

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: P1210968

Luminaire Tested: **ARCH4-130-727-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210968
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: ARCH4-130-727-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1080mA 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: 14768 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: B1 - U0 - G2

Input Watts (W): 132
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

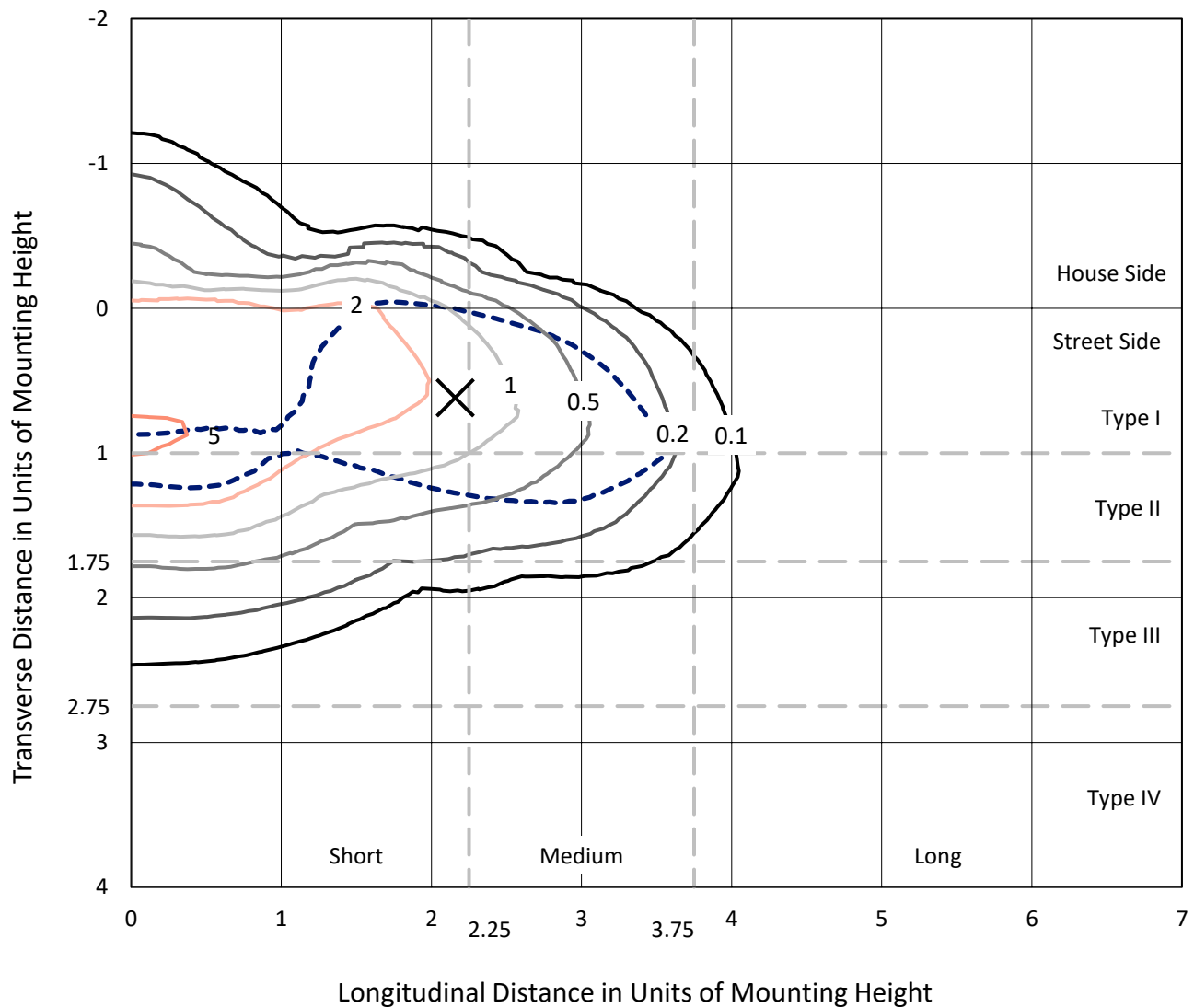


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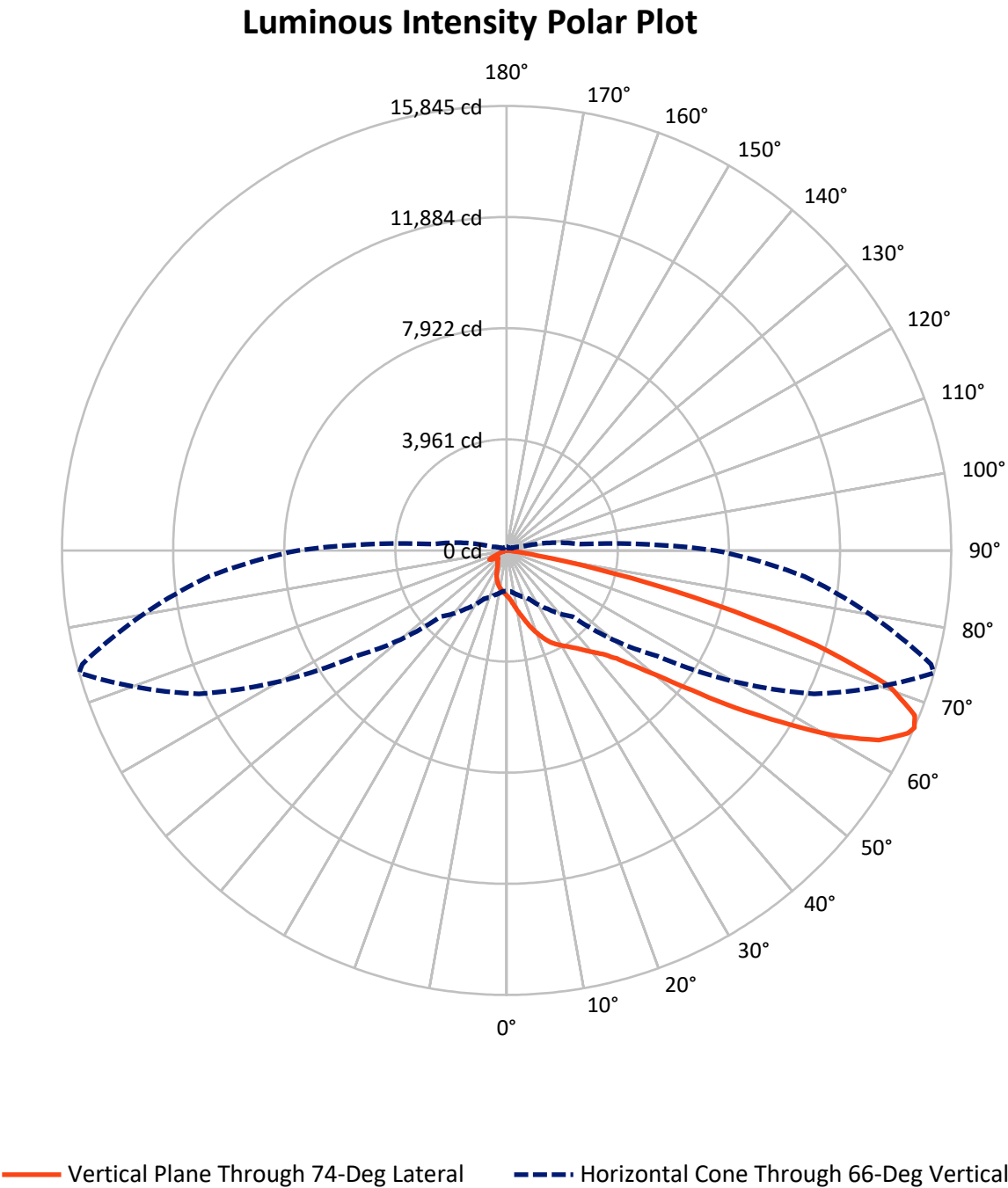
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
Type II - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1447.7	0.0	1447.7
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	13320.3	0.0	13320.3
	% Fixture	90.2	0.0	90.2
Total	Lumens	14768.0	0.0	14768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.3	1.1
10°-20°	504.4	3.4
20°-30°	962.7	6.5
30°-40°	1687.3	11.4
40°-50°	2893.3	19.6
50°-60°	3763.0	25.5
60°-70°	3406.4	23.1
70°-80°	1314.4	8.9
80°-90°	79.1	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°	14768.0	100.0
0°-180°	14768.0	100.0

Coefficient of Utilization



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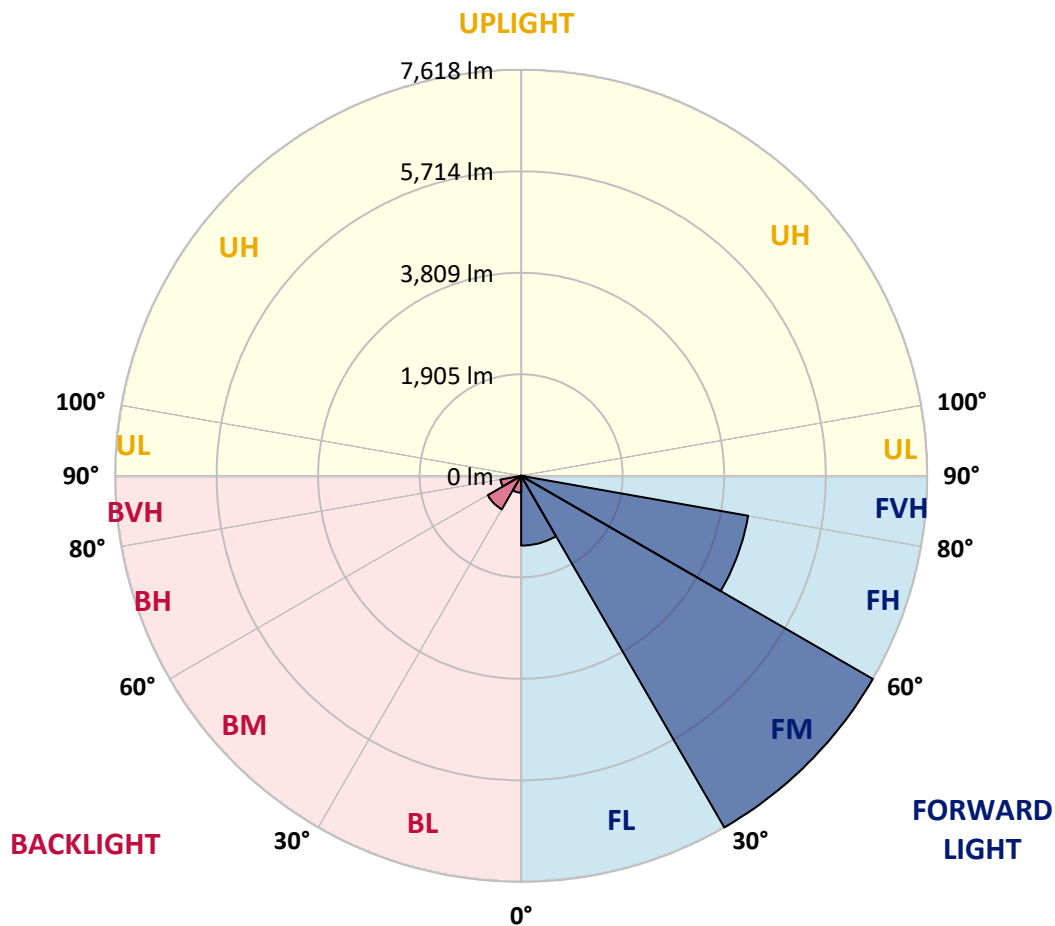
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1308.7	8.9			
FM	(30°-60°)	7618.1	51.6			
FH	(60°-80°)	4325.0	29.3			G2/5000
FVH	(80°-90°)	68.5	0.5			G1/100
