

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: P1211642

Luminaire Tested: **ARCH4-70-727-U-T3RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211642
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-4)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-70-727-U-T3RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 605mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8516 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 73.8
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

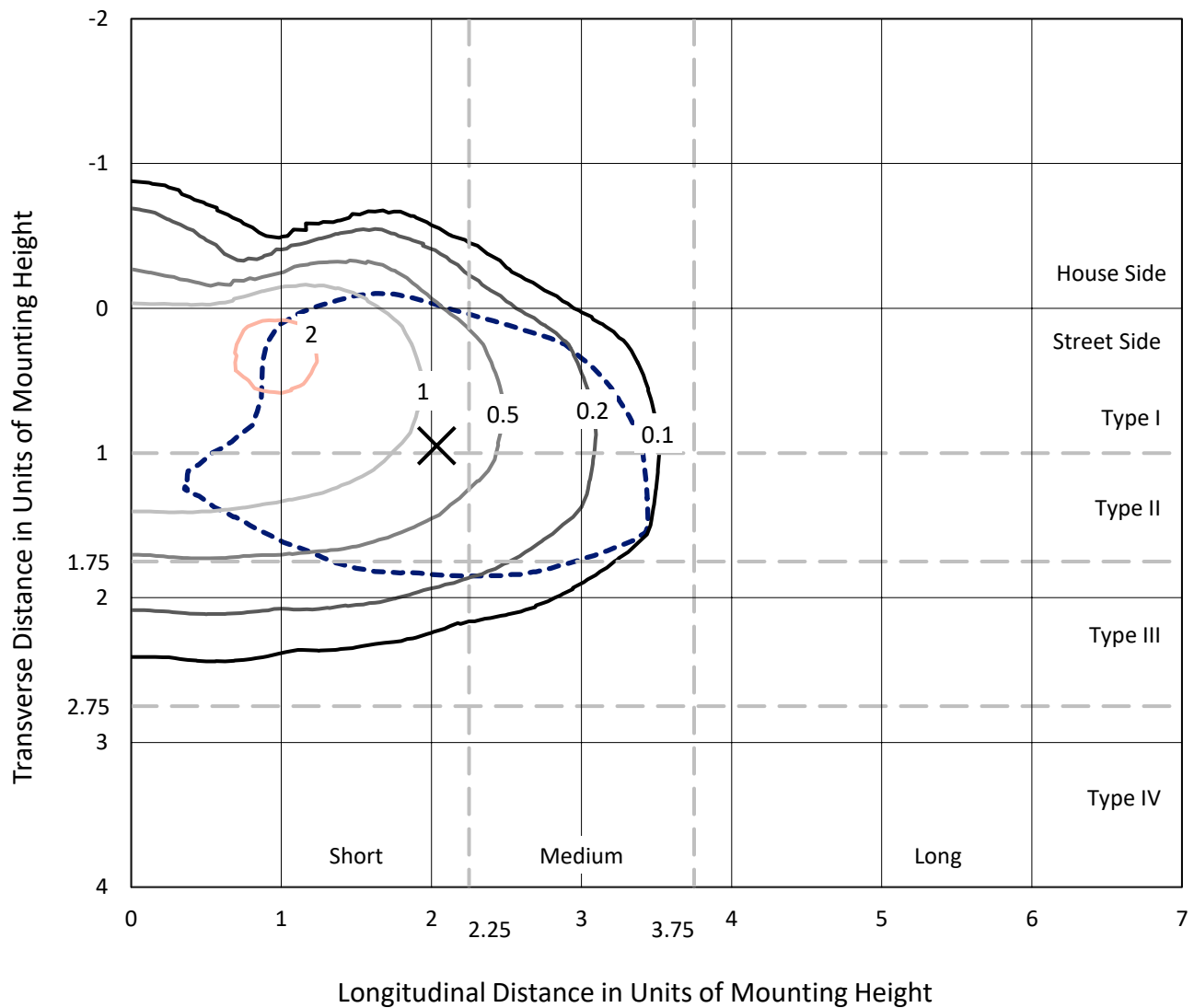


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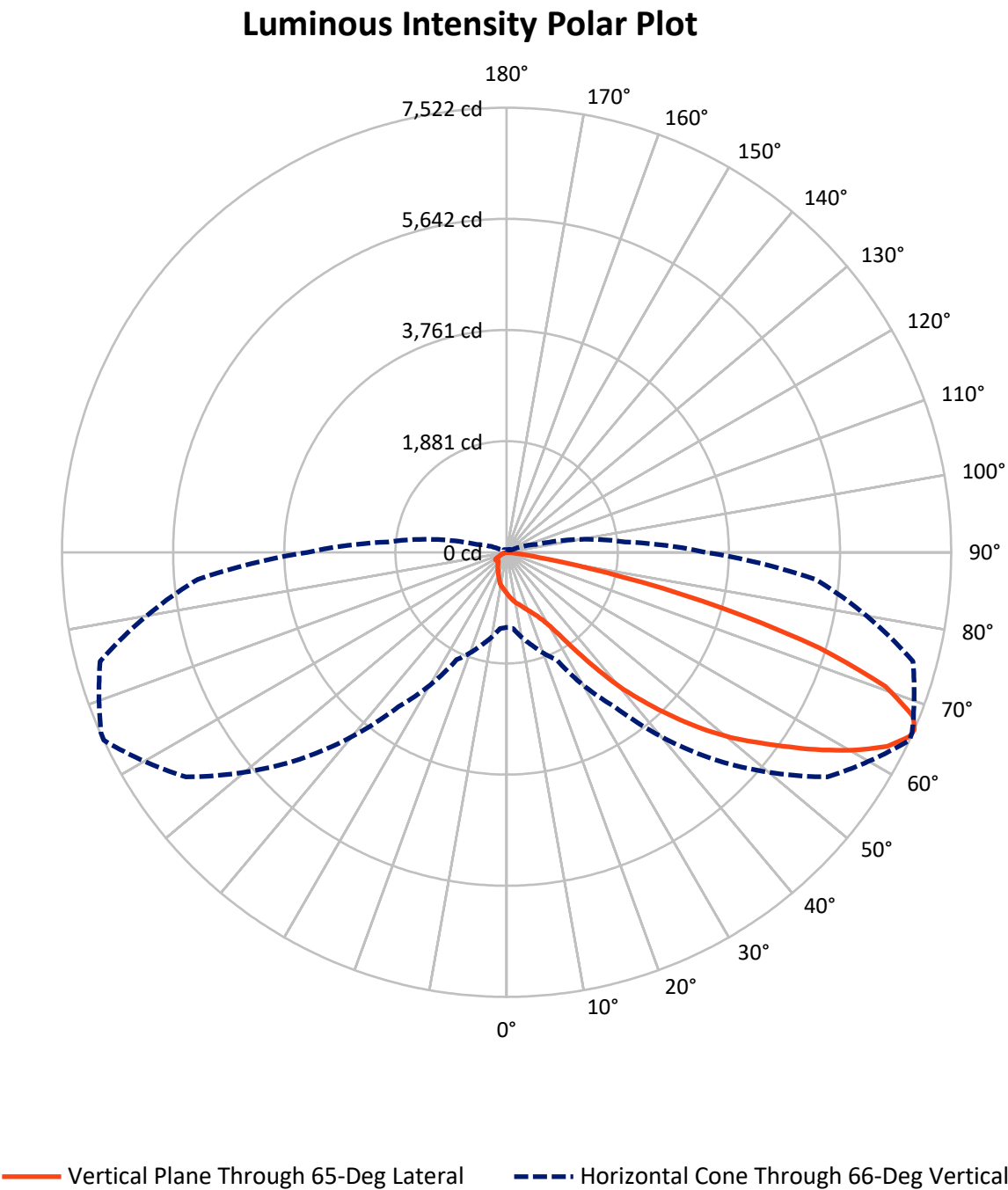
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
Type III - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1005.1	0.0	1005.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7510.9	0.0	7510.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	8516.0	0.0	8516.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	0.8
10°-20°	194.7	2.3
20°-30°	356.4	4.2
30°-40°	724.2	8.5
40°-50°	1529.2	18.0
50°-60°	2350.9	27.6
60°-70°	2366.4	27.8
70°-80°	884.2	10.4
80°-90°	44.2	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°	8516.0	100.0
0°-180°	8516.0	100.0

Coefficient of Utilization



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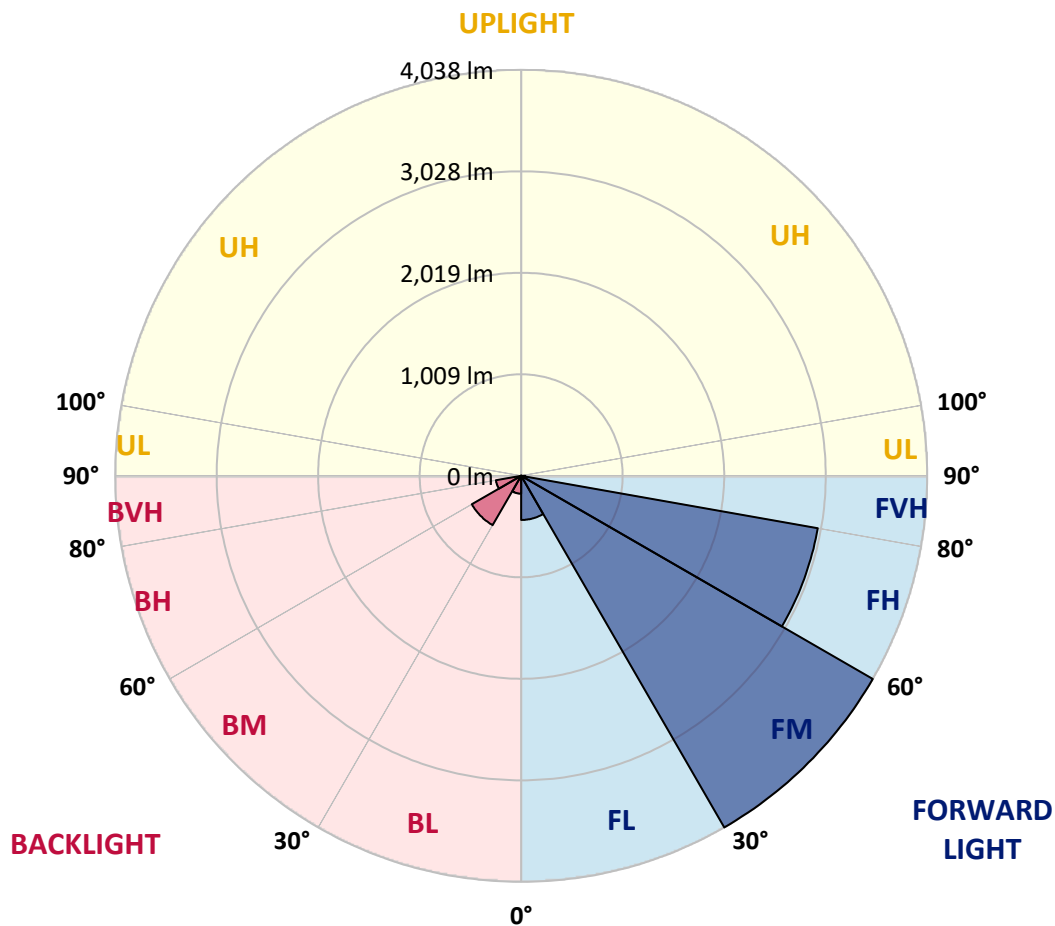
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.0	5.2			
