	449.4	256.6	230.2	216.2	209.9	208.4	211.5	213.1	213.1
30°	1567.6	1091.7	399.7	237.9	214.6	200.6	194.4	194.4	199.1	205.3	205.3
32.5°	1618.9	1096.4	360.8	222.4	199.1	188.2	182.0	183.5	192.8	202.2	202.2
35°	1673.3	1105.7	337.5	211.5	188.2	177.3	172.6	177.3	186.6	195.9	195.9
37.5°	1727.8	1116.6	323.5	202.2	178.8	168.0	164.8	171.1	182.0	191.3	192.8
40°	1785.3	1125.9	307.9	192.8	172.6	160.2	158.6	164.8	178.8	188.2	189.7
42.5°	1856.9	1144.6	289.3	185.1	166.4	150.8	152.4	157.1	171.1	185.1	186.6
45°	1996.8	1203.7	270.6	177.3	158.6	146.2	143.1	146.2	161.7	177.3	180.4
47.5°	2259.6	1337.4	250.4	169.5	150.8	143.1	130.6	133.7	147.7	164.8	166.4
50°	2763.5	1622.0	239.5	161.7	144.6	132.2	118.2	118.2	129.1	144.6	144.6
52.5°	3548.9	2132.1	245.7	155.5	136.9	121.3	107.3	105.8	112.0	122.9	122.9
55°	4396.4	2692.0	269.0	149.3	127.5	115.1	99.5	91.8	96.4	102.6	102.6
57.5°	5068.2	2973.4	332.8	146.2	116.6	110.4	90.2	79.3	84.0	90.2	90.2
60°	5363.7	2808.6	404.3	149.3	108.9	102.6	80.9	70.0	77.8	84.0	85.5
62.5°	5124.2	2312.5	433.9	141.5	98.0	91.8	79.3	65.3	74.6	79.3	80.9
65°	4606.4	1757.3	339.0	122.9	90.2	79.3	71.5	62.2	70.0	74.6	74.6
66°	4360.6	1531.8	289.3	113.5	87.1	74.6	68.4	62.2	68.4	71.5	73.1
67.5°	3979.6	1208.4	214.6	99.5	80.9	68.4	63.8	59.1	65.3	68.4	68.4
70°	3111.9	720.0	129.1	77.8	70.0	60.7	57.5	54.4	59.1	60.7	60.7
72.5°	1948.6	342.1	82.4	57.5	59.1	57.5	48.2	51.3	52.9	54.4	54.4
75°	944.0	135.3	56.0	42.0	48.2	54.4	38.9	45.1	46.7	49.8	48.2
77.5°	262.8	65.3	35.8	31.1	42.0	42.0	29.5	35.8	42.0	52.9	48.2
80°	76.2	42.0	23.3	23.3	29.5	29.5	20.2	24.9	28.0	31.1	32.7
82.5°	52.9	28.0	15.6	17.1	17.1	18.7	12.4	12.4	15.6	15.6	17.1
85°	42.0	12.4	9.3	10.9	7.8	9.3	6.2	6.2	7.8	6.2	6.2
87.5°	17.1	6.2	6.2	6.2	4.7	4.7	3.1	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)