

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: P1211204

Luminaire Tested: **ARCH4-200-740-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211204
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: ARCH4-200-740-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22800 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 203.7
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



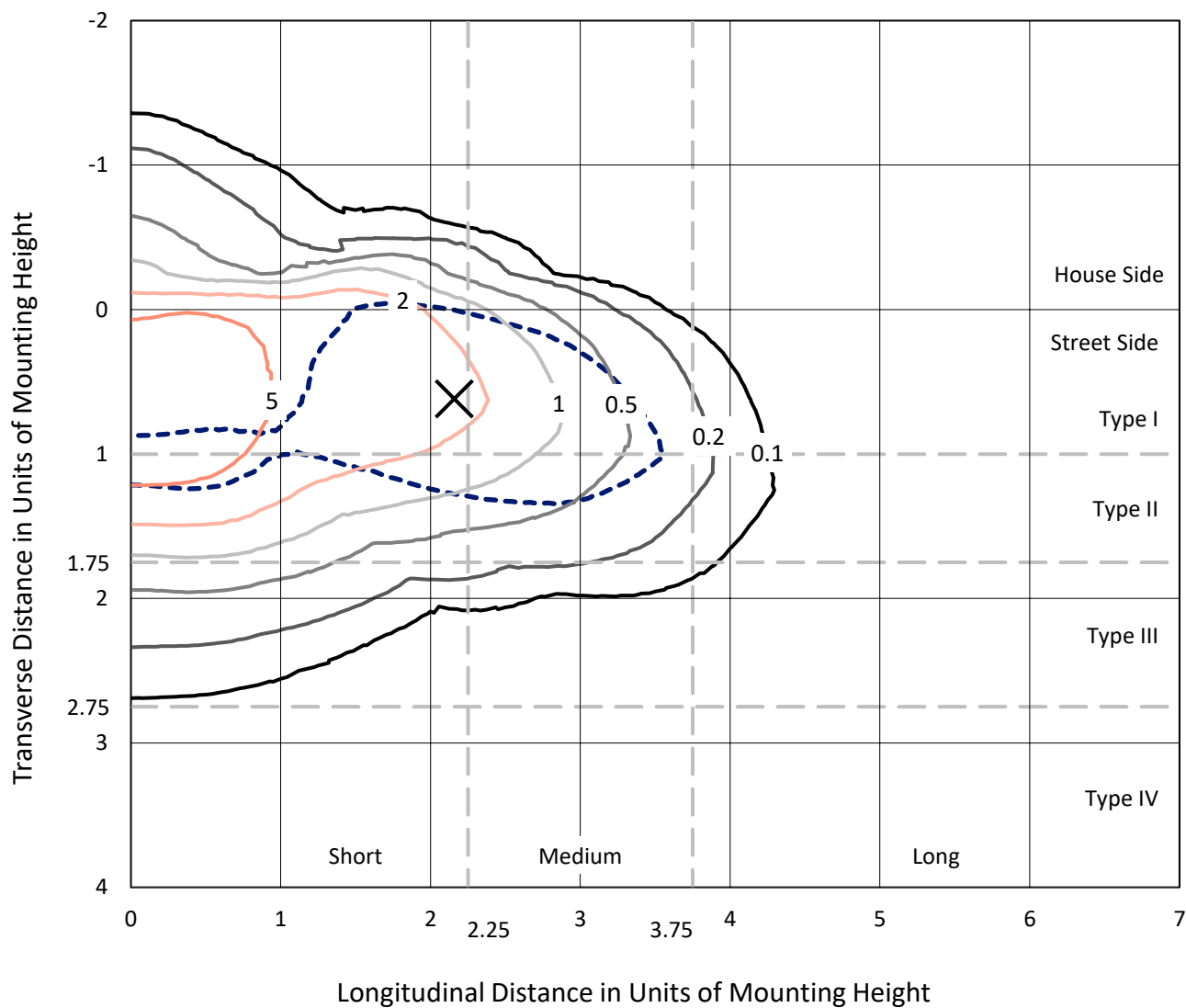
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Iso-Footcandle Lines of Horizontal Illumination

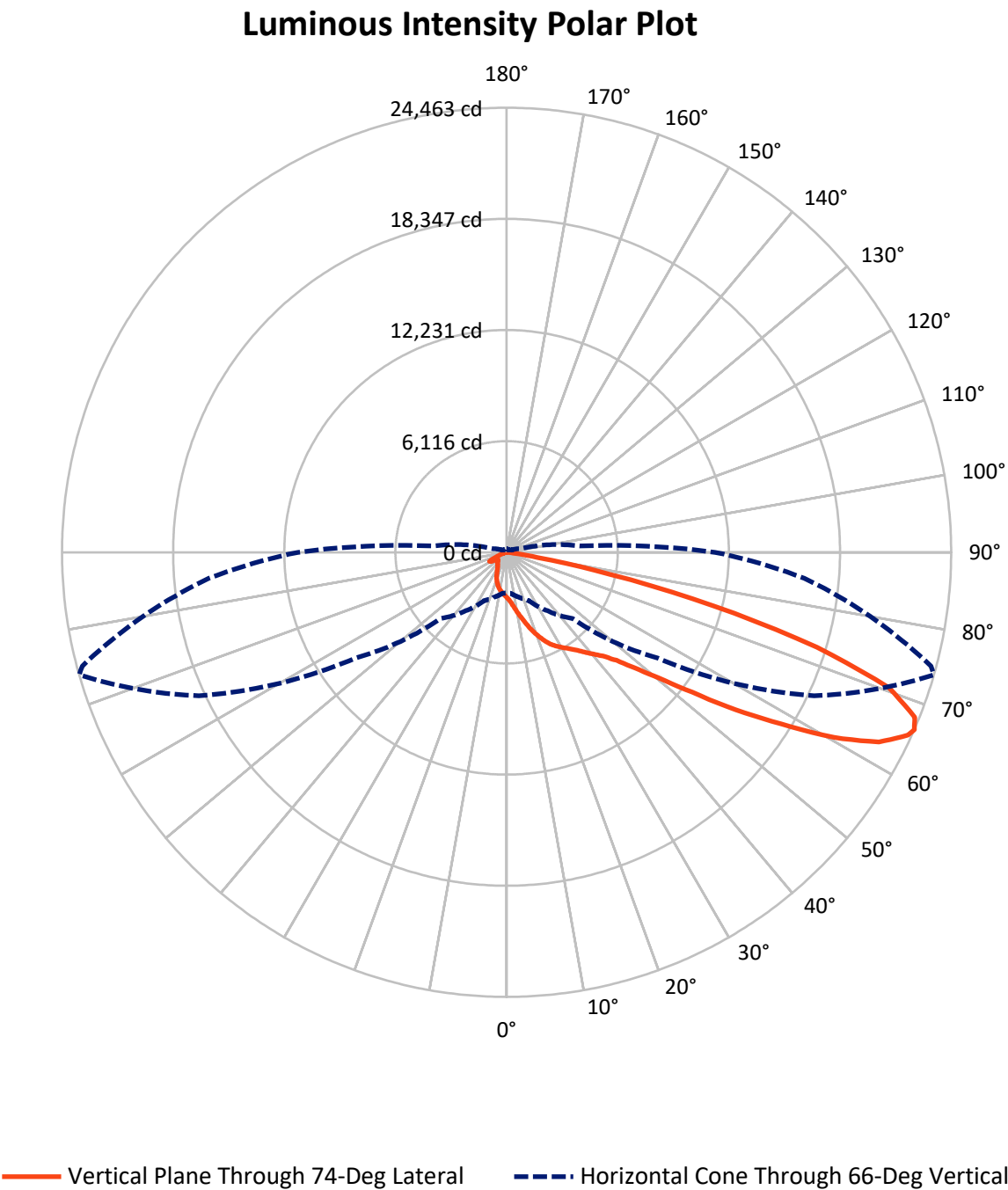
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2235.1	0.0	2235.1
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	20564.9	0.0	20564.9
	% Fixture	90.2	0.0	90.2
Total	Lumens	22800.0	0.0	22800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.9	1.1
10°-20°	778.8	3.4
20°-30°	1486.3	6.5
30°-40°	2605.0	11.4
40°-50°	4466.9	19.6
50°-60°	5809.6	25.5
60°-70°	5259.1	23.1
70°-80°	2029.3	8.9
80°-90°	122.1	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°	22800.0	100.0
0°-180°	22800.0	100.0

Coefficient of Utilization



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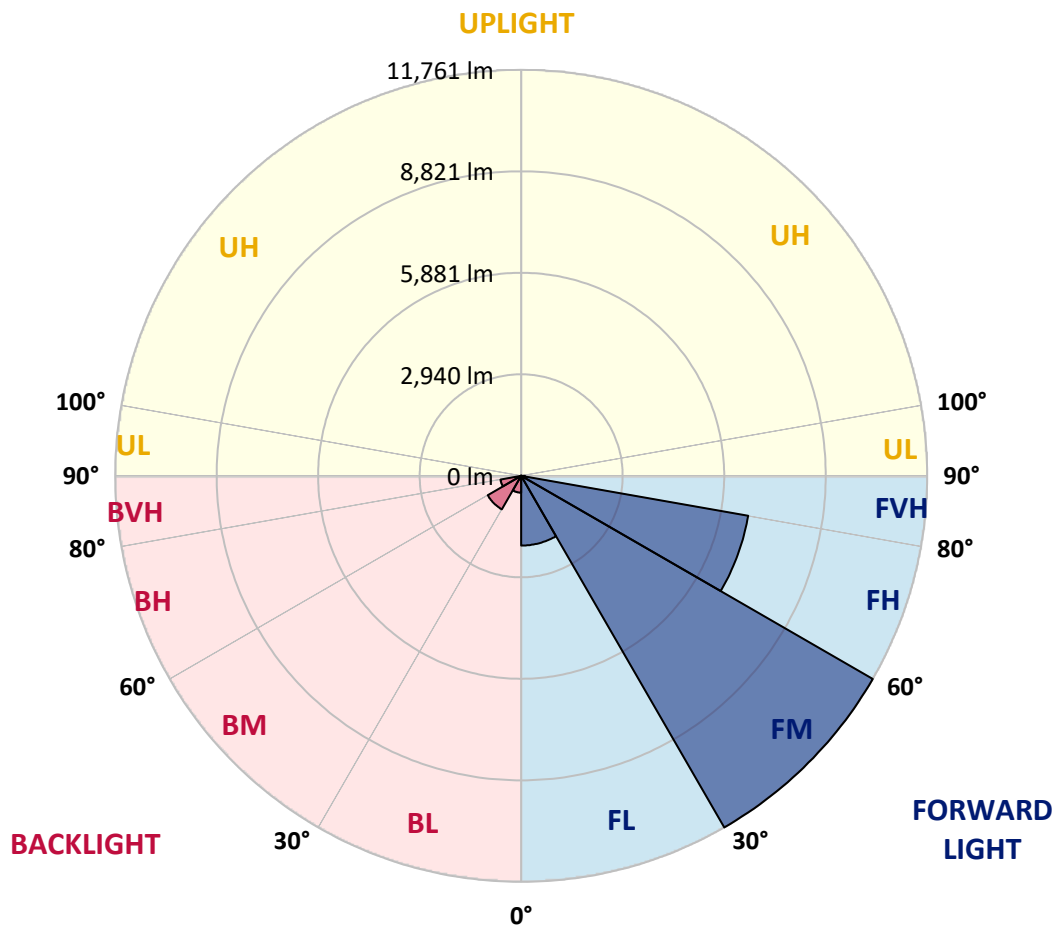
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2020.4	8.9			
FM	(30°-60°)	11761.4	51.6			
FH	(60°-80°)	6677.3	29.3			G3/7500
FVH	(80°-90°)	105.7	0.5			G2/225
BL	(0°-30°)	487.5	2.1	B1/500		
BM	(30°-60°)	1120.2	4.9	B2/2500		