FM	(30°-60°)	4037.7	47.4			
FH	(60°-80°)	2995.3	35.2			G2/5000
FVH	(80°-90°)	39.0	0.5			G1/100
BL	(0°-30°)	177.9	2.1	B1/500		
BM	(30°-60°)	566.7	6.7	B1/1000		
BH	(60°-80°)	255.3	3.0	B1/500		G1/500
BVH	(80°-90°)	5.2	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8
2.5°	791.2	792.7	789.6	783.4	777.3	769.5	757.2	737.1	734.0	720.1	704.6
5°	845.2	848.3	843.7	842.2	839.1	828.3	811.3	781.9	778.8	751.0	715.4
7.5°	863.8	868.4	865.3	865.3	865.3	860.7	853.0	826.7	822.1	786.5	732.4
10°	877.7	880.8	879.2	885.4	890.1	887.0	882.3	866.9	862.2	826.7	755.6
12.5°	899.3	900.9	902.4	905.5	913.2	916.3	914.8	900.9	897.8	873.1	785.0
15°	919.4	919.4	921.0	934.9	945.7	951.9	953.4	942.6	939.5	919.4	822.1
17.5°	938.0	939.5	944.1	959.6	978.1	990.5	998.2	993.6	989.0	973.5	865.3
20°	965.8	968.9	973.5	995.1	1013.7	1033.8	1049.2	1047.7	1046.1	1035.3	916.3
22.5°	1013.7	1016.8	1024.5	1044.6	1063.1	1087.9	1114.1	1112.6	1107.9	1100.2	976.6
25°	1086.3	1086.3	1090.9	1107.9	1131.1	1160.5	1185.2	1189.8	1185.2	1180.6	1052.3
27.5°	1177.5	1179.0	1179.0	1197.6	1219.2	1256.3	1287.2	1291.8	1291.8	1287.2	1154.3
30°	1304.2	1299.5	1296.5	1311.9	1335.1	1389.2	1443.3	1452.5	1447.9	1455.6	1298.0
32.5°	1522.1	1514.3	1488.1	1491.2	1505.1	1579.2	1670.4	1702.9	1701.3	1715.2	1529.8
35°	1823.4	1807.9	1769.3	1736.9	1735.3	1815.7	1954.7	2076.8	2075.3	2123.2	1882.1
37.5°	2163.3	2183.4	2110.8	2055.2	2038.2	2101.5	2280.8	2545.0	2558.9	2642.4	2344.1