BL	(0°-30°)	315.8	2.1	B1/500		
BM	(30°-60°)	725.6	4.9	B1/1000		
BH	(60°-80°)	395.8	2.7	B1/500		G1/500
BVH	(80°-90°)	10.6	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°	1612.1	1612.1	1612.1	1612.1	1612.1	1612.1	1612.1	1612.1	1612.1	1612.1	1612.1
2.5°	1935.5	1919.6	1890.5	1887.8	1863.9	1834.8	1784.4	1731.4	1694.2	1688.9	1643.9
5°	2317.3	2309.4	2280.2	2261.6	2216.6	2147.6	2031.0	1914.3	1816.2	1805.6	1704.9
7.5°	2418.1	2423.4	2428.7	2447.2	2431.3	2399.5	2312.0	2147.6	1993.9	1970.0	1795.0
10°	2434.0	2428.7	2428.7	2452.6	2497.6	2542.7	2532.1	2391.6	2192.7	2163.5	1919.6
12.5°	2606.3	2614.3	2595.7	2585.1	2577.2	2601.0	2680.6	2619.6	2402.2	2378.3	2070.7
15°	2829.1	2826.4	2799.9	2799.9	2776.0	2736.3	2786.6	2831.7	2654.1	2624.9	2243.1
17.5°	2990.8	3001.4	2998.7	3014.6	3006.7	2953.7	2927.2	3020.0	2913.9	2876.8	2439.3
20°	3120.7	3149.9	3160.5	3210.9	3234.7	3197.6	3128.7	3187.0	3163.1	3128.7	2638.1
22.5°	3258.6	3282.4	3301.0	3388.5	3454.8	3446.8	3359.3	3346.1	3404.4	3372.6	2834.4
25°	3396.5	3407.1	3462.7	3568.8	3674.8	3701.4	3611.2	3507.8	3621.8	3592.7	3009.3
27.5°	3547.6	3552.9	3619.2	3749.1	3897.6	3953.2	3881.7	3690.8	3788.9	3788.9	3168.4
30°	3823.3	3876.4	3902.9	4019.5	4149.5	4226.3	4141.5	3884.3	3937.3	3961.2	3335.5
32.5°	4417.2	4425.2	4417.2	4467.6	4494.1	4539.2	4441.1	4101.7	4088.5	4115.0	3499.9
35°	5324.0	5292.2	5207.4	5133.1	4979.3	4894.5	4767.2	4380.1	4274.1	4311.2	3661.6
37.5°	6424.4	6379.3	6185.7	5957.7	5628.9	5289.6	5130.5	4719.5	4510.0	4557.8	3836.6
