

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: P841597

Luminaire Tested: **ARCH4-200-730-U-T2U-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841597
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: ARCH4-200-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 800mA 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: 21858 lumens
Efficiency: N/A
Efficacy: 107.3 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

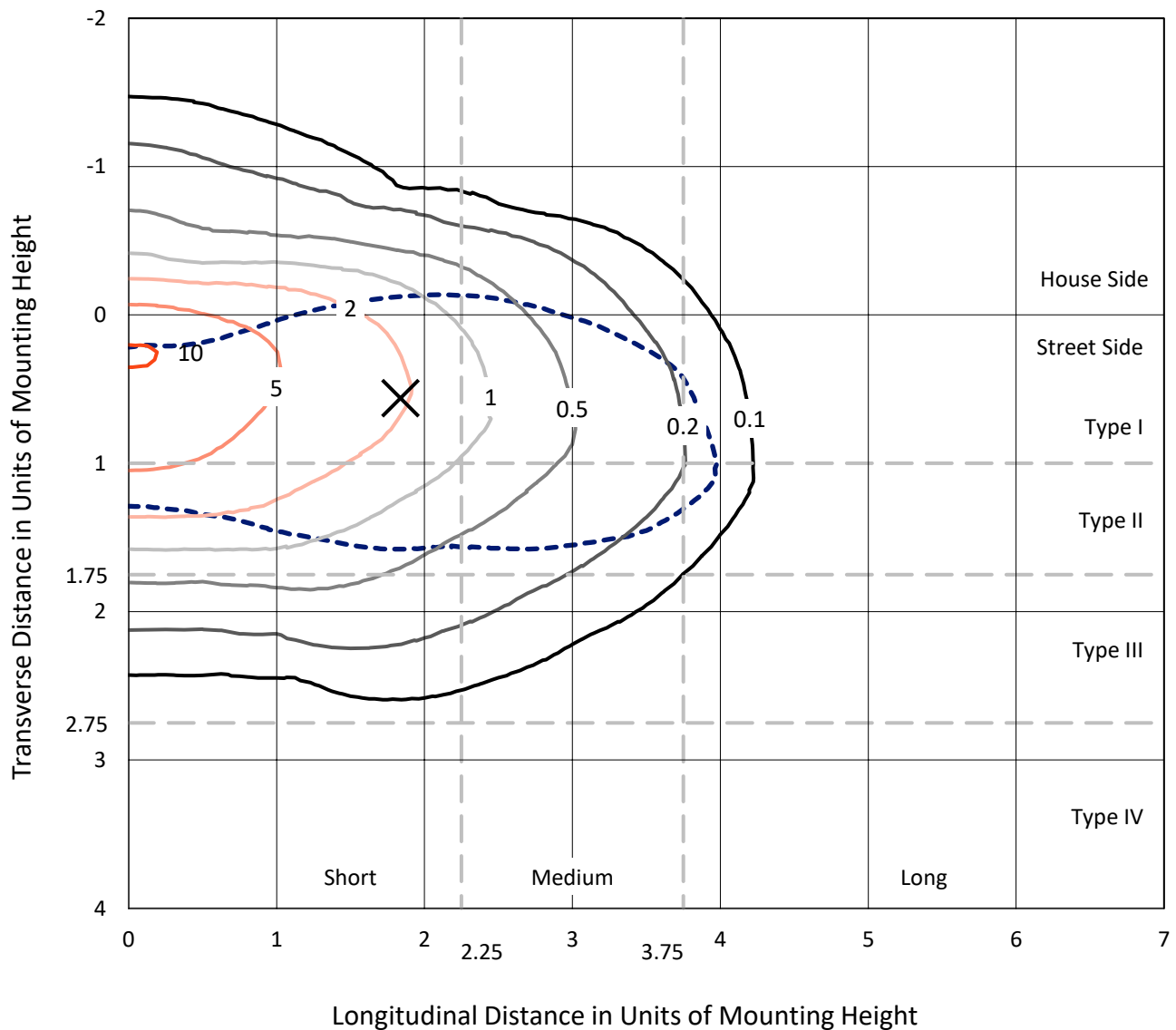
Input Watts (W): 203.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

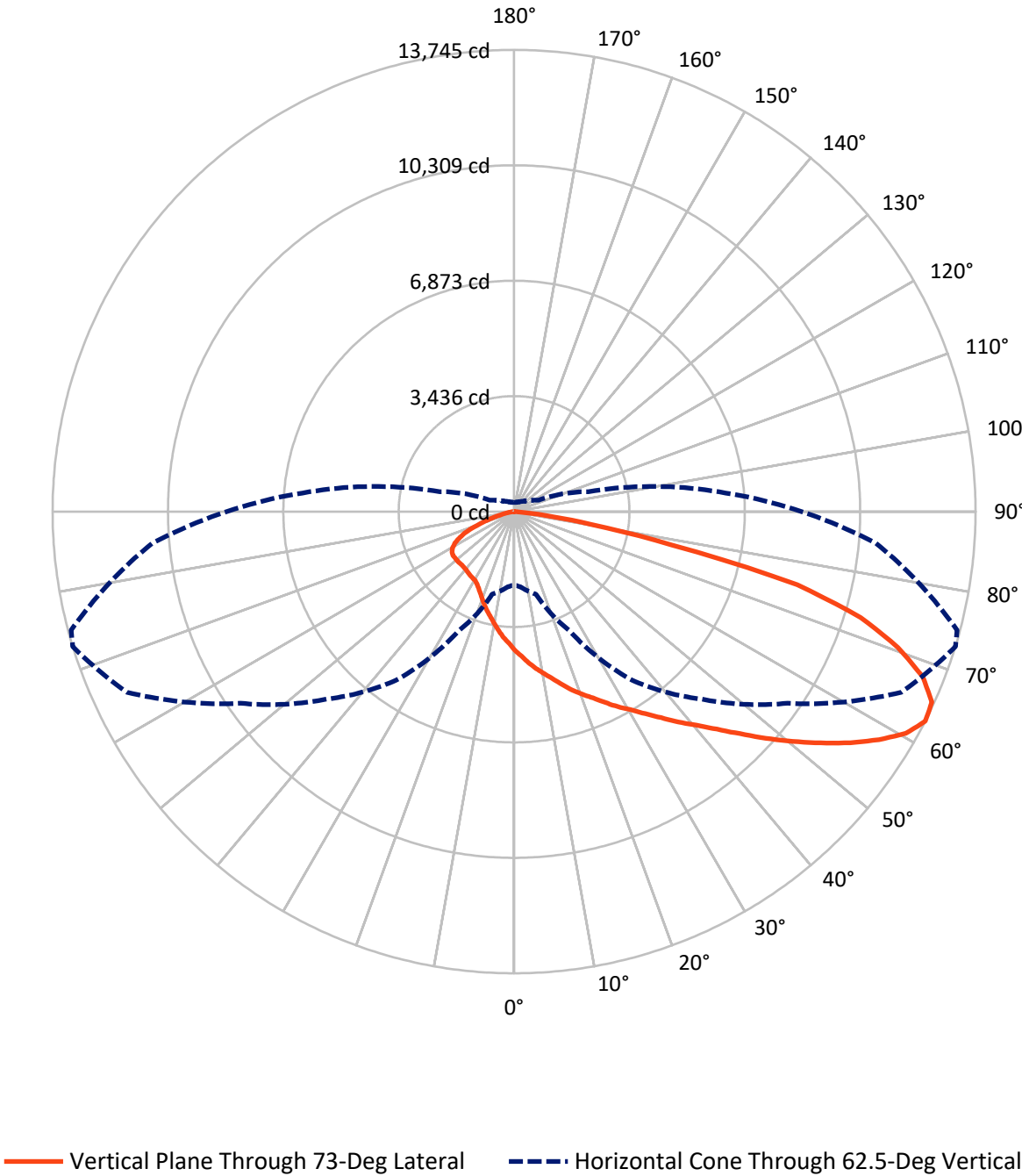
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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	3388.3	0.0	3388.3
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	18469.7	0.0	18469.7
	% Fixture	84.5	0.0	84.5
Total	Lumens	21858.0	0.0	21858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.8	1.8
10°-20°	1206.5	5.5
20°-30°	2008.3	9.2
30°-40°	3030.2	13.9
40°-50°	4235.5	19.4
50°-60°	4678.3	21.4
60°-70°	4075.4	18.6
70°-80°	2058.7	9.4
80°-90°	165.2	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°	21858.0	100.0
0°-180°	21858.0	100.0

Coefficient of Utilization



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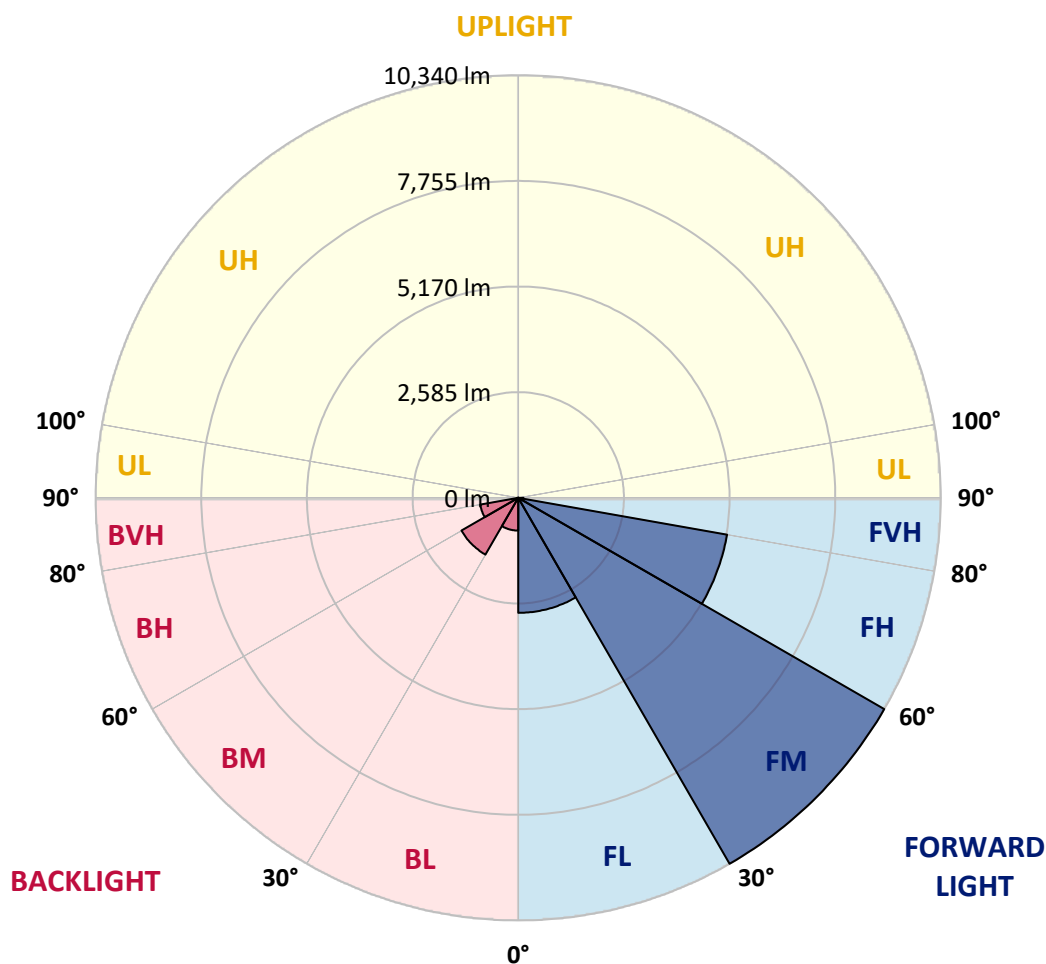
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2813.8	12.9			
FM	(30°-60°)	10339.6	47.3			
FH	(60°-80°)	5188.4	23.7			G3/7500
FVH	(80°-90°)	127.9	0.6			G2/225
BL	(0°-30°)	800.9	3.7	B2/1000		
