

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: P841696

Luminaire Tested: **ARCH4-210-750-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-750-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23791 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 213.1
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



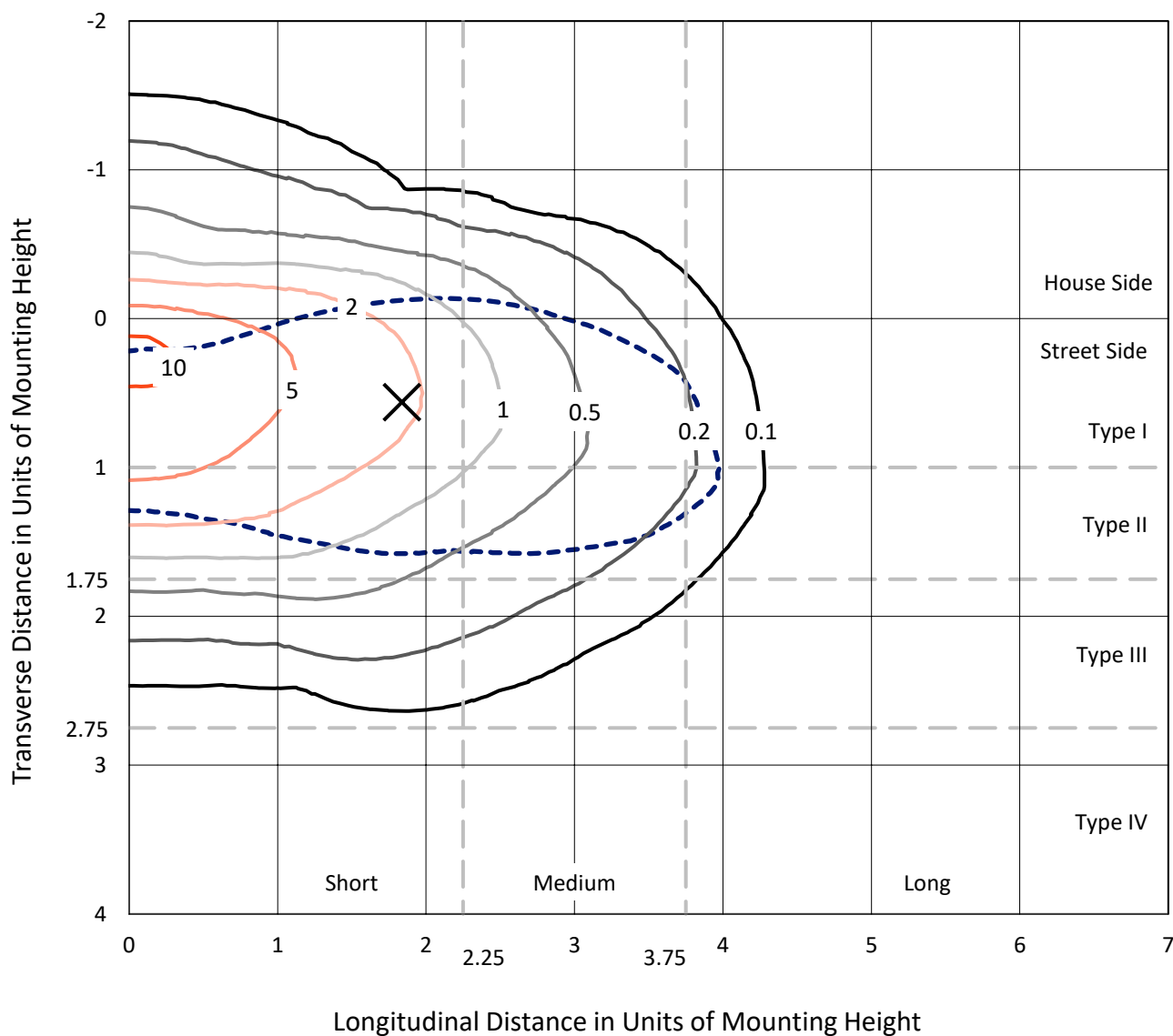
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

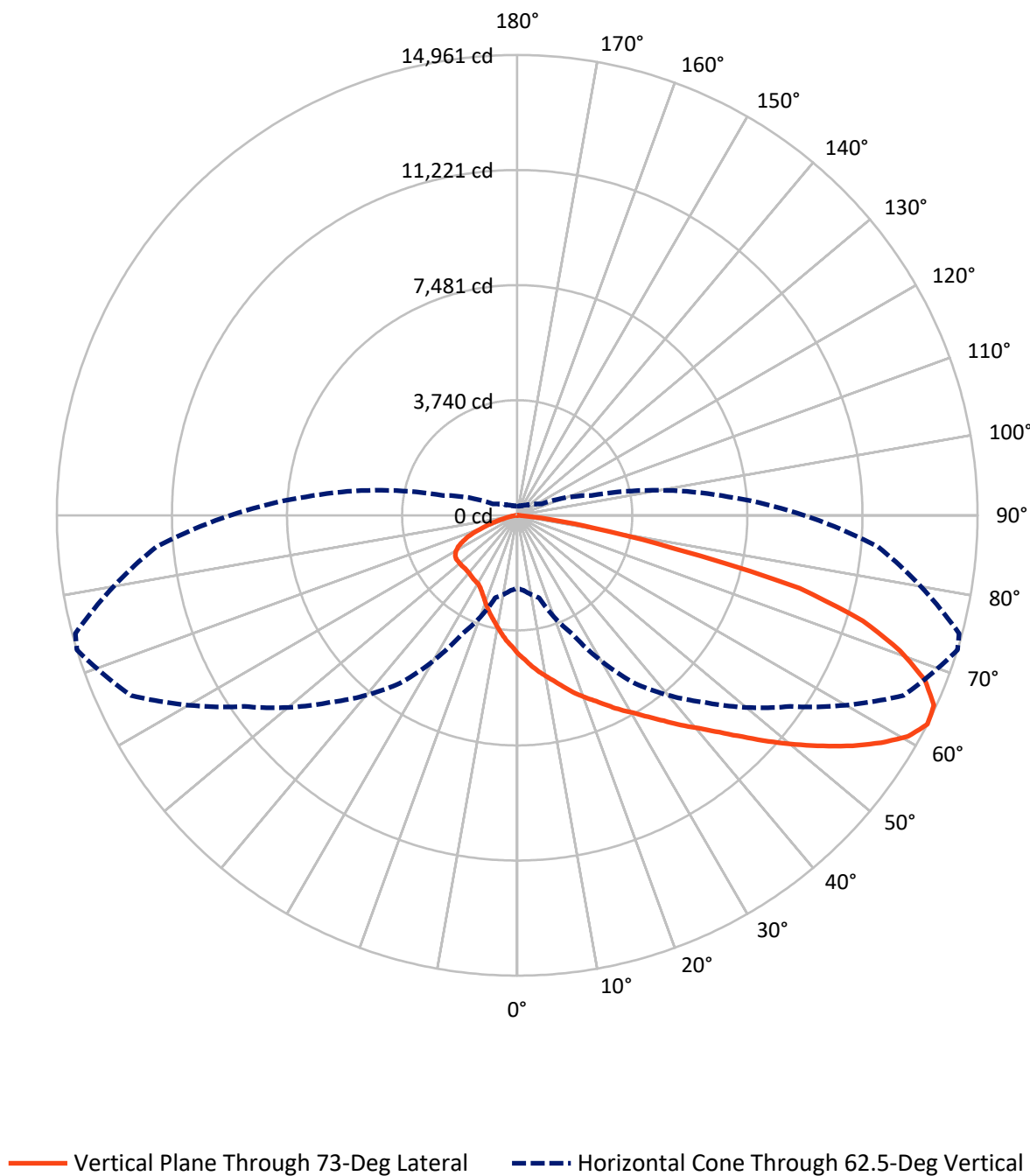


Based on 25 foot mounting height. Maximum calculated value = 11.3 fc

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	3688.0	0.0	3688.0
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	20103.1	0.0	20103.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	23791.0	0.0	23791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.2	1.8
10°-20°	1313.2	5.5
20°-30°	2185.9	9.2
30°-40°	3298.2	13.9
40°-50°	4610.0	19.4
50°-60°	5092.1	21.4
60°-70°	4435.8	18.6
70°-80°	2240.7	9.4
80°-90°	179.9	0.8
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°	23791.0	100.0
0°-180°	23791.0	100.0

Coefficient of Utilization



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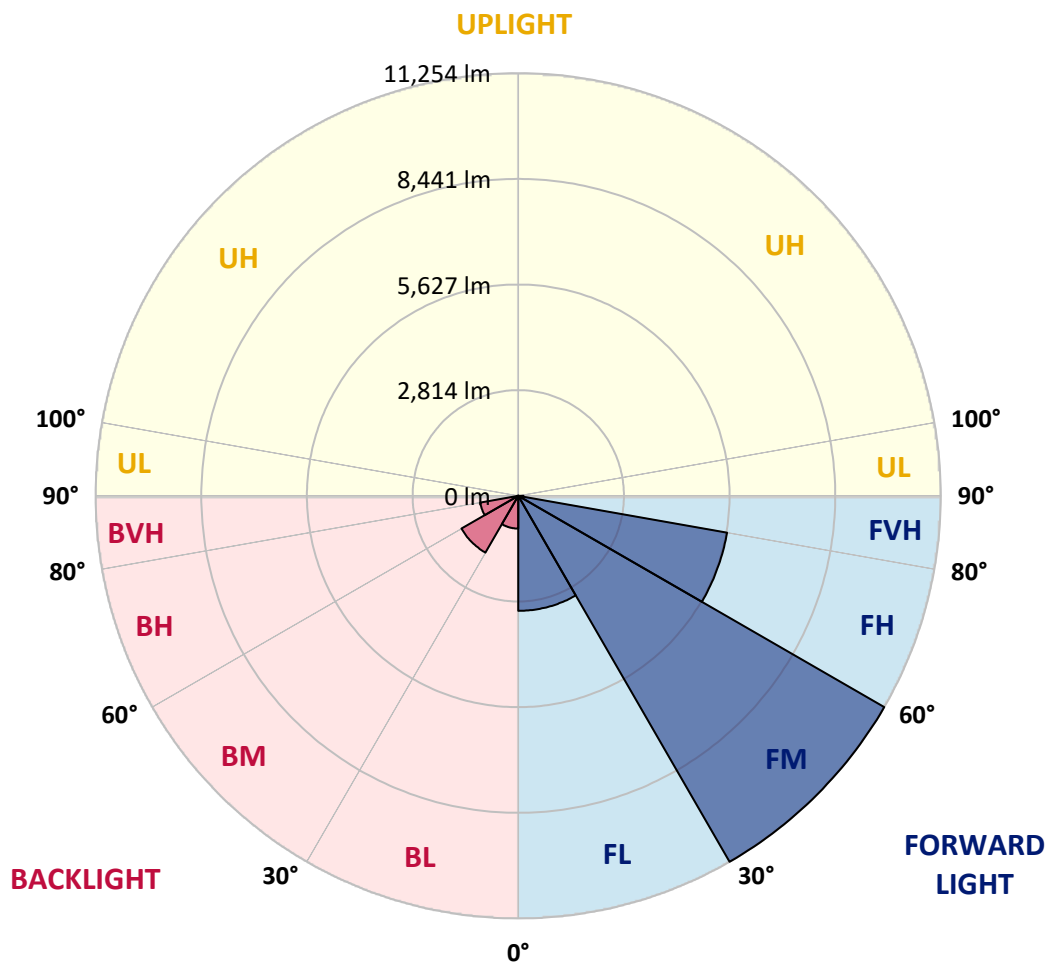
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3062.6	12.9			
FM	(30°-60°)	11254.0	47.3			
FH	(60°-80°)	5647.2	23.7			G3/7500
FVH	(80°-90°)	139.2	0.6			G2/225
BL	(0°-30°)	871.7	3.7	B2/1000		
BM	(30°-60°)	1746.2	7.3	B2/2500		
BH	(60°-80°)	1029.4	4.3	B3/2500		G3/2500
