

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: P1210588

Luminaire Tested: **ARCH3-170-730-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210588
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: ARCH3-170-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1310mA 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: 16082 lumens
Efficiency: N/A
Efficacy: 94.3 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): 170.6
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



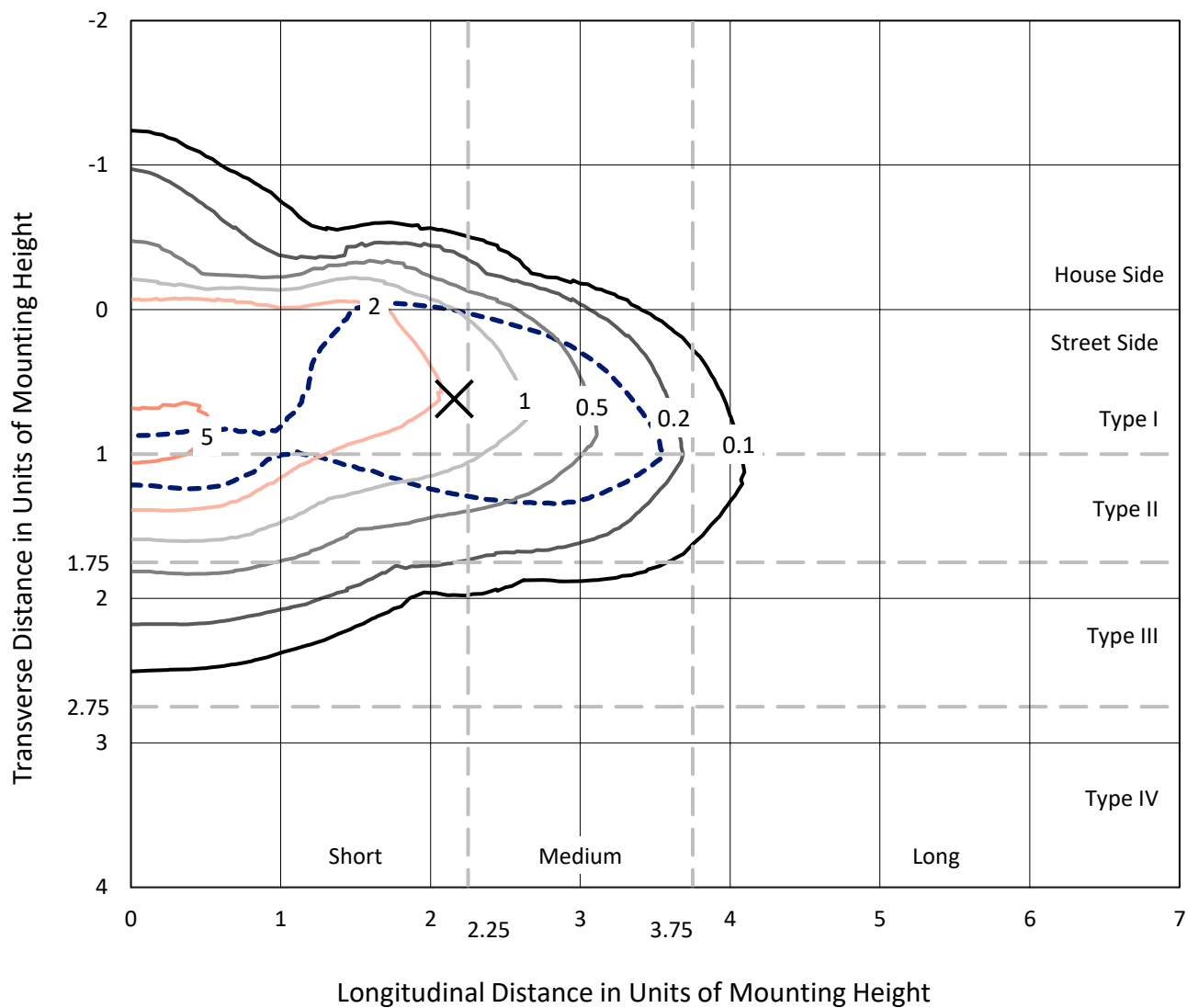
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

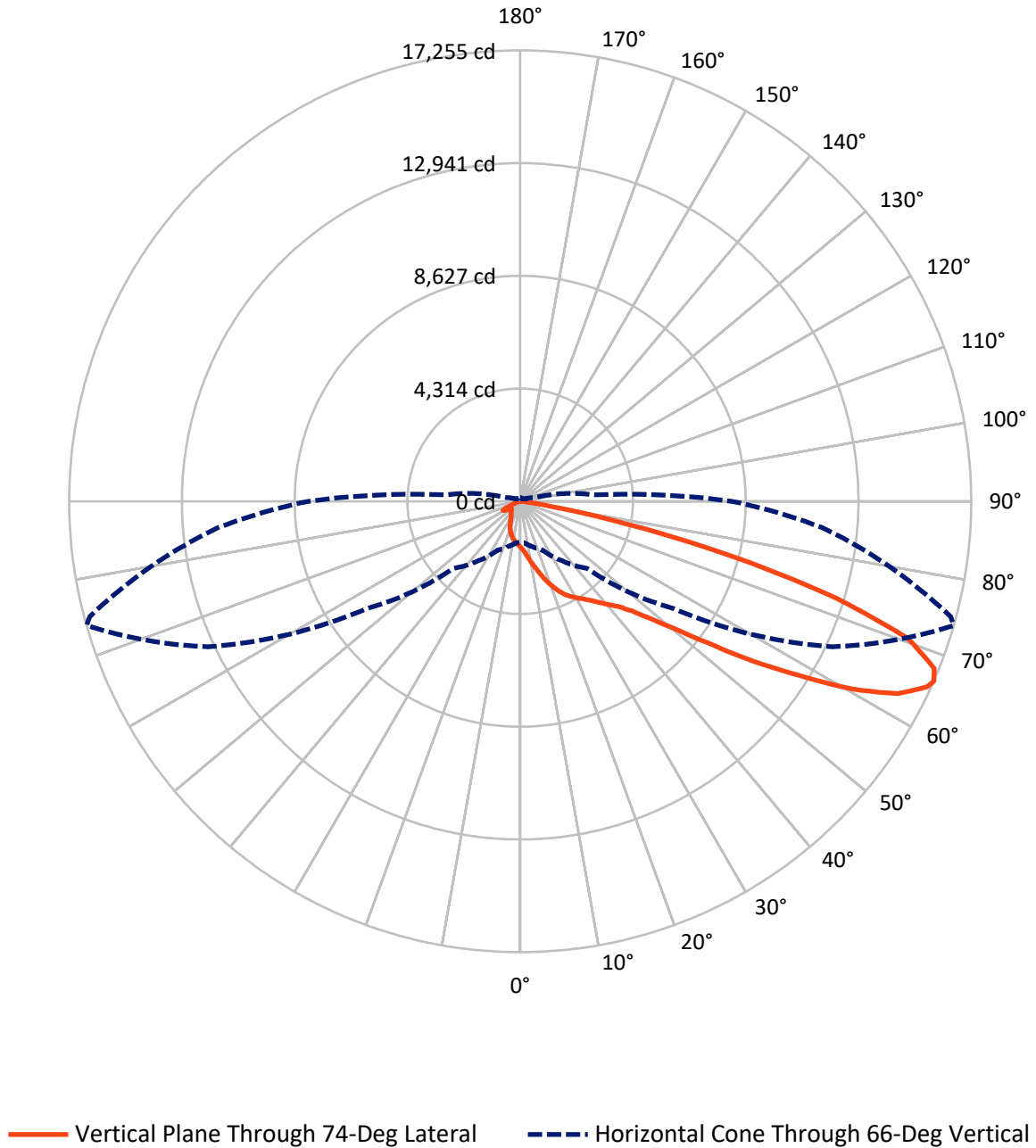
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	1576.5	0.0	1576.5
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	14505.5	0.0	14505.5
	% Fixture	90.2	0.0	90.2
Total	Lumens	16082.0	0.0	16082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	1.1
10°-20°	549.3	3.4
20°-30°	1048.3	6.5
30°-40°	1837.5	11.4
40°-50°	3150.8	19.6
50°-60°	4097.8	25.5
60°-70°	3709.5	23.1
70°-80°	1431.3	8.9
80°-90°	86.1	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°	16082.0	100.0
0°-180°	16082.0	100.0

Coefficient of Utilization



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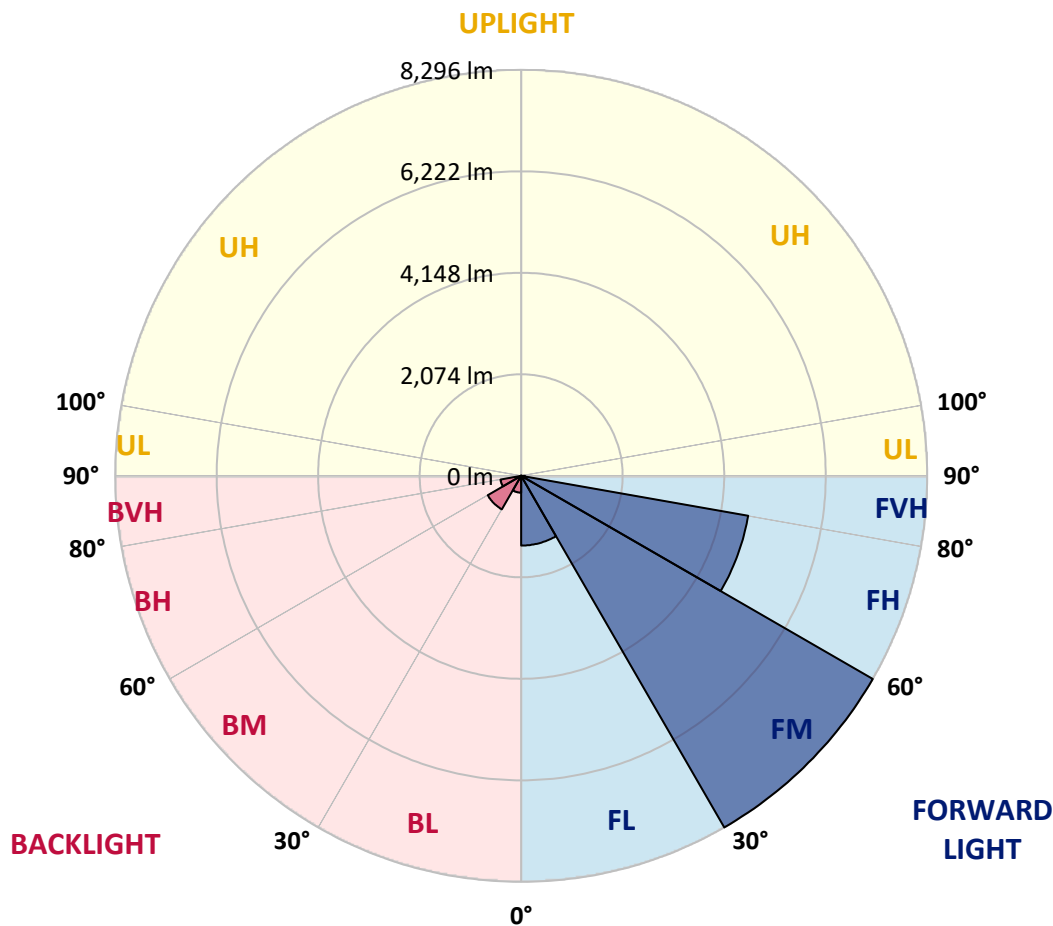
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1425.1	8.9			
FM	(30°-60°)	8295.9	51.6			
FH	(60°-80°)	4709.9	29.3			G2/5000
FVH	(80°-90°)	74.6	0.5			G1/100
BL	(0°-30°)	343.9	2.1	B1/500		
