

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: P1211284

Luminaire Tested: **ARCH4-230-722-U-T2RE-HSS**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211284
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: ARCH4-230-722-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 905mA 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: 21068 lumens
Efficiency: N/A
Efficacy: 91.1 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

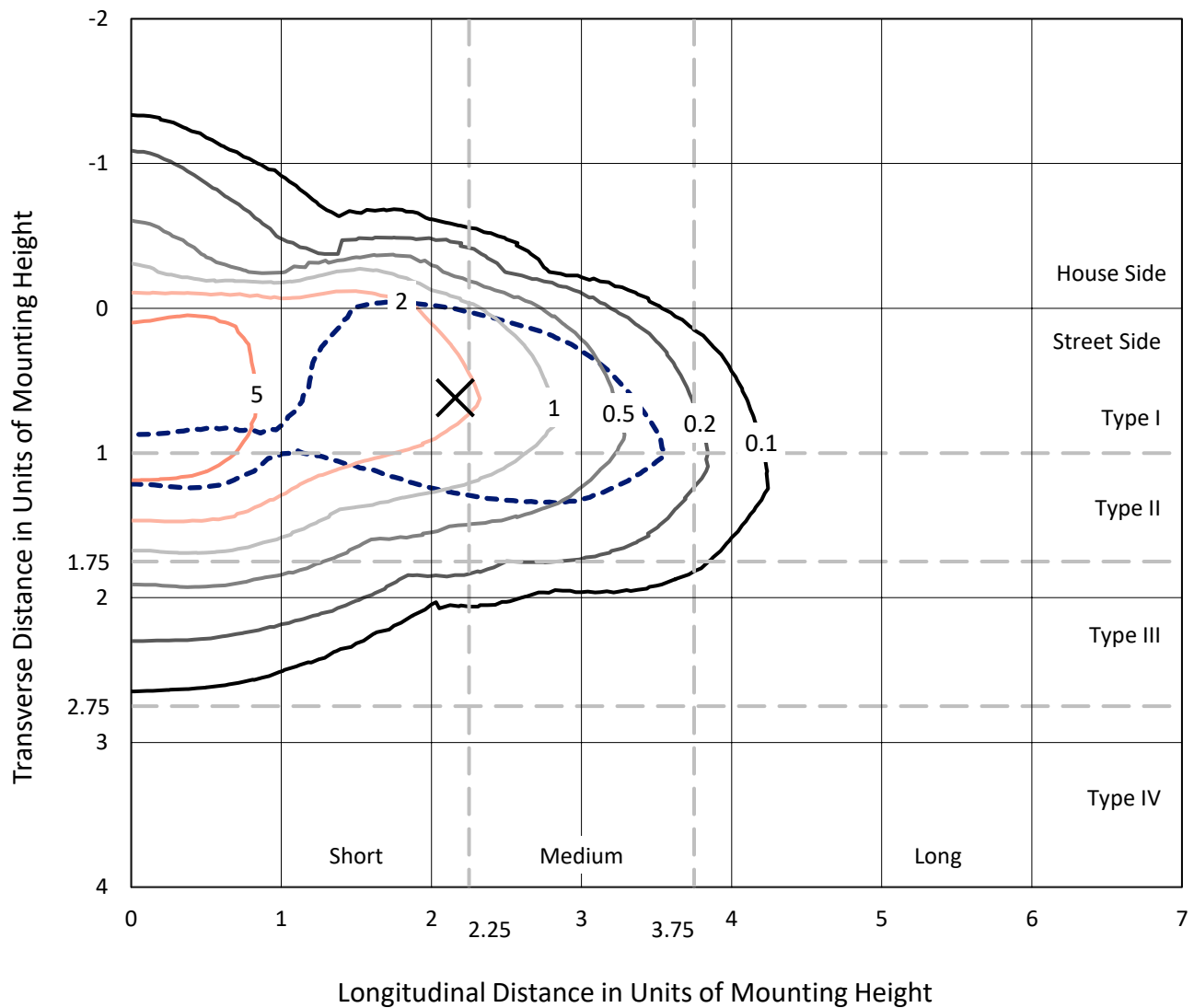
Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

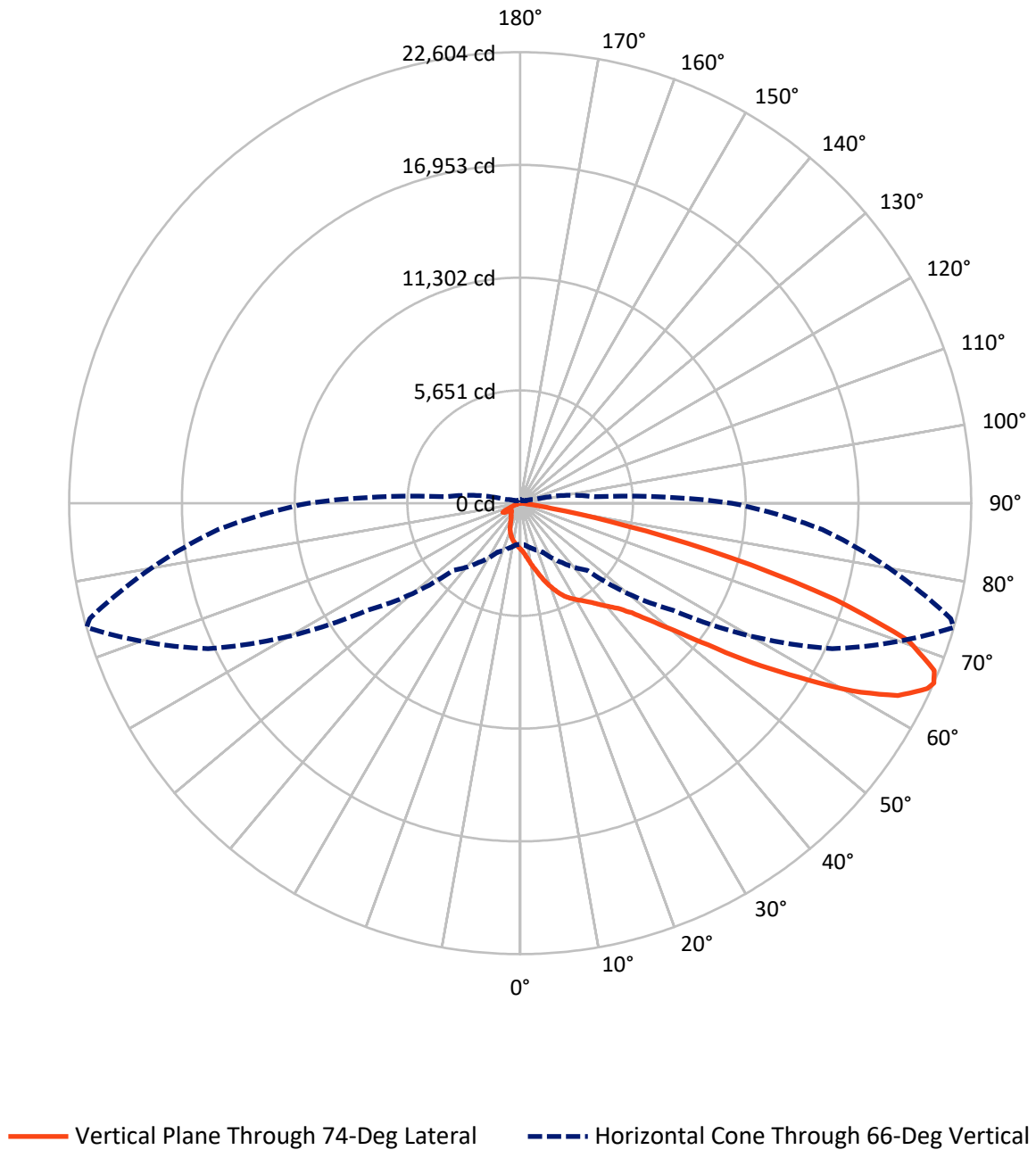
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	2065.3	0.0	2065.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	19002.7	0.0	19002.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	21068.0	0.0	21068.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	1.1
10°-20°	719.6	3.4
20°-30°	1373.4	6.5
30°-40°	2407.1	11.4
40°-50°	4127.6	19.6
50°-60°	5368.3	25.5
60°-70°	4859.6	23.1
70°-80°	1875.1	8.9
80°-90°	112.8	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°	21068.0	100.0
0°-180°	21068.0	100.0

Coefficient of Utilization



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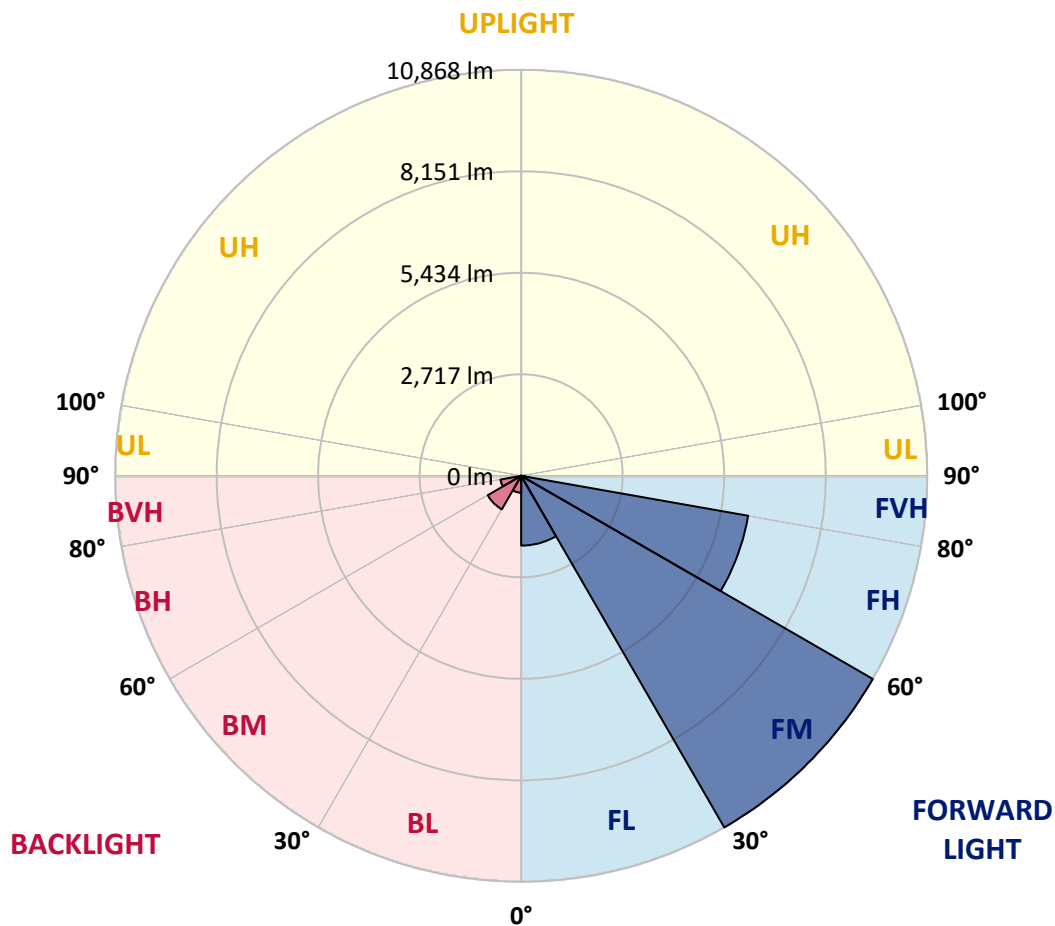
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1866.9	8.9			
FM	(30°-60°)	10867.9	51.6			
FH	(60°-80°)	6170.1	29.3			G3/7500
FVH	(80°-90°)	97.7	0.5			G1/100
BL	(0°-30°)	450.5	2.1	B1/500		
BM	(30°-60°)	1035.1	4.9	B2/2500		
BH	(60°-80°)	564.6	2.7	B2/1000		G2/1000