BVH	(80°-90°)	40.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	4504.9	4504.9	4504.9	4504.9	4504.9	4504.9	4504.9	4504.9	4504.9	4504.9	4504.9
2.5°	5127.0	5184.0	5152.9	5173.6	5069.9	5002.5	4924.8	4774.4	4691.5	4681.1	4582.6
5°	5878.6	5940.8	5889.0	5873.4	5692.0	5536.5	5360.2	5095.8	4919.6	4888.5	4670.8
7.5°	6630.3	6687.3	6625.1	6578.5	6334.8	6060.1	5800.9	5412.1	5137.3	5085.5	4743.3
10°	7159.1	7210.9	7164.3	7117.6	6863.6	6583.7	6215.6	5707.6	5334.3	5251.4	4790.0
12.5°	7558.2	7589.3	7568.6	7527.1	7288.7	6988.0	6635.5	6039.3	5557.2	5453.5	4862.6
15°	7884.8	7936.7	7910.7	7879.6	7651.6	7350.9	7013.9	6386.7	5816.4	5686.8	4971.4
17.5°	8102.6	8138.8	8144.0	8144.0	7941.9	7646.4	7319.8	6702.9	6075.6	5909.7	5075.1
20°	8201.1	8242.5	8268.4	8309.9	8144.0	7890.0	7558.2	6972.4	6319.3	6132.6	5173.6
22.5°	8247.7	8284.0	8351.4	8444.7	8309.9	8097.4	7791.5	7221.3	6562.9	6365.9	5287.7
25°	8284.0	8330.7	8429.1	8605.4	8512.1	8330.7	8066.3	7506.4	6853.2	6651.0	5453.5
27.5°	8382.5	8439.5	8532.8	8745.4	8631.3	8543.2	8356.6	7812.3	7159.1	6951.7	5655.7
30°	8724.6	8771.3	8766.1	8900.9	8760.9	8735.0	8605.4	8107.7	7454.6	7247.2	5894.2
32.5°	9346.7	9393.4	9279.3	9227.5	8921.6	8926.8	8875.0	8424.0	7807.1	7594.5	6168.9
35°	10015.4	10067.3	9916.9	9828.8	9315.6	9165.3	9191.2	8817.9	8201.1	7988.5	6511.1
37.5°	10611.6	10673.8	10544.2	10414.6	9896.2	9548.9	9543.7	9258.6	8652.1	8434.3	6889.5
40°	10938.2	11010.8	11088.5	11016.0	10471.6	10088.0	9922.1	9709.6	9097.9	8875.0	7299.0