BM	(30°-60°)	790.1	4.9	B1/1000		
BH	(60°-80°)	431.0	2.7	B1/500		G1/500
BVH	(80°-90°)	11.5	0.1			G1/100
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°	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5
2.5°	2107.7	2090.4	2058.7	2055.8	2029.8	1998.0	1943.2	1885.4	1845.0	1839.2	1790.1
5°	2523.5	2514.9	2483.1	2462.9	2413.8	2338.7	2211.7	2084.6	1977.8	1966.3	1856.5
7.5°	2633.2	2639.0	2644.8	2665.0	2647.7	2613.0	2517.7	2338.7	2171.3	2145.3	1954.7
10°	2650.6	2644.8	2644.8	2670.8	2719.9	2768.9	2757.4	2604.4	2387.8	2356.1	2090.4
12.5°	2838.2	2846.9	2826.7	2815.1	2806.5	2832.5	2919.1	2852.7	2615.9	2589.9	2255.0
15°	3080.8	3077.9	3049.0	3049.0	3023.0	2979.7	3034.6	3083.7	2890.2	2858.4	2442.7
17.5°	3256.9	3268.4	3265.6	3282.9	3274.2	3216.5	3187.6	3288.7	3173.2	3132.7	2656.3
20°	3398.4	3430.1	3441.7	3496.5	3522.5	3482.1	3407.0	3470.6	3444.6	3407.0	2872.9
22.5°	3548.5	3574.5	3594.7	3690.0	3762.2	3753.5	3658.2	3643.8	3707.3	3672.7	3086.5
25°	3698.7	3710.2	3770.8	3886.3	4001.8	4030.7	3932.5	3819.9	3944.1	3912.3	3277.1
27.5°	3863.2	3869.0	3941.2	4082.7	4244.4	4305.0	4227.0	4019.1	4126.0	4126.0	3450.3
30°	4163.5	4221.3	4250.1	4377.2	4518.7	4602.4	4510.0	4229.9	4287.7	4313.7	3632.2
32.5°	4810.3	4818.9	4810.3	4865.1	4894.0	4943.1	4836.3	4466.7	4452.2	4481.1	3811.3
35°	5797.7	5763.1	5670.7	5589.8	5422.4	5330.0	5191.4	4769.8	4654.4	4694.8	3987.4
37.5°	6996.0	6946.9	6736.1	6487.8	6129.8	5760.2	5587.0	5139.4	4911.3	4963.3	4177.9