BVH	(80°-90°)	15.1	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°	2299.8	2299.8	2299.8	2299.8	2299.8	2299.8	2299.8	2299.8	2299.8	2299.8	2299.8
2.5°	2761.2	2738.5	2696.9	2693.1	2659.1	2617.5	2545.6	2470.0	2417.0	2409.4	2345.1
5°	3305.9	3294.5	3252.9	3226.5	3162.2	3063.8	2897.4	2731.0	2591.0	2575.9	2432.1
7.5°	3449.6	3457.2	3464.8	3491.2	3468.5	3423.2	3298.3	3063.8	2844.4	2810.4	2560.7
10°	3472.3	3464.8	3464.8	3498.8	3563.1	3627.4	3612.3	3411.8	3128.1	3086.5	2738.5
12.5°	3718.2	3729.5	3703.1	3687.9	3676.6	3710.6	3824.1	3737.1	3426.9	3392.9	2954.1
15°	4035.9	4032.1	3994.3	3994.3	3960.3	3903.5	3975.4	4039.7	3786.3	3744.7	3200.0
17.5°	4266.6	4281.8	4278.0	4300.7	4289.3	4213.7	4175.9	4308.3	4157.0	4104.0	3479.9
20°	4452.0	4493.6	4508.7	4580.6	4614.6	4561.7	4463.3	4546.6	4512.5	4463.3	3763.6
22.5°	4648.7	4682.7	4709.2	4834.0	4928.6	4917.2	4792.4	4773.5	4856.7	4811.3	4043.5
25°	4845.4	4860.5	4939.9	5091.2	5242.5	5280.4	5151.8	5004.2	5166.9	5125.3	4293.1
27.5°	5061.0	5068.5	5163.1	5348.4	5560.3	5639.7	5537.6	5265.2	5405.2	5405.2	4520.1
30°	5454.4	5530.0	5567.8	5734.3	5919.6	6029.3	5908.3	5541.3	5617.0	5651.0	4758.4
32.5°	6301.6	6313.0	6301.6	6373.5	6411.3	6475.6	6335.7	5851.5	5832.6	5870.4	4992.9
35°	7595.2	7549.9	7428.8	7322.9	7103.5	6982.5	6800.9	6248.7	6097.4	6150.3	5223.6
37.5°	9165.0	9100.7	8824.6	8499.3	8030.2	7546.1	7319.1	6732.8	6434.0	6502.1	5473.3
40°	10662.8	10621.2	10292.2	9891.2	9089.3	8261.0	7780.6	7141.3	6808.5	6835.0	5726.7