40°	2617.6	2630.0	2537.3	2458.5	2378.1	2401.3	2637.7	3048.8	3073.5	3166.2	2806.2
42.5°	3013.2	3025.6	2971.5	2875.7	2773.7	2730.4	2997.8	3506.2	3526.2	3654.5	3282.1
45°	3282.1	3291.4	3309.9	3319.2	3203.3	3113.7	3438.2	3975.9	4000.6	4149.0	3747.2
47.5°	3492.3	3500.0	3537.1	3629.8	3606.6	3535.5	3886.3	4464.2	4470.4	4635.7	4200.0
50°	3589.6	3608.1	3699.3	3841.5	3943.5	3963.5	4373.0	4926.2	4943.2	5100.8	4628.0
52.5°	3481.4	3487.6	3717.9	3985.2	4190.7	4394.7	4861.3	5354.3	5403.7	5521.2	5012.8
55°	3116.8	3161.6	3510.8	3980.5	4385.4	4804.2	5383.6	5816.3	5861.1	5935.3	5351.2
57.5°	2693.4	2742.8	3167.7	3781.2	4468.8	5182.7	5867.3	6307.7	6338.6	6358.7	5661.8
60°	2327.1	2373.5	2810.8	3399.5	4385.4	5450.1	6317.0	6796.0	6822.3	6768.2	5817.8
62.5°	1877.5	1923.8	2364.2	2894.2	4057.8	5504.2	6650.7	7230.2	7241.0	7094.2	5722.0
65°	1415.4	1446.3	1814.1	2268.4	3484.5	5216.7	6726.4	7500.6	7489.8	7188.5	5434.6
66°	1268.6	1294.9	1619.4	2005.7	3186.3	4954.1	6624.5	7522.2	7511.4	7118.9	5246.1
67.5°	1094.0	1101.8	1369.1	1641.0	2665.5	4396.2	6313.9	7423.4	7432.6	6927.3	4901.5
70°	854.5	853.0	1007.5	1141.9	1820.3	3127.6	5266.2	6800.6	6845.4	6204.2	4179.9
72.5°	547.0	528.5	618.1	698.5	1060.0	1815.7	3839.9	5542.8	5618.5	4873.7	3113.7
75°	326.0	307.5	329.1	349.2	508.4	873.1	2257.6	3771.9	3844.6	3124.5	1852.7
77.5°	244.1	236.4	238.0	221.0	225.6	327.6	1030.7	1993.4	2045.9	1279.5	703.1
80°	187.0	166.9	156.1	163.8	148.3	129.8	383.2	686.1	718.5	302.9	146.8