40°	8139.3	8107.6	7856.4	7550.3	6938.2	6305.9	5939.2	5451.3	5197.2	5217.4	4371.4
42.5°	9080.6	9074.8	8864.1	8543.6	7758.2	6894.9	6355.0	5757.3	5497.5	5529.2	4573.5
45°	9793.8	9738.9	9583.0	9352.0	8552.2	7507.0	6857.4	6222.2	5979.6	6017.2	4876.7
47.5°	9793.8	9802.4	9903.5	9880.4	9106.6	8081.6	7406.0	6808.3	6692.8	6727.5	5376.2
50°	8996.9	9077.7	9528.1	9906.4	9395.3	8529.1	7997.9	7541.7	7660.1	7712.0	6248.2
52.5°	7420.4	7556.1	8338.6	9201.9	9181.7	8754.3	8610.0	8474.3	9005.5	9097.9	7535.9
55°	5638.9	5728.4	6747.7	7882.4	8252.0	8569.6	9144.1	9658.1	10787.0	10766.8	8843.9
57.5°	4212.6	4296.3	5174.1	6432.9	6920.9	7769.8	9418.4	11012.2	12554.1	12632.0	10071.0
60°	3098.1	3161.6	3909.4	4943.1	5647.6	6545.5	9308.7	12346.2	14589.6	14500.1	11153.7
62.5°	2292.5	2327.2	2867.1	3539.9	4475.3	5332.9	8618.6	13258.6	16215.2	16033.3	11757.2
65°	1772.8	1784.4	2064.4	2422.5	3254.0	4146.2	7590.8	13397.2	17113.1	16919.7	11745.6
66°	1579.4	1588.0	1793.0	2070.2	2768.9	3629.4	7140.3	13174.8	17254.6	17049.6	11601.2
67.5°	1325.3	1319.5	1440.8	1622.7	2078.9	2800.7	6340.6	12525.2	17087.1	16983.2	11139.3
70°	981.7	984.6	1045.2	1088.5	1215.6	1550.5	4579.3	10865.0	15747.4	15741.7	9871.7
72.5°	727.6	736.3	782.5	791.1	759.4	840.2	2639.0	8641.7	12597.4	12600.3	7380.0
75°	545.7	560.1	574.6	580.4	551.5	531.3	1192.5	5815.1	8286.6	8226.0	4177.9
77.5°	415.8	421.5	433.1	424.4	418.7	366.7	496.6	2835.3	4091.3	3727.5	1354.2
80°	303.2	303.2	314.7	303.2	300.3	262.7	271.4	909.5	1201.1	999.0	291.6