42.5°	11895.9	11888.4	11612.2	11192.4	10163.6	9032.6	8325.3	7542.3	7201.9	7243.5	5991.5
45°	12830.2	12758.3	12554.1	12251.5	11203.7	9834.5	8983.4	8151.3	7833.5	7882.7	6388.6
47.5°	12830.2	12841.6	12973.9	12943.7	11930.0	10587.2	9702.1	8919.1	8767.8	8813.2	7043.0
50°	11786.2	11892.2	12482.2	12977.7	12308.2	11173.5	10477.5	9879.9	10034.9	10103.0	8185.3
52.5°	9721.0	9898.8	10923.8	12054.8	12028.3	11468.5	11279.4	11101.6	11797.6	11918.6	9872.3
55°	7387.2	7504.5	8839.7	10326.2	10810.4	11226.4	11979.1	12652.4	14131.4	14104.9	11585.8
57.5°	5518.7	5628.3	6778.2	8427.4	9066.6	10178.7	12338.5	14426.4	16446.3	16548.4	13193.3
60°	4058.6	4141.8	5121.5	6475.6	7398.6	8574.9	12194.7	16173.9	19112.9	18995.7	14611.8
62.5°	3003.3	3048.7	3756.0	4637.3	5862.9	6986.3	11290.7	17369.2	21242.5	21004.2	15402.3
65°	2322.4	2337.6	2704.5	3173.5	4262.9	5431.7	9944.2	17550.8	22418.8	22165.4	15387.2
66°	2069.0	2080.4	2348.9	2712.0	3627.4	4754.6	9354.1	17259.5	22604.2	22335.6	15198.0
67.5°	1736.2	1728.6	1887.5	2125.8	2723.4	3669.0	8306.3	16408.4	22384.8	22248.6	14592.8
70°	1286.0	1289.8	1369.3	1426.0	1592.4	2031.2	5999.0	14233.5	20629.7	20622.1	12932.3
72.5°	953.2	964.5	1025.1	1036.4	994.8	1100.7	3457.2	11321.0	16503.0	16506.8	9668.0
75°	714.9	733.8	752.7	760.3	722.5	696.0	1562.2	7617.9	10855.7	10776.3	5473.3
77.5°	544.7	552.2	567.4	556.0	548.5	480.4	650.6	3714.4	5359.8	4883.2	1774.0
80°	397.2	397.2	412.3	397.2	393.4	344.2	355.6	1191.5	1573.5	1308.7	382.0
82.5°	249.6	245.9	257.2	253.4	245.9	219.4	208.0	332.9	363.1	325.3	185.3