BH	(60°-80°)	611.1	2.7	B2/1000		G2/1000
BVH	(80°-90°)	16.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8
2.5°	2988.2	2963.7	2918.6	2914.5	2877.7	2832.7	2754.9	2673.0	2615.7	2607.5	2537.9
5°	3577.7	3565.4	3520.4	3491.7	3422.1	3315.7	3135.6	2955.5	2804.0	2787.6	2632.1
7.5°	3733.2	3741.4	3749.6	3778.3	3753.7	3704.6	3569.5	3315.7	3078.3	3041.4	2771.3
10°	3757.8	3749.6	3749.6	3786.4	3856.0	3925.6	3909.2	3692.3	3385.3	3340.3	2963.7
12.5°	4023.9	4036.1	4007.5	3991.1	3978.8	4015.7	4138.5	4044.3	3708.7	3671.8	3197.0
15°	4367.7	4363.6	4322.7	4322.7	4285.8	4224.4	4302.2	4371.8	4097.5	4052.5	3463.1
17.5°	4617.4	4633.8	4629.7	4654.3	4642.0	4560.1	4519.2	4662.4	4498.7	4441.4	3766.0
20°	4818.0	4863.0	4879.4	4957.2	4994.0	4936.7	4830.3	4920.3	4883.5	4830.3	4073.0
22.5°	5030.8	5067.7	5096.3	5231.4	5333.8	5321.5	5186.4	5165.9	5256.0	5206.9	4375.9
25°	5243.7	5260.1	5346.0	5509.8	5673.5	5714.5	5575.3	5415.6	5591.7	5546.6	4646.1
27.5°	5477.0	5485.2	5587.6	5788.1	6017.4	6103.3	5992.8	5698.1	5849.5	5849.5	4891.7
30°	5902.8	5984.6	6025.6	6205.7	6406.2	6525.0	6394.0	5996.9	6078.8	6115.6	5149.6
32.5°	6819.7	6832.0	6819.7	6897.5	6938.4	7008.0	6856.5	6332.6	6312.1	6353.0	5403.4
35°	8219.6	8170.5	8039.5	7924.9	7687.5	7556.5	7360.0	6762.4	6598.6	6655.9	5653.1
37.5°	9918.4	9848.8	9550.0	9198.0	8690.4	8166.4	7920.8	7286.3	6963.0	7036.6	5923.2
40°	11539.4	11494.4	11138.3	10704.4	9836.6	8940.1	8420.2	7728.4	7368.2	7396.9	6197.5
42.5°	12873.9	12865.7	12566.9	12112.5	10999.1	9775.2	9009.7	8162.3	7793.9	7839.0	6484.0