82.5°	190.6	187.7	196.3	193.5	187.7	167.5	158.8	254.1	277.2	248.3	141.5
85°	106.8	103.9	101.1	98.2	89.5	75.1	86.6	95.3	127.0	129.9	101.1
87.5°	37.5	37.5	34.6	31.8	26.0	26.0	31.8	31.8	46.2	46.2	52.0
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°	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5	1755.5
2.5°	1767.0	1735.3	1689.1	1628.4	1585.1	1541.8	1495.6	1469.6	1432.1	1423.4	1435.0
5°	1798.8	1741.1	1625.6	1498.5	1388.8	1290.6	1198.2	1143.4	1088.5	1068.3	1077.0
7.5°	1865.2	1767.0	1570.7	1365.7	1183.8	1036.5	926.8	863.3	814.2	794.0	799.8
10°	1963.4	1813.2	1518.7	1215.6	981.7	825.8	733.4	693.0	664.1	652.5	655.4
12.5°	2081.8	1879.6	1452.3	1065.4	808.4	672.7	629.4	620.8	615.0	609.2	612.1
15°	2214.6	1937.4	1374.4	918.2	672.7	597.7	583.2	580.4	577.5	577.5	577.5
17.5°	2353.2	1989.4	1287.7	779.6	586.1	551.5	542.8	542.8	542.8	545.7	545.7
20°	2483.1	2029.8	1186.7	655.4	537.0	508.2	502.4	502.4	505.3	508.2	508.2
22.5°	2610.1	2047.1	1068.3	568.8	496.6	470.6	462.0	462.0	462.0	464.9	464.9
25°	2719.9	2047.1	949.9	513.9	462.0	436.0	424.4	421.5	424.4	424.4	424.4
27.5°	2812.2	2038.4	834.4	476.4	427.3	401.3	389.8	386.9	392.7	395.6	395.6
30°	2910.4	2026.9	742.0	441.8	398.4	372.5	360.9	360.9	369.6	381.1	381.1
32.5°	3005.7	2035.6	669.9	412.9	369.6	349.4	337.8	340.7	358.0	375.4	375.4
35°	3106.8	2052.9	626.5	392.7	349.4	329.2	320.5	329.2	346.5	363.8	363.8
37.5°	3207.8	2073.1	600.6	375.4	332.0	311.8	306.1	317.6	337.8	355.1	358.0
40°	3314.6	2090.4	571.7	358.0	320.5	297.4	294.5	306.1	332.0	349.4	352.3
