

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: P1210408

Luminaire Tested: **ARCH3-110-750-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210408
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: ARCH3-110-750-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 880mA 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: 12428 lumens
Efficiency: N/A
Efficacy: 111.1 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): 111.9
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



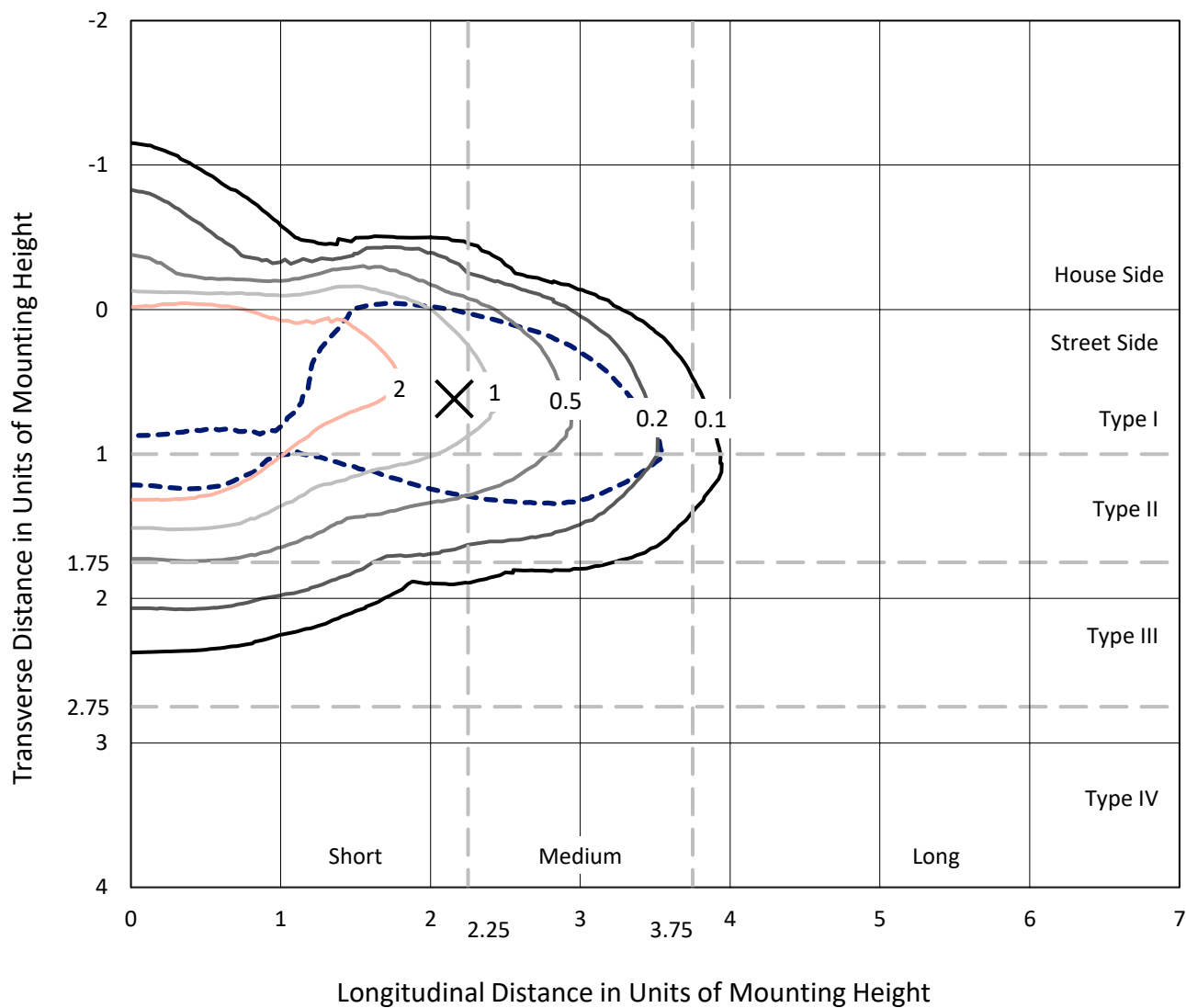
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

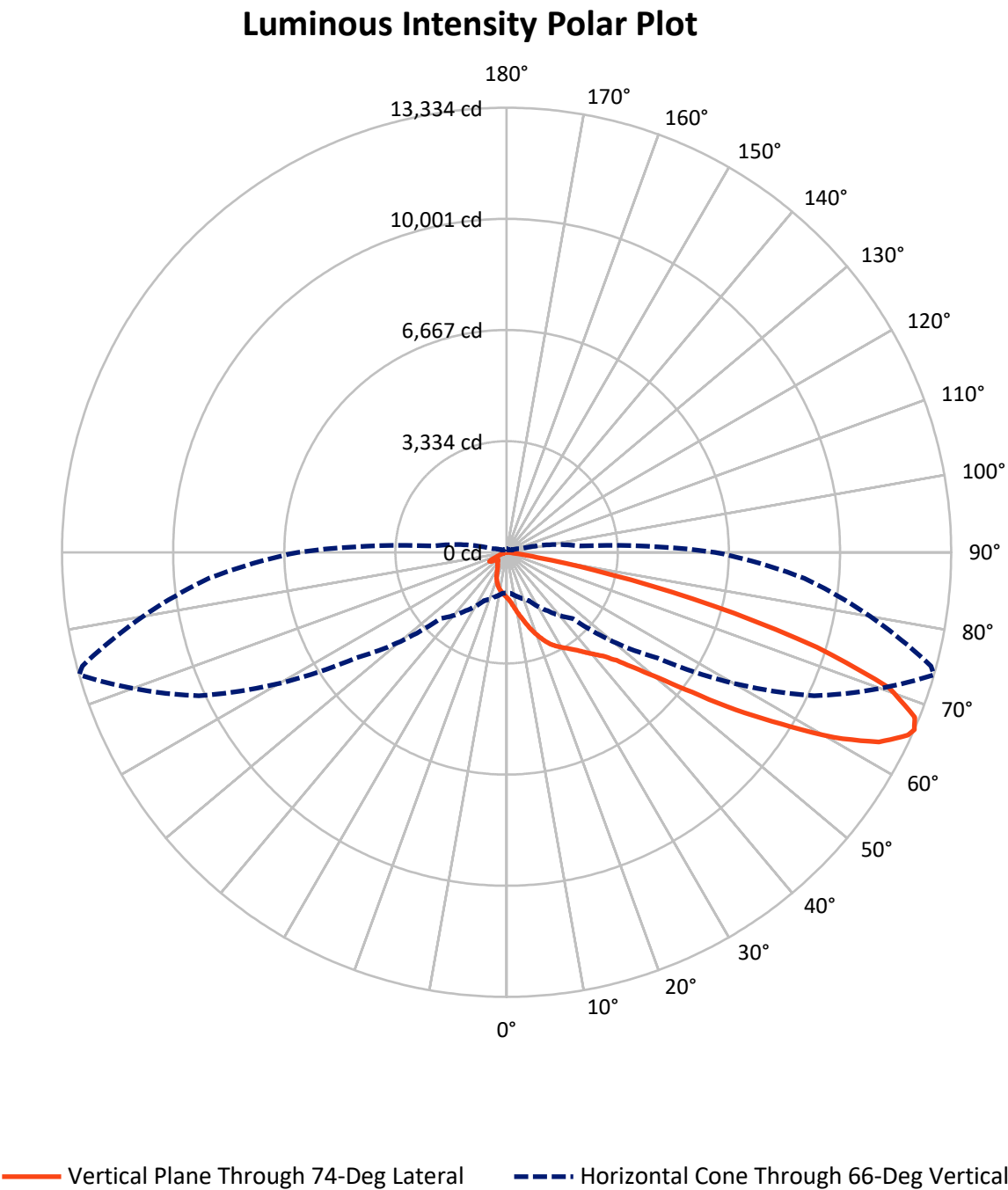
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc

Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1218.3	0.0	1218.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	11209.7	0.0	11209.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	12428.0	0.0	12428.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	1.1
10°-20°	424.5	3.4
20°-30°	810.1	6.5
30°-40°	1420.0	11.4
40°-50°	2434.9	19.6
50°-60°	3166.7	25.5
60°-70°	2866.7	23.1
70°-80°	1106.1	8.9
80°-90°	66.6	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°	12428.0	100.0
0°-180°	12428.0	100.0

Coefficient of Utilization



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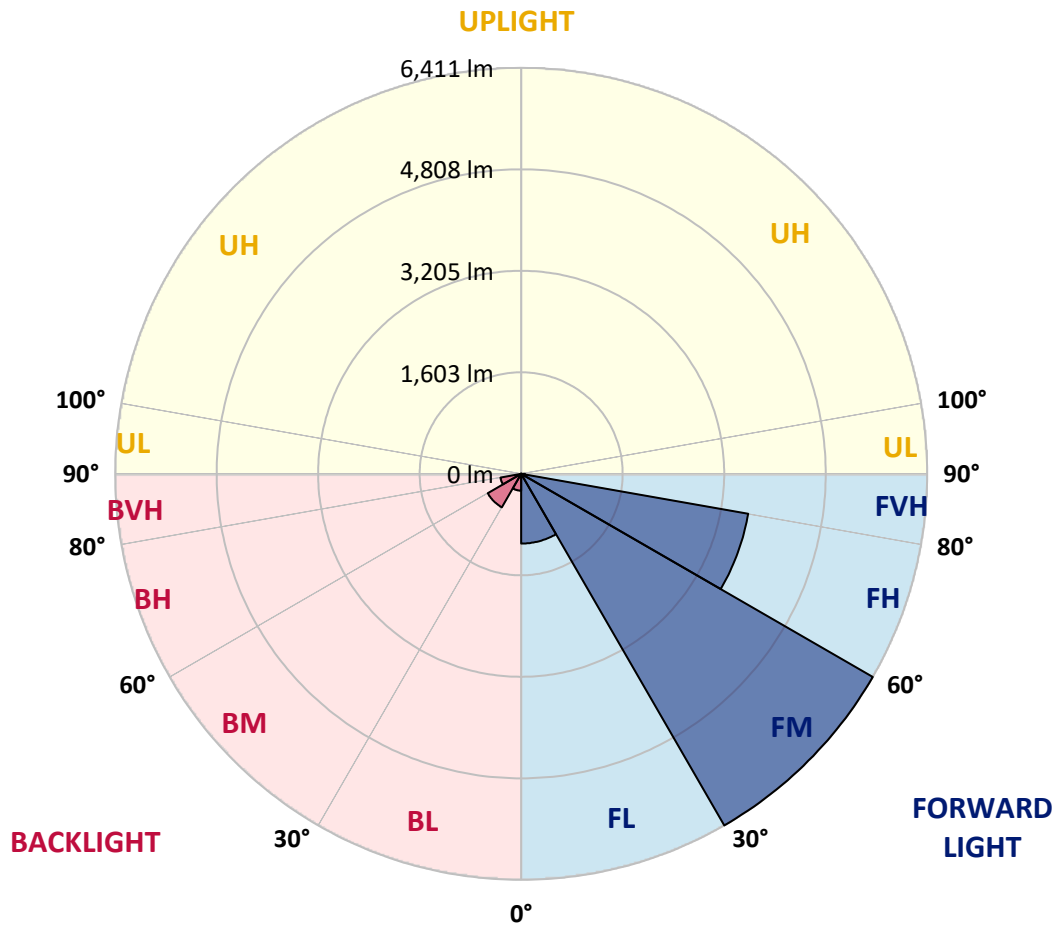
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1101.3	8.9			
FM	(30°-60°)	6411.0	51.6			
FH	(60°-80°)	3639.7	29.3			G2/5000