82.5°	125.2	108.2	100.4	109.7	94.3	72.6	92.7	132.9	129.8	81.9	57.2
85°	64.9	55.6	55.6	55.6	47.9	35.5	40.2	54.1	54.1	43.3	34.0
87.5°	18.5	17.0	20.1	18.5	13.9	13.9	15.5	18.5	18.5	17.0	15.5
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°	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8	693.8
2.5°	692.3	686.1	669.1	656.7	644.4	633.5	621.2	618.1	611.9	613.5	610.4
5°	696.9	679.9	650.5	622.7	601.1	582.6	559.4	550.1	537.7	533.1	530.0
7.5°	703.1	678.4	635.1	596.5	559.4	522.3	485.2	463.6	449.7	443.5	438.8
10°	717.0	684.5	627.4	567.1	503.7	451.2	414.1	398.7	389.4	387.9	386.3
12.5°	735.5	693.8	619.6	530.0	446.6	397.1	373.9	369.3	367.8	367.8	366.2
15°	763.4	709.3	607.3	486.8	401.8	367.8	357.0	349.2	346.1	346.1	346.1
17.5°	791.2	727.8	588.7	441.9	370.9	349.2	338.4	333.8	330.7	332.2	330.7
20°	826.7	749.4	564.0	403.3	350.8	333.8	323.0	318.3	316.8	316.8	316.8
22.5°	866.9	774.2	533.1	373.9	333.8	318.3	307.5	302.9	299.8	301.3	301.3
25°	921.0	805.1	500.7	344.6	316.8	302.9	290.5	284.3	284.3	285.9	287.4
27.5°	990.5	842.2	468.2	326.0	301.3	287.4	273.5	267.3	268.9	272.0	272.0
30°	1092.5	893.2	435.8	306.0	284.3	268.9	256.5	250.3	253.4	259.6	259.6
32.5°	1237.7	976.6	407.9	282.8	259.6	242.6	230.2	225.6	233.3	245.7	245.7
35°	1497.3	1129.6	390.9	259.6	233.3	213.2	197.8	193.2	204.0	219.4	219.4
37.5°	1845.0	1375.3	397.1	239.5	211.7	188.5	171.5	165.3	173.1	187.0	191.6
