

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: P1211260

Luminaire Tested: **ARCH4-220-730-U-T2RE-HSS**

Issue Date: 11/5/2025

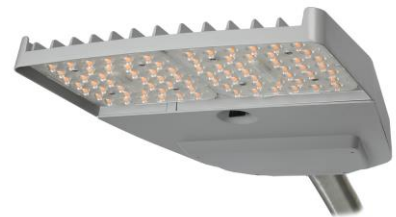
Test Information

Test Method: LM-79-08
Report Number: P1211260
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: ARCH4-220-730-U-T2RE-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 870mA 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: 23302 lumens
Efficiency: N/A
Efficacy: 105.1 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

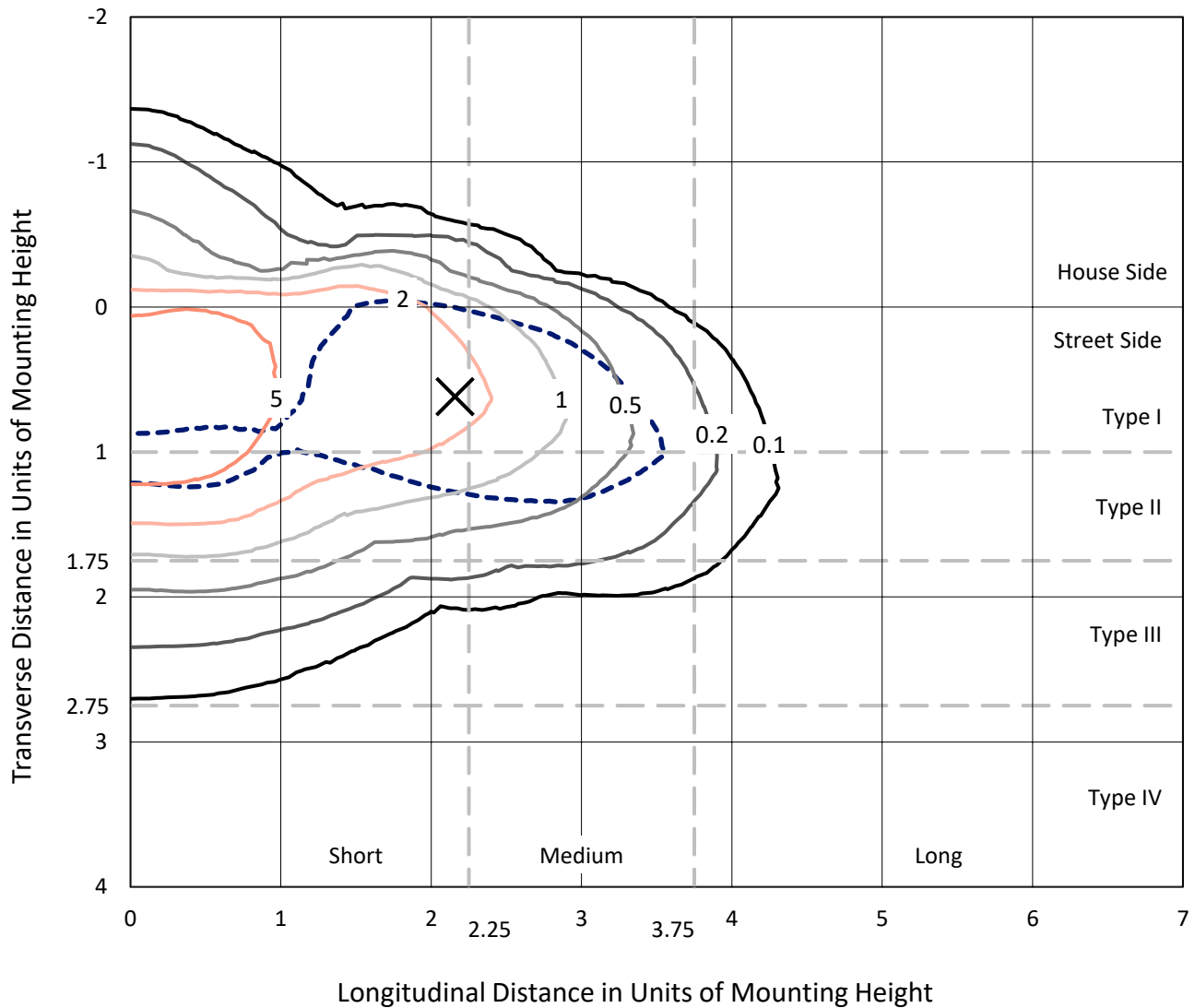
Input Watts (W): 221.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