FVH	(80°-90°)	57.6	0.5			G1/100
BL	(0°-30°)	265.8	2.1	B1/500		
BM	(30°-60°)	610.6	4.9	B1/1000		
BH	(60°-80°)	333.1	2.7	B1/500		G1/500
BVH	(80°-90°)	8.9	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°	1356.6	1356.6	1356.6	1356.6	1356.6	1356.6	1356.6	1356.6	1356.6	1356.6	1356.6
2.5°	1628.8	1615.5	1590.9	1588.7	1568.6	1544.1	1501.7	1457.0	1425.8	1421.3	1383.4
5°	1950.1	1943.5	1918.9	1903.3	1865.4	1807.3	1709.2	1611.0	1528.4	1519.5	1434.7
7.5°	2034.9	2039.4	2043.9	2059.5	2046.1	2019.3	1945.7	1807.3	1677.9	1657.8	1510.6
10°	2048.3	2043.9	2043.9	2063.9	2101.9	2139.8	2130.9	2012.6	1845.3	1820.7	1615.5
12.5°	2193.4	2200.1	2184.4	2175.5	2168.8	2188.9	2255.8	2204.5	2021.5	2001.5	1742.6
15°	2380.8	2378.6	2356.2	2356.2	2336.2	2302.7	2345.1	2383.0	2233.5	2209.0	1887.7
17.5°	2516.9	2525.8	2523.6	2537.0	2530.3	2485.7	2463.3	2541.4	2452.2	2420.9	2052.8
20°	2626.2	2650.8	2659.7	2702.1	2722.2	2690.9	2632.9	2682.0	2661.9	2632.9	2220.1
22.5°	2742.3	2762.3	2778.0	2851.6	2907.4	2900.7	2827.0	2815.9	2865.0	2838.2	2385.2
25°	2858.3	2867.2	2914.1	3003.3	3092.6	3114.9	3039.0	2952.0	3047.9	3023.4	2532.5
27.5°	2985.5	2989.9	3045.7	3155.0	3280.0	3326.9	3266.6	3106.0	3188.5	3188.5	2666.4
30°	3217.5	3262.1	3284.5	3382.6	3492.0	3556.7	3485.3	3268.8	3313.5	3333.5	2807.0
32.5°	3717.3	3724.0	3717.3	3759.7	3782.0	3820.0	3737.4	3451.8	3440.6	3463.0	2945.3
35°	4480.4	4453.7	4382.3	4319.8	4190.4	4119.0	4011.9	3686.1	3596.8	3628.1	3081.4