40°	2232.9	1672.0	451.2	222.5	191.6	168.4	151.4	145.3	149.9	156.1	157.6
42.5°	2620.7	1987.2	553.2	210.2	176.2	151.4	136.0	131.3	134.4	136.0	137.5
45°	3007.0	2299.3	681.5	202.4	162.3	137.5	122.1	122.1	123.6	123.6	123.6
47.5°	3373.3	2603.7	815.9	200.9	149.9	123.6	111.3	112.8	112.8	114.3	114.3
50°	3719.4	2875.7	951.9	205.5	139.1	111.3	102.0	102.0	102.0	103.5	102.0
52.5°	4008.4	3113.7	1094.0	213.2	128.3	102.0	92.7	92.7	92.7	94.3	92.7
55°	4281.9	3330.0	1239.3	224.1	119.0	94.3	85.0	81.9	81.9	83.4	81.9
57.5°	4504.4	3473.7	1376.8	225.6	111.3	86.5	78.8	74.2	74.2	74.2	74.2
60°	4513.7	3390.3	1417.0	197.8	102.0	78.8	71.1	64.9	66.4	66.4	66.4
62.5°	4218.5	2951.4	1138.8	148.3	91.2	71.1	64.9	58.7	58.7	58.7	58.7
65°	3639.0	2296.2	667.5	117.4	78.8	63.4	57.2	52.5	52.5	52.5	51.0
66°	3367.1	2013.5	511.5	106.6	74.2	61.8	55.6	51.0	49.4	47.9	47.9
67.5°	2923.6	1591.6	319.9	94.3	68.0	57.2	51.0	46.4	44.8	43.3	43.3
70°	2202.0	1010.6	156.1	72.6	58.7	49.4	44.8	40.2	38.6	37.1	35.5
72.5°	1545.2	591.8	81.9	55.6	47.9	43.3	38.6	34.0	32.5	30.9	30.9
75°	873.1	285.9	54.1	40.2	38.6	35.5	32.5	27.8	26.3	26.3	26.3
77.5°	330.7	98.9	37.1	29.4	30.9	27.8	23.2	23.2	21.6	23.2	21.6
80°	86.5	43.3	23.2	21.6	23.2	20.1	17.0	18.5	18.5	18.5	18.5
82.5°	46.4	24.7	13.9	15.5	13.9	13.9	10.8	12.4	13.9	12.4	13.9
85°	32.5	12.4	7.7	7.7	6.2	6.2	4.6	6.2	7.7	6.2	6.2
87.5°	17.0	4.6	4.6	4.6	4.6	3.1	1.5	0.0	1.5	1.5	1.5
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)