85°	140.0	136.2	132.4	128.6	117.3	98.3	113.5	124.8	166.4	170.2	132.4
87.5°	49.2	49.2	45.4	41.6	34.0	34.0	41.6	41.6	60.5	60.5	68.1
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°	2299.8	2299.8	2299.8	2299.8	2299.8	2299.8	2299.8	2299.8	2299.8	2299.8	2299.8
2.5°	2314.9	2273.3	2212.8	2133.3	2076.6	2019.9	1959.3	1925.3	1876.1	1864.8	1879.9
5°	2356.5	2280.8	2129.5	1963.1	1819.4	1690.8	1569.7	1497.9	1426.0	1399.5	1410.9
7.5°	2443.5	2314.9	2057.7	1789.1	1550.8	1357.9	1214.2	1131.0	1066.7	1040.2	1047.7
10°	2572.1	2375.4	1989.6	1592.4	1286.0	1081.8	960.8	907.8	870.0	854.8	858.6
12.5°	2727.2	2462.4	1902.6	1395.7	1059.1	881.3	824.6	813.2	805.7	798.1	801.9
15°	2901.2	2538.1	1800.5	1202.8	881.3	783.0	764.1	760.3	756.5	756.5	756.5
17.5°	3082.7	2606.1	1687.0	1021.3	767.8	722.5	711.1	711.1	711.1	714.9	714.9
20°	3252.9	2659.1	1554.6	858.6	703.5	665.7	658.2	658.2	661.9	665.7	665.7
22.5°	3419.4	2681.8	1399.5	745.2	650.6	616.5	605.2	605.2	605.2	609.0	609.0
25°	3563.1	2681.8	1244.4	673.3	605.2	571.2	556.0	552.2	556.0	556.0	556.0
27.5°	3684.1	2670.4	1093.1	624.1	559.8	525.8	510.6	506.9	514.4	518.2	518.2
30°	3812.8	2655.3	972.1	578.7	522.0	487.9	472.8	472.8	484.2	499.3	499.3
32.5°	3937.6	2666.7	877.5	540.9	484.2	457.7	442.6	446.3	469.0	491.7	491.7
35°	4070.0	2689.4	820.8	514.4	457.7	431.2	419.9	431.2	453.9	476.6	476.6
37.5°	4202.3	2715.8	786.8	491.7	435.0	408.5	400.9	416.1	442.6	465.2	469.0
40°	4342.3	2738.5	748.9	469.0	419.9	389.6	385.8	400.9	435.0	457.7	461.5