42.5°	3447.5	2125.1	537.0	343.6	308.9	280.1	283.0	291.6	317.6	343.6	346.5
45°	3707.3	2234.8	502.4	329.2	294.5	271.4	265.6	271.4	300.3	329.2	334.9
47.5°	4195.3	2483.1	464.9	314.7	280.1	265.6	242.5	248.3	274.3	306.1	308.9
50°	5130.8	3011.5	444.6	300.3	268.5	245.4	219.4	219.4	239.6	268.5	268.5
52.5°	6588.9	3958.5	456.2	288.7	254.1	225.2	199.2	196.3	207.9	228.1	228.1
55°	8162.4	4997.9	499.5	277.2	236.8	213.7	184.8	170.4	179.0	190.6	190.6
57.5°	9409.8	5520.6	617.9	271.4	216.5	205.0	167.5	147.3	155.9	167.5	167.5
60°	9958.4	5214.5	750.7	277.2	202.1	190.6	150.1	129.9	144.4	155.9	158.8
62.5°	9513.7	4293.4	805.6	262.7	181.9	170.4	147.3	121.3	138.6	147.3	150.1
65°	8552.2	3262.7	629.4	228.1	167.5	147.3	132.8	115.5	129.9	138.6	138.6
66°	8096.0	2844.0	537.0	210.8	161.7	138.6	127.0	115.5	127.0	132.8	135.7
67.5°	7388.6	2243.4	398.4	184.8	150.1	127.0	118.4	109.7	121.3	127.0	127.0
70°	5777.5	1336.8	239.6	144.4	129.9	112.6	106.8	101.1	109.7	112.6	112.6
72.5°	3617.8	635.2	153.0	106.8	109.7	106.8	89.5	95.3	98.2	101.1	101.1
75°	1752.6	251.2	103.9	78.0	89.5	101.1	72.2	83.7	86.6	92.4	89.5
77.5°	488.0	121.3	66.4	57.7	78.0	78.0	54.9	66.4	78.0	98.2	89.5
80°	141.5	78.0	43.3	43.3	54.9	54.9	37.5	46.2	52.0	57.7	60.6
82.5°	98.2	52.0	28.9	31.8	31.8	34.6	23.1	23.1	28.9	28.9	31.8
85°	78.0	23.1	17.3	20.2	14.4	17.3	11.5	11.5	14.4	11.5	11.5
87.5°	31.8	11.5	11.5	11.5	8.7	8.7	5.8	2.9	2.9	2.9	2.9
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)