BM	(30°-60°)	1604.4	7.3	B2/2500		
BH	(60°-80°)	945.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	37.4	0.2			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°	73°	75°	85°
0°	4138.9	4138.9	4138.9	4138.9	4138.9	4138.9	4138.9	4138.9	4138.9	4138.9	4138.9
2.5°	4710.4	4762.8	4734.2	4753.3	4658.0	4596.1	4524.6	4386.5	4310.3	4300.8	4210.3
5°	5401.0	5458.1	5410.5	5396.2	5229.5	5086.7	4924.7	4681.8	4519.9	4491.3	4291.3
7.5°	6091.6	6144.0	6086.8	6044.0	5820.1	5567.7	5329.6	4972.3	4719.9	4672.3	4357.9
10°	6577.4	6625.0	6582.2	6539.3	6305.9	6048.7	5710.6	5243.8	4900.9	4824.7	4400.8
12.5°	6944.1	6972.7	6953.7	6915.6	6696.5	6420.2	6096.4	5548.6	5105.7	5010.4	4467.5
15°	7244.2	7291.8	7268.0	7239.4	7029.9	6753.6	6444.0	5867.7	5343.8	5224.8	4567.5
17.5°	7444.2	7477.6	7482.3	7482.3	7296.6	7025.1	6725.0	6158.3	5582.0	5429.6	4662.8
20°	7534.7	7572.8	7596.6	7634.7	7482.3	7249.0	6944.1	6405.9	5805.8	5634.4	4753.3
22.5°	7577.6	7610.9	7672.8	7758.6	7634.7	7439.5	7158.5	6634.6	6029.7	5848.7	4858.0
25°	7610.9	7653.8	7744.3	7906.2	7820.5	7653.8	7410.9	6896.5	6296.4	6110.7	5010.4
27.5°	7701.4	7753.8	7839.5	8034.8	7930.0	7849.1	7677.6	7177.5	6577.4	6386.9	5196.2
30°	8015.8	8058.6	8053.9	8177.7	8049.1	8025.3	7906.2	7449.0	6848.9	6658.4	5415.3
32.5°	8587.3	8630.2	8525.4	8477.8	8196.7	8201.5	8153.9	7739.5	7172.8	6977.5	5667.7
35°	9201.7	9249.3	9111.2	9030.2	8558.7	8420.6	8444.4	8101.5	7534.7	7339.4	5982.1
37.5°	9749.4	9806.6	9687.5	9568.4	9092.2	8773.0	8768.3	8506.3	7949.1	7749.0	6329.7