45°	13885.0	13807.2	13586.2	13258.7	12124.8	10643.0	9721.9	8821.4	8477.5	8530.7	6913.8
47.5°	13885.0	13897.3	14040.5	14007.8	12910.7	11457.6	10499.7	9652.4	9488.6	9537.7	7622.0
50°	12755.2	12869.8	13508.4	14044.6	13320.1	12092.0	11338.9	10692.1	10859.9	10933.6	8858.2
52.5°	10520.2	10712.6	11821.9	13045.8	13017.2	12411.3	12206.7	12014.3	12767.5	12898.5	10683.9
55°	7994.5	8121.4	9566.4	11175.1	11699.1	12149.4	12964.0	13692.6	15293.1	15264.5	12538.2
57.5°	5972.3	6091.1	7335.5	9120.2	9812.0	11015.5	13352.8	15612.4	17798.3	17908.8	14278.0
60°	4392.3	4482.3	5542.5	7008.0	8006.8	9279.8	13197.3	17503.6	20684.2	20557.3	15813.0
62.5°	3250.2	3299.3	4064.8	5018.6	6344.8	7560.6	12218.9	18797.1	22988.8	22730.9	16668.5
65°	2513.4	2529.8	2926.8	3434.4	4613.3	5878.2	10761.7	18993.6	24261.9	23987.6	16652.2
66°	2239.1	2251.4	2542.0	2935.0	3925.6	5145.5	10123.1	18678.4	24462.5	24171.8	16447.5
67.5°	1878.9	1870.7	2042.6	2300.5	2947.3	3970.6	8989.2	17757.4	24225.0	24077.7	15792.5
70°	1391.8	1395.9	1481.8	1543.2	1723.3	2198.2	6492.2	15403.6	22325.7	22317.5	13995.5
72.5°	1031.5	1043.8	1109.3	1121.6	1076.6	1191.2	3741.4	12251.7	17859.7	17863.8	10462.9
75°	773.7	794.1	814.6	822.8	781.8	753.2	1690.6	8244.2	11748.2	11662.2	5923.2
77.5°	589.5	597.6	614.0	601.7	593.6	519.9	704.1	4019.8	5800.4	5284.6	1919.8
80°	429.8	429.8	446.2	429.8	425.7	372.5	384.8	1289.4	1702.9	1416.3	413.4
82.5°	270.2	266.1	278.4	274.3	266.1	237.4	225.1	360.2	393.0	352.0	200.6