37.5°	5406.4	5368.5	5205.6	5013.7	4737.0	4451.4	4317.5	3971.7	3795.4	3835.6	3228.7
40°	6290.0	6265.5	6071.3	5834.8	5361.8	4873.1	4589.8	4212.7	4016.3	4031.9	3378.2
42.5°	7017.4	7012.9	6850.1	6602.4	5995.5	5328.3	4911.1	4449.2	4248.4	4272.9	3534.4
45°	7568.5	7526.1	7405.6	7227.1	6609.1	5801.4	5299.3	4808.4	4621.0	4650.0	3768.6
47.5°	7568.5	7575.2	7653.3	7635.5	7037.5	6245.4	5723.3	5261.4	5172.1	5198.9	4154.7
50°	6952.7	7015.2	7363.3	7655.6	7260.6	6591.2	6180.7	5828.1	5919.6	5959.8	4828.5
52.5°	5734.4	5839.3	6444.0	7111.1	7095.5	6765.3	6653.7	6548.8	6959.4	7030.8	5823.7
55°	4357.7	4426.9	5214.5	6091.4	6377.0	6622.5	7066.5	7463.7	8336.1	8320.5	6834.4
57.5°	3255.5	3320.2	3998.5	4971.3	5348.4	6004.4	7278.5	8510.1	9701.6	9761.9	7782.7
60°	2394.2	2443.3	3021.2	3820.0	4364.4	5058.3	7193.7	9541.0	11274.7	11205.5	8619.5
62.5°	1771.6	1798.4	2215.7	2735.6	3458.5	4121.2	6660.4	10246.1	12530.9	12390.3	9085.8
65°	1370.0	1378.9	1595.4	1872.1	2514.7	3204.1	5866.1	10353.2	13224.8	13075.4	9076.9
66°	1220.5	1227.2	1385.6	1599.8	2139.8	2804.7	5518.0	10181.4	13334.2	13175.8	8965.3
67.5°	1024.2	1019.7	1113.4	1254.0	1606.5	2164.4	4899.9	9679.3	13204.8	13124.4	8608.3
70°	758.6	760.9	807.7	841.2	939.4	1198.2	3538.8	8396.3	12169.4	12165.0	7628.8
72.5°	562.3	569.0	604.7	611.4	586.8	649.3	2039.4	6678.2	9735.1	9737.3	5703.2
75°	421.7	432.9	444.0	448.5	426.2	410.6	921.5	4493.8	6403.8	6356.9	3228.7
77.5°	321.3	325.8	334.7	328.0	323.5	283.4	383.8	2191.1	3161.7	2880.6	1046.5
80°	234.3	234.3	243.2	234.3	232.1	203.0	209.7	702.9	928.2	772.0	225.4