40°	10049.5	10116.2	10187.6	10120.9	9620.8	9268.4	9116.0	8920.7	8358.7	8153.9	6706.0
42.5°	10192.4	10378.1	10506.7	10463.8	10054.2	9697.0	9516.0	9354.1	8858.8	8658.7	7153.7
45°	9792.3	9797.0	10068.5	10301.9	10225.7	9987.6	9954.2	9839.9	9430.3	9239.8	7658.6
47.5°	9292.2	9254.1	9444.6	9859.0	10073.3	10135.2	10330.5	10378.1	10082.8	9892.3	8172.9
50°	8092.0	8115.8	8734.9	9330.3	9749.4	10149.5	10597.2	10930.6	10754.4	10573.4	8715.9
52.5°	6582.2	6639.3	7349.0	8658.7	9320.8	10006.6	10754.4	11483.1	11440.2	11268.7	9258.9
55°	5277.2	5367.7	6120.2	7539.5	8773.0	9687.5	10821.0	11987.9	12149.9	11992.7	9792.3
57.5°	4034.1	4129.3	4762.8	6220.2	8072.9	9168.4	10773.4	12430.9	12811.9	12711.9	10282.8
60°	3038.7	3133.9	3538.7	5043.8	7196.6	8587.3	10535.3	12721.4	13407.2	13302.5	10640.1
62.5°	2176.6	2252.8	2552.9	3924.5	6129.7	7896.7	9949.5	12726.2	13745.4	13659.7	10811.5
65°	1567.0	1567.0	1809.9	2800.5	5129.5	7068.0	9063.6	12140.3	13674.0	13650.1	10692.4
67.5°	1128.8	1138.3	1333.6	1957.5	4091.2	6063.0	7915.7	11097.3	13121.5	13240.5	10263.8
70°	800.1	824.0	914.5	1366.9	3091.0	4786.6	6686.9	9730.4	12126.0	12335.6	9435.1
72.5°	619.2	633.5	695.4	952.6	2257.6	3557.8	5329.6	8206.3	10797.2	11035.4	8306.3
75°	476.3	490.6	538.2	700.1	1619.3	2495.7	3786.4	6367.8	8706.4	9130.3	6672.7
77.5°	347.7	366.7	400.1	509.6	943.0	1586.0	2295.7	3581.6	4805.6	5005.7	3495.9
80°	161.9	185.7	233.4	328.6	509.6	747.8	814.4	1381.2	2309.9	2414.7	1895.6