40°	7474.3	7445.1	7214.5	6933.4	6371.3	5790.7	5453.9	5005.9	4772.5	4791.1	4014.2
42.5°	8338.7	8333.4	8139.8	7845.5	7124.3	6331.6	5835.7	5286.9	5048.3	5077.4	4199.8
45°	8993.6	8943.2	8800.0	8587.9	7853.5	6893.7	6297.1	5713.8	5491.1	5525.5	4478.2
47.5°	8993.6	9001.5	9094.3	9073.1	8362.5	7421.3	6800.9	6252.0	6146.0	6177.8	4936.9
50°	8261.8	8336.0	8749.6	9097.0	8627.7	7832.3	7344.4	6925.5	7034.2	7081.9	5737.6
52.5°	6814.1	6938.7	7657.3	8450.0	8431.5	8039.1	7906.5	7781.9	8269.7	8354.6	6920.2
55°	5178.2	5260.4	6196.3	7238.3	7577.7	7869.4	8397.0	8869.0	9905.7	9887.1	8121.3
57.5°	3868.4	3945.3	4751.3	5907.3	6355.4	7134.9	8648.9	10112.5	11528.3	11599.9	9248.1
60°	2845.0	2903.3	3590.0	4539.2	5186.2	6010.7	8548.1	11337.4	13397.6	13315.4	10242.4
62.5°	2105.2	2137.0	2632.8	3250.6	4109.7	4897.1	7914.4	12175.3	14890.3	14723.3	10796.5
65°	1628.0	1638.6	1895.8	2224.5	2988.1	3807.4	6970.5	12302.5	15714.9	15537.2	10785.9
66°	1450.3	1458.3	1646.5	1901.1	2542.7	3332.8	6556.9	12098.4	15844.8	15656.6	10653.3
67.5°	1217.0	1211.7	1323.1	1490.1	1909.0	2571.9	5822.5	11501.8	15691.0	15595.6	10229.1
70°	901.5	904.1	959.8	999.6	1116.2	1423.8	4205.1	9977.2	14460.8	14455.5	9065.2
72.5°	668.2	676.1	718.5	726.5	697.3	771.6	2423.4	7935.7	11568.1	11570.7	6777.0
75°	501.1	514.4	527.6	532.9	506.4	487.9	1095.0	5339.9	7609.5	7553.9	3836.6
77.5°	381.8	387.1	397.7	389.8	384.5	336.7	456.0	2603.7	3757.0	3423.0	1243.5
80°	278.4	278.4	289.0	278.4	275.7	241.3	249.2	835.2	1103.0	917.4	267.8