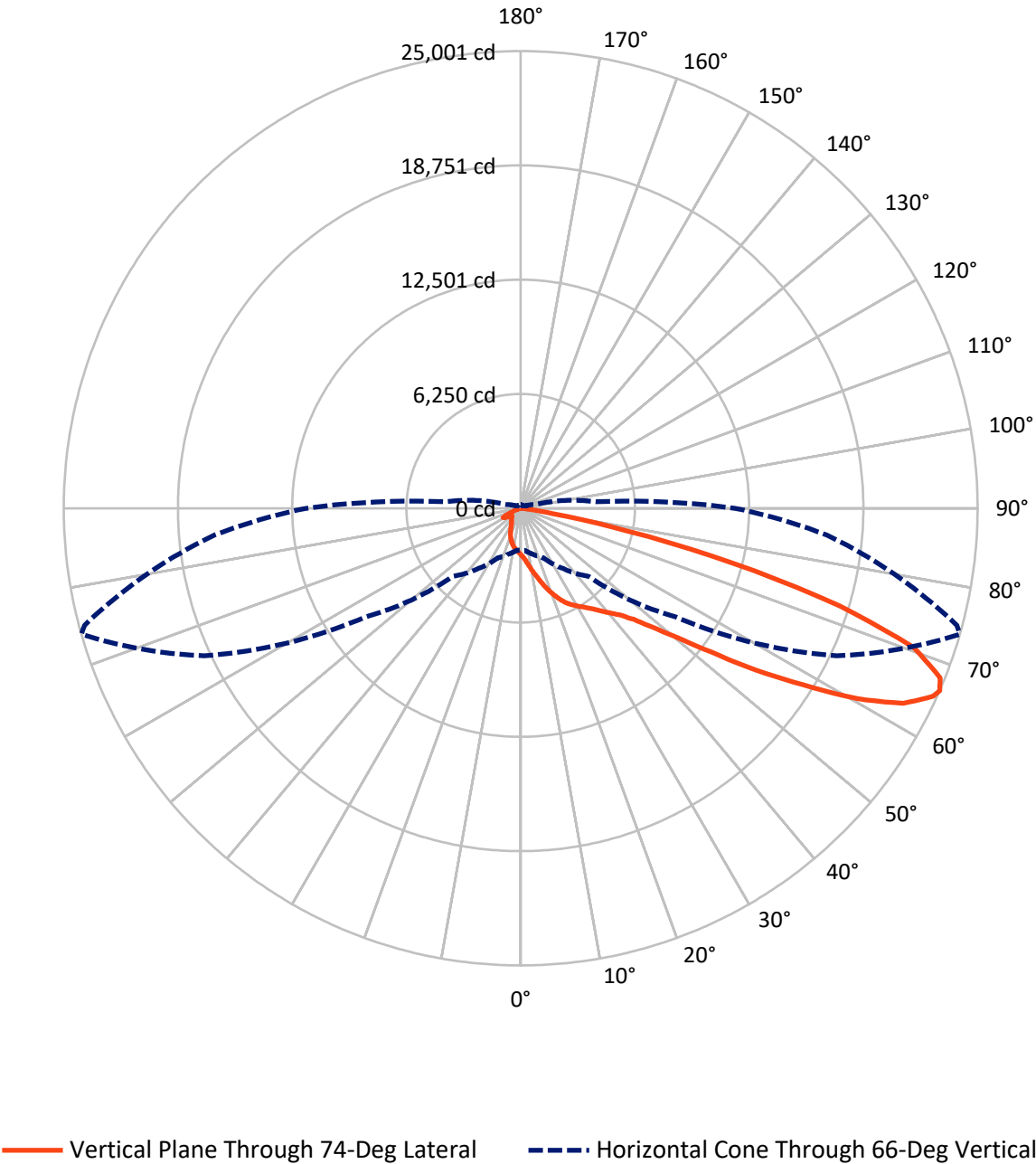
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	2284.3	0.0	2284.3
	% Fixture	9.8	0.0	9.8
Street Side	Lumens	21017.7	0.0	21017.7
	% Fixture	90.2	0.0	90.2
Total	Lumens	23302.0	0.0	23302.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.3	1.1
10°-20°	795.9	3.4
20°-30°	1519.0	6.5
30°-40°	2662.4	11.4
40°-50°	4565.3	19.6
50°-60°	5937.5	25.5
60°-70°	5374.9	23.1
70°-80°	2073.9	8.9
80°-90°	124.8	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°	23302.0	100.0
0°-180°	23302.0	100.0