42.5°	11093.7	11295.9	11435.9	11389.2	10943.4	10554.6	10357.6	10181.3	9642.2	9424.5	7786.3
45°	10658.3	10663.4	10958.9	11212.9	11130.0	10870.8	10834.5	10710.1	10264.3	10056.9	8335.8
47.5°	10113.9	10072.5	10279.8	10730.8	10964.1	11031.5	11244.0	11295.9	10974.5	10767.1	8895.7
50°	8807.6	8833.5	9507.4	10155.4	10611.6	11047.1	11534.3	11897.2	11705.4	11508.4	9486.7
52.5°	7164.3	7226.5	7998.9	9424.5	10145.0	10891.5	11705.4	12498.6	12451.9	12265.3	10077.7
55°	5743.8	5842.3	6661.4	8206.2	9548.9	10544.2	11778.0	13048.1	13224.3	13053.3	10658.3
57.5°	4390.8	4494.5	5184.0	6770.3	8786.8	9979.2	11726.2	13530.2	13944.9	13836.0	11192.2
60°	3307.4	3411.1	3851.7	5489.8	7833.0	9346.7	11467.0	13846.4	14592.9	14478.8	11581.0
62.5°	2369.1	2452.0	2778.6	4271.6	6671.8	8595.0	10829.3	13851.6	14961.0	14867.6	11767.6
65°	1705.5	1705.5	1969.9	3048.2	5583.1	7693.0	9865.1	13214.0	14883.2	14857.3	11638.0
67.5°	1228.6	1239.0	1451.5	2130.6	4453.0	6599.2	8615.8	12078.7	14281.9	14411.5	11171.5
70°	870.9	896.8	995.3	1487.8	3364.4	5209.9	7278.3	10590.9	13198.4	13426.5	10269.5
72.5°	673.9	689.5	756.9	1036.8	2457.2	3872.4	5800.9	8932.0	11752.1	12011.3	9040.9
75°	518.4	533.9	585.8	762.0	1762.6	2716.4	4121.3	6931.0	9476.3	9937.7	7262.8
77.5°	378.4	399.2	435.5	554.7	1026.4	1726.3	2498.7	3898.4	5230.6	5448.4	3805.0
80°	176.3	202.2	254.0	357.7	554.7	813.9	886.5	1503.4	2514.2	2628.3	2063.2
82.5°	98.5	124.4	145.2	217.7	279.9	290.3	300.7	378.4	948.7	1047.2	865.7