82.5°	147.3	145.0	151.7	149.5	145.0	129.4	122.7	196.4	214.2	191.9	109.3
85°	82.6	80.3	78.1	75.9	69.2	58.0	66.9	73.6	98.2	100.4	78.1
87.5°	29.0	29.0	26.8	24.5	20.1	20.1	24.5	24.5	35.7	35.7	40.2
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°	1356.6	1356.6	1356.6	1356.6	1356.6	1356.6	1356.6	1356.6	1356.6	1356.6	1356.6
2.5°	1365.5	1341.0	1305.3	1258.4	1225.0	1191.5	1155.8	1135.7	1106.7	1100.0	1109.0
5°	1390.1	1345.5	1256.2	1158.0	1073.2	997.4	926.0	883.6	841.2	825.6	832.3
7.5°	1441.4	1365.5	1213.8	1055.4	914.8	801.0	716.2	667.2	629.2	613.6	618.1
10°	1517.3	1401.2	1173.7	939.4	758.6	638.1	566.7	535.5	513.2	504.3	506.5
12.5°	1608.8	1452.6	1122.3	823.3	624.8	519.9	486.4	479.7	475.3	470.8	473.0
15°	1711.4	1497.2	1062.1	709.5	519.9	461.9	450.7	448.5	446.3	446.3	446.3
17.5°	1818.5	1537.4	995.2	602.4	453.0	426.2	419.5	419.5	419.5	421.7	421.7
20°	1918.9	1568.6	917.1	506.5	415.0	392.7	388.2	388.2	390.5	392.7	392.7
22.5°	2017.1	1582.0	825.6	439.6	383.8	363.7	357.0	357.0	357.0	359.2	359.2
25°	2101.9	1582.0	734.1	397.2	357.0	336.9	328.0	325.8	328.0	328.0	328.0
27.5°	2173.3	1575.3	644.8	368.2	330.2	310.1	301.2	299.0	303.5	305.7	305.7
30°	2249.1	1566.4	573.4	341.4	307.9	287.8	278.9	278.9	285.6	294.5	294.5
32.5°	2322.8	1573.1	517.7	319.1	285.6	270.0	261.1	263.3	276.7	290.1	290.1
35°	2400.9	1586.4	484.2	303.5	270.0	254.4	247.7	254.4	267.8	281.1	281.1
37.5°	2479.0	1602.1	464.1	290.1	256.6	241.0	236.5	245.4	261.1	274.4	276.7