82.5°	175.0	172.3	180.3	177.6	172.3	153.8	145.8	233.3	254.5	228.0	129.9
85°	98.1	95.5	92.8	90.1	82.2	68.9	79.5	87.5	116.7	119.3	92.8
87.5°	34.5	34.5	31.8	29.2	23.9	23.9	29.2	29.2	42.4	42.4	47.7
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°	1612.1	1612.1	1612.1	1612.1	1612.1	1612.1	1612.1	1612.1	1612.1	1612.1	1612.1
2.5°	1622.7	1593.5	1551.1	1495.4	1455.6	1415.9	1373.4	1349.6	1315.1	1307.1	1317.7
5°	1651.8	1598.8	1492.7	1376.1	1275.3	1185.2	1100.3	1050.0	999.6	981.0	989.0
7.5°	1712.8	1622.7	1442.4	1254.1	1087.1	951.9	851.1	792.8	747.7	729.1	734.4
10°	1803.0	1665.1	1394.6	1116.2	901.5	758.3	673.5	636.3	609.8	599.2	601.9
12.5°	1911.7	1726.1	1333.7	978.4	742.4	617.8	578.0	570.1	564.7	559.4	562.1
15°	2033.6	1779.1	1262.1	843.1	617.8	548.8	535.6	532.9	530.3	530.3	530.3
17.5°	2160.9	1826.8	1182.5	715.9	538.2	506.4	498.5	498.5	498.5	501.1	501.1
20°	2280.2	1863.9	1089.7	601.9	493.2	466.6	461.3	461.3	464.0	466.6	466.6
22.5°	2396.9	1879.8	981.0	522.3	456.0	432.2	424.2	424.2	424.2	426.9	426.9
25°	2497.6	1879.8	872.3	472.0	424.2	400.4	389.8	387.1	389.8	389.8	389.8
27.5°	2582.5	1871.9	766.3	437.5	392.4	368.5	357.9	355.3	360.6	363.2	363.2
30°	2672.6	1861.3	681.4	405.7	365.9	342.0	331.4	331.4	339.4	350.0	350.0
32.5°	2760.1	1869.2	615.1	379.2	339.4	320.8	310.2	312.9	328.8	344.7	344.7
35°	2852.9	1885.1	575.4	360.6	320.8	302.3	294.3	302.3	318.2	334.1	334.1
37.5°	2945.7	1903.7	551.5	344.7	304.9	286.4	281.0	291.7	310.2	326.1	328.8