85°	151.5	147.4	143.3	139.2	126.9	106.4	122.8	135.1	180.1	184.2	143.3
87.5°	53.2	53.2	49.1	45.0	36.8	36.8	45.0	45.0	65.5	65.5	73.7
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°	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8
2.5°	2505.2	2460.2	2394.7	2308.7	2247.3	2185.9	2120.4	2083.6	2030.4	2018.1	2034.4
5°	2550.2	2468.3	2304.6	2124.5	1968.9	1829.8	1698.8	1621.0	1543.2	1514.6	1526.9
7.5°	2644.4	2505.2	2226.8	1936.2	1678.3	1469.5	1314.0	1223.9	1154.4	1125.7	1133.9
10°	2783.5	2570.7	2153.2	1723.3	1391.8	1170.7	1039.7	982.4	941.5	925.1	929.2
12.5°	2951.4	2664.8	2059.0	1510.5	1146.2	953.8	892.4	880.1	871.9	863.7	867.8
15°	3139.7	2746.7	1948.5	1301.7	953.8	847.3	826.9	822.8	818.7	818.7	818.7
17.5°	3336.2	2820.4	1825.7	1105.2	831.0	781.8	769.6	769.6	769.6	773.7	773.7
20°	3520.4	2877.7	1682.4	929.2	761.4	720.4	712.3	712.3	716.4	720.4	720.4
22.5°	3700.5	2902.3	1514.6	806.4	704.1	667.2	655.0	655.0	655.0	659.0	659.0
25°	3856.0	2902.3	1346.7	728.6	655.0	618.1	601.7	597.6	601.7	601.7	601.7
27.5°	3987.0	2890.0	1183.0	675.4	605.8	569.0	552.6	548.5	556.7	560.8	560.8
30°	4126.2	2873.6	1052.0	626.3	564.9	528.1	511.7	511.7	524.0	540.3	540.3
32.5°	4261.3	2885.9	949.7	585.4	524.0	495.3	478.9	483.0	507.6	532.1	532.1
35°	4404.6	2910.4	888.3	556.7	495.3	466.7	454.4	466.7	491.2	515.8	515.8
37.5°	4547.8	2939.1	851.4	532.1	470.7	442.1	433.9	450.3	478.9	503.5	507.6
40°	4699.3	2963.7	810.5	507.6	454.4	421.6	417.5	433.9	470.7	495.3	499.4