40°	2561.5	1615.5	441.8	276.7	247.7	229.8	227.6	236.5	256.6	270.0	272.2
42.5°	2664.2	1642.2	415.0	265.5	238.7	216.4	218.7	225.4	245.4	265.5	267.8
45°	2865.0	1727.0	388.2	254.4	227.6	209.7	205.3	209.7	232.1	254.4	258.8
47.5°	3242.1	1918.9	359.2	243.2	216.4	205.3	187.4	191.9	212.0	236.5	238.7
50°	3965.0	2327.2	343.6	232.1	207.5	189.7	169.6	169.6	185.2	207.5	207.5
52.5°	5091.8	3059.1	352.5	223.1	196.4	174.0	154.0	151.7	160.7	176.3	176.3
55°	6307.9	3862.4	386.0	214.2	183.0	165.1	142.8	131.6	138.3	147.3	147.3
57.5°	7271.8	4266.2	477.5	209.7	167.3	158.4	129.4	113.8	120.5	129.4	129.4
60°	7695.7	4029.7	580.1	214.2	156.2	147.3	116.0	100.4	111.6	120.5	122.7
62.5°	7352.1	3317.9	622.5	203.0	140.6	131.6	113.8	93.7	107.1	113.8	116.0
65°	6609.1	2521.4	486.4	176.3	129.4	113.8	102.6	89.3	100.4	107.1	107.1
66°	6256.5	2197.8	415.0	162.9	125.0	107.1	98.2	89.3	98.2	102.6	104.9
67.5°	5709.9	1733.7	307.9	142.8	116.0	98.2	91.5	84.8	93.7	98.2	98.2
70°	4464.8	1033.1	185.2	111.6	100.4	87.0	82.6	78.1	84.8	87.0	87.0
72.5°	2795.8	490.9	118.3	82.6	84.8	82.6	69.2	73.6	75.9	78.1	78.1
75°	1354.4	194.1	80.3	60.2	69.2	78.1	55.8	64.7	66.9	71.4	69.2
77.5°	377.1	93.7	51.3	44.6	60.2	60.2	42.4	51.3	60.2	75.9	69.2
80°	109.3	60.2	33.5	33.5	42.4	42.4	29.0	35.7	40.2	44.6	46.9
82.5°	75.9	40.2	22.3	24.5	24.5	26.8	17.9	17.9	22.3	22.3	24.5
85°	60.2	17.9	13.4	15.6	11.2	13.4	8.9	8.9	11.2	8.9	8.9
87.5°	24.5	8.9	8.9	8.9	6.7	6.7	4.5	2.2	2.2	2.2	2.2
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)