40°	3043.8	1919.6	525.0	328.8	294.3	273.1	270.4	281.0	304.9	320.8	323.5
42.5°	3165.8	1951.4	493.2	315.5	283.7	257.2	259.8	267.8	291.7	315.5	318.2
45°	3404.4	2052.2	461.3	302.3	270.4	249.2	243.9	249.2	275.7	302.3	307.6
47.5°	3852.5	2280.2	426.9	289.0	257.2	243.9	222.7	228.0	251.9	281.0	283.7
50°	4711.5	2765.4	408.3	275.7	246.6	225.4	201.5	201.5	220.1	246.6	246.6
52.5°	6050.5	3635.1	418.9	265.1	233.3	206.8	182.9	180.3	190.9	209.5	209.5
55°	7495.5	4589.6	458.7	254.5	217.4	196.2	169.7	156.4	164.4	175.0	175.0
57.5°	8640.9	5069.5	567.4	249.2	198.9	188.2	153.8	135.2	143.2	153.8	153.8
60°	9144.7	4788.4	689.4	254.5	185.6	175.0	137.9	119.3	132.6	143.2	145.8
62.5°	8736.4	3942.6	739.7	241.3	167.0	156.4	135.2	111.4	127.3	135.2	137.9
65°	7853.5	2996.1	578.0	209.5	153.8	135.2	122.0	106.1	119.3	127.3	127.3
66°	7434.5	2611.6	493.2	193.6	148.5	127.3	116.7	106.1	116.7	122.0	124.6
67.5°	6784.9	2060.1	365.9	169.7	137.9	116.7	108.7	100.8	111.4	116.7	116.7
70°	5305.5	1227.6	220.1	132.6	119.3	103.4	98.1	92.8	100.8	103.4	103.4
72.5°	3322.2	583.3	140.5	98.1	100.8	98.1	82.2	87.5	90.1	92.8	92.8
75°	1609.4	230.7	95.5	71.6	82.2	92.8	66.3	76.9	79.5	84.8	82.2
77.5°	448.1	111.4	61.0	53.0	71.6	71.6	50.4	61.0	71.6	90.1	82.2
80°	129.9	71.6	39.8	39.8	50.4	50.4	34.5	42.4	47.7	53.0	55.7
82.5°	90.1	47.7	26.5	29.2	29.2	31.8	21.2	21.2	26.5	26.5	29.2
85°	71.6	21.2	15.9	18.6	13.3	15.9	10.6	10.6	13.3	10.6	10.6
87.5°	29.2	10.6	10.6	10.6	8.0	8.0	5.3	2.7	2.7	2.7	2.7
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)