42.5°	4887.6	3012.8	761.4	487.1	438.0	397.1	401.2	413.4	450.3	487.1	491.2
45°	5256.0	3168.3	712.3	466.7	417.5	384.8	376.6	384.8	425.7	466.7	474.8
47.5°	5947.8	3520.4	659.0	446.2	397.1	376.6	343.8	352.0	388.9	433.9	438.0
50°	7274.1	4269.5	630.4	425.7	380.7	347.9	311.1	311.1	339.8	380.7	380.7
52.5°	9341.3	5612.1	646.8	409.3	360.2	319.3	282.4	278.4	294.7	323.4	323.4
55°	11572.2	7085.8	708.2	393.0	335.7	302.9	262.0	241.5	253.8	270.2	270.2
57.5°	13340.6	7826.7	876.0	384.8	307.0	290.6	237.4	208.8	221.0	237.4	237.4
60°	14118.3	7392.8	1064.3	393.0	286.5	270.2	212.9	184.2	204.7	221.0	225.1
62.5°	13487.9	6087.0	1142.1	372.5	257.9	241.5	208.8	171.9	196.5	208.8	212.9
65°	12124.8	4625.6	892.4	323.4	237.4	208.8	188.3	163.7	184.2	196.5	196.5
66°	11478.0	4032.0	761.4	298.8	229.2	196.5	180.1	163.7	180.1	188.3	192.4
67.5°	10475.1	3180.6	564.9	262.0	212.9	180.1	167.8	155.6	171.9	180.1	180.1
70°	8191.0	1895.3	339.8	204.7	184.2	159.6	151.5	143.3	155.6	159.6	159.6
72.5°	5129.1	900.6	217.0	151.5	155.6	151.5	126.9	135.1	139.2	143.3	143.3
75°	2484.7	356.1	147.4	110.5	126.9	143.3	102.3	118.7	122.8	131.0	126.9
77.5°	691.8	171.9	94.1	81.9	110.5	110.5	77.8	94.1	110.5	139.2	126.9
80°	200.6	110.5	61.4	61.4	77.8	77.8	53.2	65.5	73.7	81.9	86.0
82.5°	139.2	73.7	40.9	45.0	45.0	49.1	32.7	32.7	40.9	40.9	45.0
85°	110.5	32.7	24.6	28.7	20.5	24.6	16.4	16.4	20.5	16.4	16.4
87.5°	45.0	16.4	16.4	16.4	12.3	12.3	8.2	4.1	4.1	4.1	4.1
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)