Coefficient of Utilization



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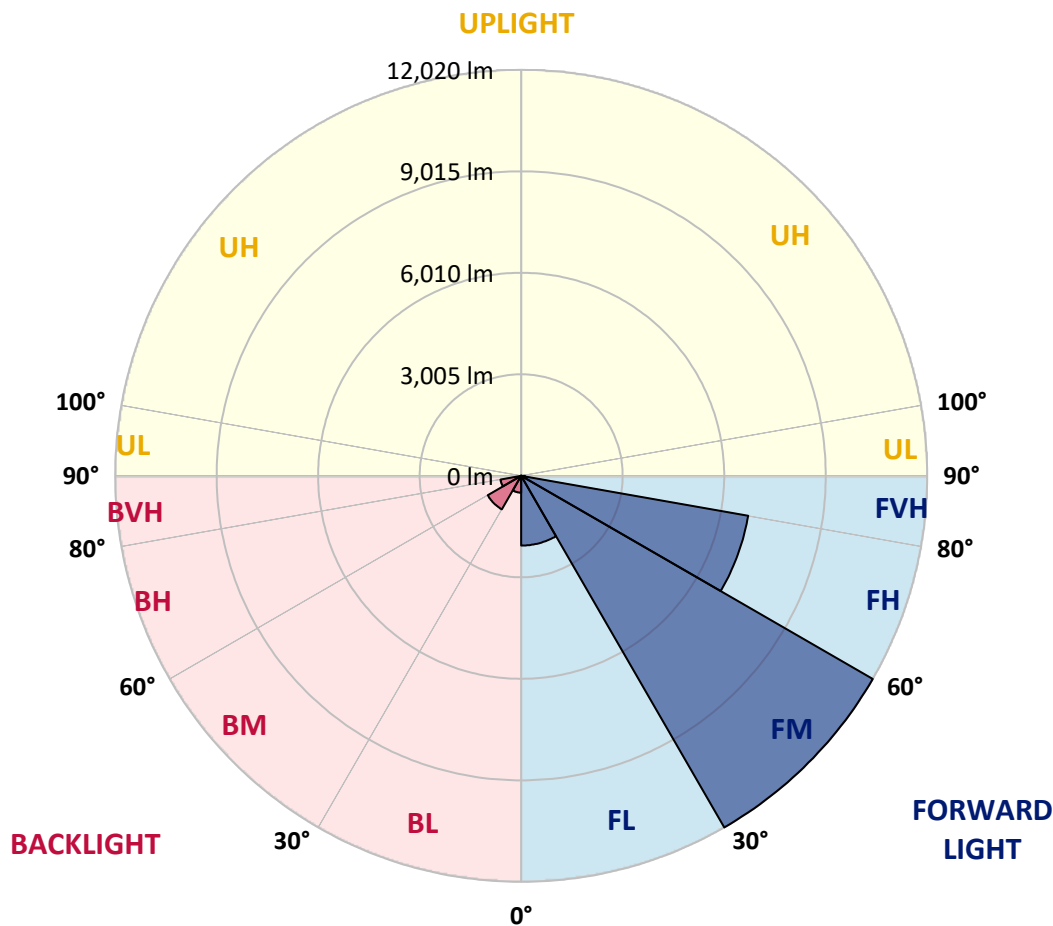
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2064.9	8.9			
FM	(30°-60°)	12020.3	51.6			
FH	(60°-80°)	6824.4	29.3			G3/7500
FVH	(80°-90°)	108.1	0.5			G2/225
BL	(0°-30°)	498.3	2.1	B1/500		
BM	(30°-60°)	1144.8	4.9	B2/2500		
BH	(60°-80°)	624.5	2.7	B2/1000		G2/1000
BVH	(80°-90°)	16.7	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°	2543.6	2543.6	2543.6	2543.6	2543.6	2543.6	2543.6	2543.6	2543.6	2543.6	2543.6
2.5°	3054.0	3028.9	2982.9	2978.7	2941.1	2895.0	2815.5	2731.9	2673.3	2664.9	2593.8
5°	3656.4	3643.9	3597.9	3568.6	3497.5	3388.7	3204.6	3020.5	2865.8	2849.0	2690.0
7.5°	3815.4	3823.8	3832.2	3861.4	3836.3	3786.1	3648.1	3388.7	3146.0	3108.4	2832.3
10°	3840.5	3832.2	3832.2	3869.8	3940.9	4012.1	3995.3	3773.6	3459.8	3413.8	3028.9
12.5°	4112.5	4125.0	4095.7	4079.0	4066.4	4104.1	4229.6	4133.4	3790.3	3752.7	3267.4
15°	4463.9	4459.7	4417.9	4417.9	4380.2	4317.5	4396.9	4468.1	4187.8	4141.7	3539.3
17.5°	4719.1	4735.8	4731.6	4756.7	4744.2	4660.5	4618.7	4765.1	4597.8	4539.2	3848.9
20°	4924.1	4970.1	4986.8	5066.3	5104.0	5045.4	4936.6	5028.7	4991.0	4936.6	4162.7
22.5°	5141.6	5179.3	5208.6	5346.6	5451.2	5438.6	5300.6	5279.7	5371.7	5321.5	4472.2
25°	5359.2	5375.9	5463.8	5631.1	5798.4	5840.3	5698.0	5534.9	5714.8	5668.7	4748.4
27.5°	5597.6	5606.0	5710.6	5915.6	6149.9	6237.7	6124.8	5823.5	5978.3	5978.3	4999.4
30°	6032.7	6116.4	6158.2	6342.3	6547.3	6668.6	6534.7	6128.9	6212.6	6250.3	5262.9
32.5°	6969.8	6982.4	6969.8	7049.3	7091.2	7162.3	7007.5	6472.0	6451.1	6492.9	5522.3
35°	8400.6	8350.4	8216.5	8099.4	7856.8	7722.9	7522.1	6911.3	6743.9	6802.5	5777.5
37.5°	10136.8	10065.7	9760.3	9400.5	8881.7	8346.2	8095.2	7446.8	7116.3	7191.6	6053.6
40°	11793.5	11747.5	11383.5	10940.1	10053.1	9136.9	8605.6	7898.6	7530.4	7559.7	6333.9
42.5°	13157.3	13149.0	12843.6	12379.2	11241.3	9990.4	9208.1	8342.1	7965.5	8011.5	6626.8
45°	14190.7	14111.2	13885.3	13550.6	12391.8	10877.3	9936.0	9015.6	8664.2	8718.6	7066.1
47.5°	14190.7	14203.2	14349.7	14316.2	13195.0	11709.8	10730.9	9864.9	9697.5	9747.7	7789.8