85°	46.7	62.2	67.4	93.3	93.3	82.9	98.5	72.6	155.5	186.6	181.4
87.5°	0.0	5.2	10.4	25.9	20.7	15.6	15.6	15.6	15.6	20.7	15.6
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°	4504.9	4504.9	4504.9	4504.9	4504.9	4504.9	4504.9	4504.9	4504.9	4504.9	4504.9
2.5°	4536.0	4468.6	4313.1	4178.3	4090.2	4012.4	3908.7	3862.1	3779.1	3794.7	3748.0
5°	4561.9	4437.5	4162.7	3908.7	3722.1	3556.2	3374.8	3271.1	3157.0	3146.7	3110.4
7.5°	4577.5	4385.6	3991.7	3634.0	3348.8	3094.8	2851.2	2716.4	2576.4	2545.3	2514.2
10°	4561.9	4307.9	3815.4	3348.8	2970.4	2654.2	2379.4	2208.4	2063.2	2026.9	1995.8
12.5°	4577.5	4266.4	3649.5	3084.5	2633.5	2275.8	1964.7	1788.5	1653.7	1617.4	1596.7
15°	4613.7	4240.5	3509.6	2846.0	2332.8	1933.6	1627.8	1477.4	1368.6	1332.3	1321.9
17.5°	4644.8	4214.6	3359.2	2612.7	2032.1	1633.0	1368.6	1244.2	1150.8	1114.6	1104.2
20°	4686.3	4178.3	3208.9	2389.8	1767.7	1394.5	1161.2	1052.3	979.8	953.9	948.7
22.5°	4722.6	4152.4	3068.9	2166.9	1524.1	1202.7	1005.7	917.6	865.7	839.8	839.8
25°	4815.9	4162.7	2949.7	1959.5	1342.7	1052.3	886.5	819.1	777.6	762.0	762.0
27.5°	4924.8	4204.2	2856.4	1783.3	1187.1	938.3	803.5	746.5	725.8	705.0	710.2
30°	5080.3	4287.1	2794.2	1638.1	1073.1	850.2	736.1	694.7	673.9	668.7	668.7
32.5°	5277.3	4421.9	2789.0	1544.8	990.1	782.8	689.5	653.2	642.8	637.6	637.6
35°	5510.6	4541.2	2757.9	1503.4	938.3	736.1	653.2	627.3	622.1	622.1	622.1
37.5°	5790.5	4738.2	2737.1	1446.3	912.4	710.2	627.3	606.5	606.5	606.5	606.5