42.5°	4516.3	2783.9	703.5	450.1	404.7	366.9	370.7	382.0	416.1	450.1	453.9
45°	4856.7	2927.6	658.2	431.2	385.8	355.6	348.0	355.6	393.4	431.2	438.8
47.5°	5496.0	3252.9	609.0	412.3	366.9	348.0	317.7	325.3	359.3	400.9	404.7
50°	6721.5	3945.1	582.5	393.4	351.8	321.5	287.5	287.5	313.9	351.8	351.8
52.5°	8631.6	5185.8	597.6	378.2	332.9	295.0	261.0	257.2	272.3	298.8	298.8
55°	10693.1	6547.5	654.4	363.1	310.2	279.9	242.1	223.2	234.5	249.6	249.6
57.5°	12327.1	7232.1	809.5	355.6	283.7	268.6	219.4	192.9	204.3	219.4	219.4
60°	13045.8	6831.2	983.4	363.1	264.8	249.6	196.7	170.2	189.1	204.3	208.0
62.5°	12463.3	5624.6	1055.3	344.2	238.3	223.2	192.9	158.9	181.6	192.9	196.7
65°	11203.7	4274.2	824.6	298.8	219.4	192.9	174.0	151.3	170.2	181.6	181.6
66°	10606.1	3725.8	703.5	276.1	211.8	181.6	166.4	151.3	166.4	174.0	177.8
67.5°	9679.4	2939.0	522.0	242.1	196.7	166.4	155.1	143.7	158.9	166.4	166.4
70°	7568.8	1751.3	313.9	189.1	170.2	147.5	140.0	132.4	143.7	147.5	147.5
72.5°	4739.5	832.1	200.5	140.0	143.7	140.0	117.3	124.8	128.6	132.4	132.4
75°	2296.0	329.1	136.2	102.1	117.3	132.4	94.6	109.7	113.5	121.0	117.3
77.5°	639.2	158.9	87.0	75.6	102.1	102.1	71.9	87.0	102.1	128.6	117.3
80°	185.3	102.1	56.7	56.7	71.9	71.9	49.2	60.5	68.1	75.6	79.4
82.5°	128.6	68.1	37.8	41.6	41.6	45.4	30.3	30.3	37.8	37.8	41.6
85°	102.1	30.3	22.7	26.5	18.9	22.7	15.1	15.1	18.9	15.1	15.1
87.5°	41.6	15.1	15.1	15.1	11.3	11.3	7.6	3.8	3.8	3.8	3.8
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)