50°	13036.0	13153.2	13805.8	14353.9	13613.4	12358.3	11588.5	10927.5	11099.0	11174.3	9053.3
52.5°	10751.8	10948.4	12082.2	13333.1	13303.8	12684.6	12475.4	12278.8	13048.6	13182.5	10919.1
55°	8170.5	8300.2	9777.0	11421.2	11956.7	12416.9	13249.4	13994.1	15629.8	15600.6	12814.3
57.5°	6103.8	6225.2	7497.0	9321.0	10028.0	11258.0	13646.8	15956.2	18190.2	18303.1	14592.3
60°	4489.0	4581.0	5664.6	7162.3	8183.1	9484.2	13487.9	17889.0	21139.6	21009.9	16161.2
62.5°	3321.8	3372.0	4154.3	5129.1	6484.5	7727.1	12488.0	19211.0	23495.0	23231.4	17035.5
65°	2568.7	2585.5	2991.3	3510.0	4714.9	6007.6	10998.6	19411.8	24796.1	24515.8	17018.8
66°	2288.4	2301.0	2598.0	2999.6	4012.1	5258.8	10346.0	19089.7	25001.1	24704.0	16809.6
67.5°	1920.3	1911.9	2087.6	2351.2	3012.2	4058.1	9187.1	18148.4	24758.4	24607.8	16140.2
70°	1422.4	1426.6	1514.5	1577.2	1761.3	2246.6	6635.2	15742.8	22817.2	22808.9	14303.6
72.5°	1054.3	1066.8	1133.7	1146.3	1100.3	1217.4	3823.8	12521.4	18252.9	18257.1	10693.2
75°	790.7	811.6	832.5	840.9	799.1	769.8	1727.8	8425.7	12006.9	11919.0	6053.6
77.5°	602.4	610.8	627.5	615.0	606.6	531.3	719.6	4108.3	5928.1	5401.0	1962.1
80°	439.3	439.3	456.0	439.3	435.1	380.7	393.3	1317.8	1740.4	1447.5	422.5
82.5°	276.1	271.9	284.5	280.3	271.9	242.6	230.1	368.2	401.6	359.8	205.0
85°	154.8	150.6	146.4	142.2	129.7	108.8	125.5	138.1	184.1	188.3	146.4
87.5°	54.4	54.4	50.2	46.0	37.7	37.7	46.0	46.0	66.9	66.9	75.3
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°	2543.6	2543.6	2543.6	2543.6	2543.6	2543.6	2543.6	2543.6	2543.6	2543.6	2543.6
2.5°	2560.3	2514.3	2447.4	2359.5	2296.8	2234.0	2167.1	2129.4	2075.1	2062.5	2079.2
5°	2606.4	2522.7	2355.4	2171.3	2012.3	1870.1	1736.2	1656.7	1577.2	1547.9	1560.5
7.5°	2702.6	2560.3	2275.9	1978.8	1715.3	1501.9	1342.9	1250.9	1179.8	1150.5	1158.9
10°	2844.8	2627.3	2200.6	1761.3	1422.4	1196.5	1062.6	1004.1	962.2	945.5	949.7
12.5°	3016.4	2723.5	2104.3	1543.7	1171.4	974.8	912.0	899.5	891.1	882.7	886.9
15°	3208.8	2807.2	1991.4	1330.4	974.8	866.0	845.1	840.9	836.7	836.7	836.7
17.5°	3409.6	2882.5	1865.9	1129.6	849.3	799.1	786.5	786.5	786.5	790.7	790.7