40°	6080.8	4898.9	2706.0	1394.5	902.0	694.7	611.7	585.8	585.8	585.8	585.8
42.5°	6428.1	5132.1	2695.7	1368.6	886.5	684.3	591.0	559.9	565.1	565.1	570.2
45°	6848.0	5396.5	2690.5	1342.7	881.3	673.9	570.2	533.9	539.1	533.9	533.9
47.5°	7273.1	5702.4	2706.0	1327.1	876.1	663.5	554.7	508.0	508.0	502.8	502.8
50°	7718.9	5982.3	2716.4	1311.5	865.7	642.8	528.8	487.3	476.9	466.6	471.7
52.5°	8138.8	6241.5	2721.6	1285.6	834.6	611.7	508.0	461.4	445.8	430.3	435.5
55°	8558.7	6490.3	2732.0	1254.5	793.1	580.6	482.1	435.5	414.7	394.0	394.0
57.5°	8937.2	6708.1	2706.0	1176.8	746.5	549.5	456.2	404.4	373.2	352.5	352.5
60°	9196.4	6863.6	2628.3	1062.7	684.3	513.2	430.3	373.2	337.0	321.4	321.4
62.5°	9320.8	6889.5	2488.3	876.1	606.5	476.9	399.2	342.1	311.0	300.7	300.7
65°	9201.6	6775.5	2270.6	658.4	523.6	435.5	368.1	316.2	285.1	259.2	259.2
67.5°	8786.8	6454.1	1969.9	497.7	445.8	394.0	337.0	290.3	254.0	233.3	233.3
70°	7952.2	5785.3	1524.1	399.2	378.4	342.1	305.9	259.2	228.1	202.2	202.2
72.5°	6858.4	4904.0	1073.1	321.4	321.4	290.3	259.2	228.1	197.0	176.3	176.3
75°	5261.7	3628.8	720.6	259.2	264.4	243.6	212.5	186.6	165.9	150.3	150.3
77.5°	2871.9	1793.7	440.6	191.8	197.0	186.6	165.9	150.3	140.0	124.4	124.4
80°	1394.5	788.0	254.0	134.8	140.0	134.8	124.4	108.9	108.9	98.5	98.5
82.5°	585.8	295.5	134.8	93.3	93.3	82.9	77.8	77.8	77.8	72.6	72.6
85°	145.2	57.0	57.0	51.8	51.8	51.8	46.7	46.7	46.7	36.3	41.5
87.5°	20.7	20.7	20.7	20.7	20.7	20.7	15.6	5.2	0.0	0.0	0.0
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)