82.5°	90.5	114.3	133.4	200.0	257.2	266.7	276.2	347.7	871.6	962.1	795.4
85°	42.9	57.2	61.9	85.7	85.7	76.2	90.5	66.7	142.9	171.5	166.7
87.5°	0.0	4.8	9.5	23.8	19.1	14.3	14.3	14.3	14.3	19.1	14.3
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°	4138.9	4138.9	4138.9	4138.9	4138.9	4138.9	4138.9	4138.9	4138.9	4138.9	4138.9
2.5°	4167.4	4105.5	3962.6	3838.8	3757.8	3686.4	3591.1	3548.3	3472.1	3486.4	3443.5
5°	4191.2	4076.9	3824.5	3591.1	3419.7	3267.3	3100.6	3005.3	2900.5	2891.0	2857.7
7.5°	4205.5	4029.3	3667.3	3338.7	3076.8	2843.4	2619.5	2495.7	2367.1	2338.5	2309.9
10°	4191.2	3957.9	3505.4	3076.8	2729.1	2438.5	2186.1	2028.9	1895.6	1862.2	1833.7
12.5°	4205.5	3919.8	3353.0	2833.9	2419.5	2090.9	1805.1	1643.2	1519.3	1486.0	1466.9
15°	4238.9	3896.0	3224.4	2614.8	2143.3	1776.5	1495.5	1357.4	1257.4	1224.0	1214.5
17.5°	4267.5	3872.1	3086.3	2400.4	1867.0	1500.3	1257.4	1143.1	1057.3	1024.0	1014.5
20°	4305.6	3838.8	2948.2	2195.6	1624.1	1281.2	1066.9	966.8	900.2	876.4	871.6
22.5°	4338.9	3815.0	2819.6	1990.8	1400.3	1105.0	924.0	843.0	795.4	771.6	771.6
25°	4424.6	3824.5	2710.0	1800.3	1233.6	966.8	814.4	752.5	714.4	700.1	700.1
27.5°	4524.6	3862.6	2624.3	1638.4	1090.7	862.1	738.2	685.8	666.8	647.7	652.5
30°	4667.5	3938.8	2567.1	1505.0	985.9	781.1	676.3	638.2	619.2	614.4	614.4
32.5°	4848.5	4062.7	2562.4	1419.3	909.7	719.2	633.5	600.1	590.6	585.8	585.8
35°	5062.8	4172.2	2533.8	1381.2	862.1	676.3	600.1	576.3	571.5	571.5	571.5
37.5°	5320.0	4353.2	2514.7	1328.8	838.2	652.5	576.3	557.2	557.2	557.2	557.2