20°	3597.9	2941.1	1719.5	949.7	778.1	736.3	727.9	727.9	732.1	736.3	736.3
22.5°	3782.0	2966.2	1547.9	824.2	719.6	681.9	669.4	669.4	669.4	673.6	673.6
25°	3940.9	2966.2	1376.4	744.7	669.4	631.7	615.0	610.8	615.0	615.0	615.0
27.5°	4074.8	2953.6	1209.1	690.3	619.2	581.5	564.8	560.6	569.0	573.2	573.2
30°	4217.0	2936.9	1075.2	640.1	577.3	539.7	522.9	522.9	535.5	552.2	552.2
32.5°	4355.1	2949.4	970.6	598.3	535.5	506.2	489.5	493.7	518.8	543.9	543.9
35°	4501.5	2974.5	907.8	569.0	506.2	476.9	464.4	476.9	502.0	527.1	527.1
37.5°	4648.0	3003.8	870.2	543.9	481.1	451.8	443.5	460.2	489.5	514.6	518.8
40°	4802.7	3028.9	828.3	518.8	464.4	430.9	426.7	443.5	481.1	506.2	510.4
42.5°	4995.2	3079.1	778.1	497.8	447.6	405.8	410.0	422.5	460.2	497.8	502.0
45°	5371.7	3238.1	727.9	476.9	426.7	393.3	384.9	393.3	435.1	476.9	485.3
47.5°	6078.7	3597.9	673.6	456.0	405.8	384.9	351.4	359.8	397.4	443.5	447.6
50°	7434.2	4363.5	644.3	435.1	389.1	355.6	318.0	318.0	347.2	389.1	389.1
52.5°	9546.9	5735.7	661.0	418.4	368.2	326.3	288.7	284.5	301.2	330.5	330.5
55°	11827.0	7241.8	723.8	401.6	343.1	309.6	267.7	246.8	259.4	276.1	276.1
57.5°	13634.3	7999.0	895.3	393.3	313.8	297.0	242.6	213.4	225.9	242.6	242.6
60°	14429.2	7555.5	1087.7	401.6	292.9	276.1	217.5	188.3	209.2	225.9	230.1
62.5°	13784.9	6221.0	1167.2	380.7	263.6	246.8	213.4	175.7	200.8	213.4	217.5
65°	12391.8	4727.4	912.0	330.5	242.6	213.4	192.4	167.3	188.3	200.8	200.8
66°	11730.7	4120.8	778.1	305.4	234.3	200.8	184.1	167.3	184.1	192.4	196.6
67.5°	10705.8	3250.6	577.3	267.7	217.5	184.1	171.5	159.0	175.7	184.1	184.1
70°	8371.3	1937.0	347.2	209.2	188.3	163.2	154.8	146.4	159.0	163.2	163.2
72.5°	5242.0	920.4	221.7	154.8	159.0	154.8	129.7	138.1	142.2	146.4	146.4
75°	2539.4	364.0	150.6	113.0	129.7	146.4	104.6	121.3	125.5	133.9	129.7
77.5°	707.0	175.7	96.2	83.7	113.0	113.0	79.5	96.2	113.0	142.2	129.7
80°	205.0	113.0	62.8	62.8	79.5	79.5	54.4	66.9	75.3	83.7	87.9
82.5°	142.2	75.3	41.8	46.0	46.0	50.2	33.5	33.5	41.8	41.8	46.0
85°	113.0	33.5	25.1	29.3	20.9	25.1	16.7	16.7	20.9	16.7	16.7
87.5°	46.0	16.7	16.7	16.7	12.6	12.6	8.4	4.2	4.2	4.2	4.2
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)