40°	5586.7	4500.8	2486.2	1281.2	828.7	638.2	562.0	538.2	538.2	538.2	538.2
42.5°	5905.9	4715.2	2476.6	1257.4	814.4	628.7	543.0	514.4	519.1	519.1	523.9
45°	6291.6	4958.1	2471.9	1233.6	809.7	619.2	523.9	490.6	495.3	490.6	490.6
47.5°	6682.2	5239.1	2486.2	1219.3	804.9	609.6	509.6	466.8	466.8	462.0	462.0
50°	7091.8	5496.3	2495.7	1205.0	795.4	590.6	485.8	447.7	438.2	428.7	433.4
52.5°	7477.6	5734.4	2500.5	1181.2	766.8	562.0	466.8	423.9	409.6	395.3	400.1
55°	7863.4	5963.0	2510.0	1152.6	728.7	533.4	442.9	400.1	381.0	362.0	362.0
57.5°	8211.0	6163.0	2486.2	1081.2	685.8	504.9	419.1	371.5	342.9	323.9	323.9
60°	8449.2	6305.9	2414.7	976.4	628.7	471.5	395.3	342.9	309.6	295.3	295.3
62.5°	8563.5	6329.7	2286.1	804.9	557.2	438.2	366.7	314.3	285.8	276.2	276.2
65°	8453.9	6225.0	2086.1	604.9	481.0	400.1	338.2	290.5	262.0	238.1	238.1
67.5°	8072.9	5929.7	1809.9	457.2	409.6	362.0	309.6	266.7	233.4	214.3	214.3
70°	7306.1	5315.3	1400.3	366.7	347.7	314.3	281.0	238.1	209.6	185.7	185.7
72.5°	6301.2	4505.6	985.9	295.3	295.3	266.7	238.1	209.6	181.0	161.9	161.9
75°	4834.2	3333.9	662.0	238.1	242.9	223.9	195.3	171.5	152.4	138.1	138.1
77.5°	2638.6	1647.9	404.8	176.2	181.0	171.5	152.4	138.1	128.6	114.3	114.3
80°	1281.2	723.9	233.4	123.8	128.6	123.8	114.3	100.0	100.0	90.5	90.5
82.5°	538.2	271.5	123.8	85.7	85.7	76.2	71.4	71.4	71.4	66.7	66.7
85°	133.4	52.4	52.4	47.6	47.6	47.6	42.9	42.9	42.9	33.3	38.1
87.5°	19.1	19.1	19.1	19.1	19.1	19.1	14.3	4.8	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)