

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: P841838

Luminaire Tested: **ARCH4-230-750-U-T2R-HSS**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841838
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-230-750-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 905mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25308 lumens
Efficiency: N/A
Efficacy: 109.5 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

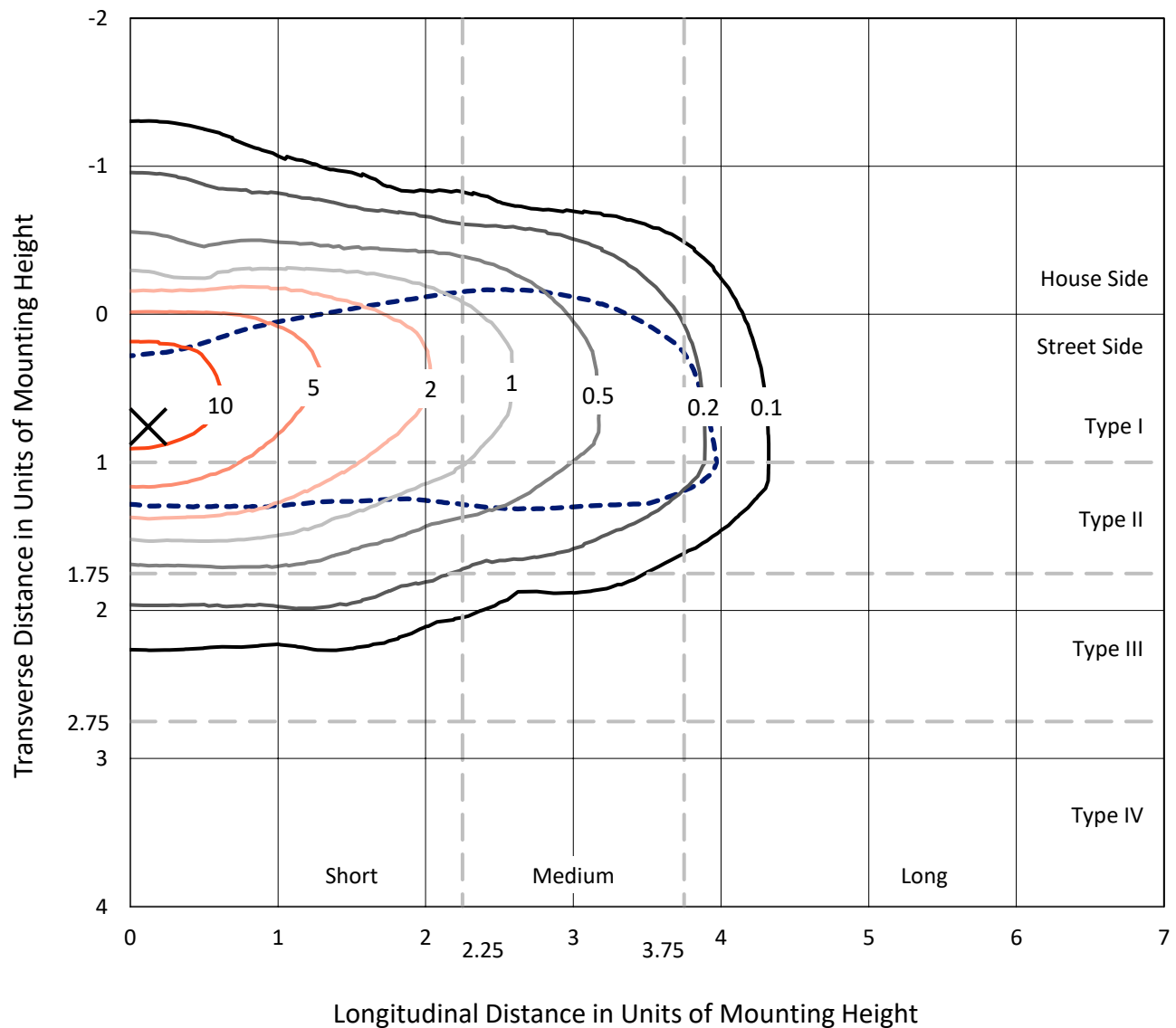
Input Watts (W): 231.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

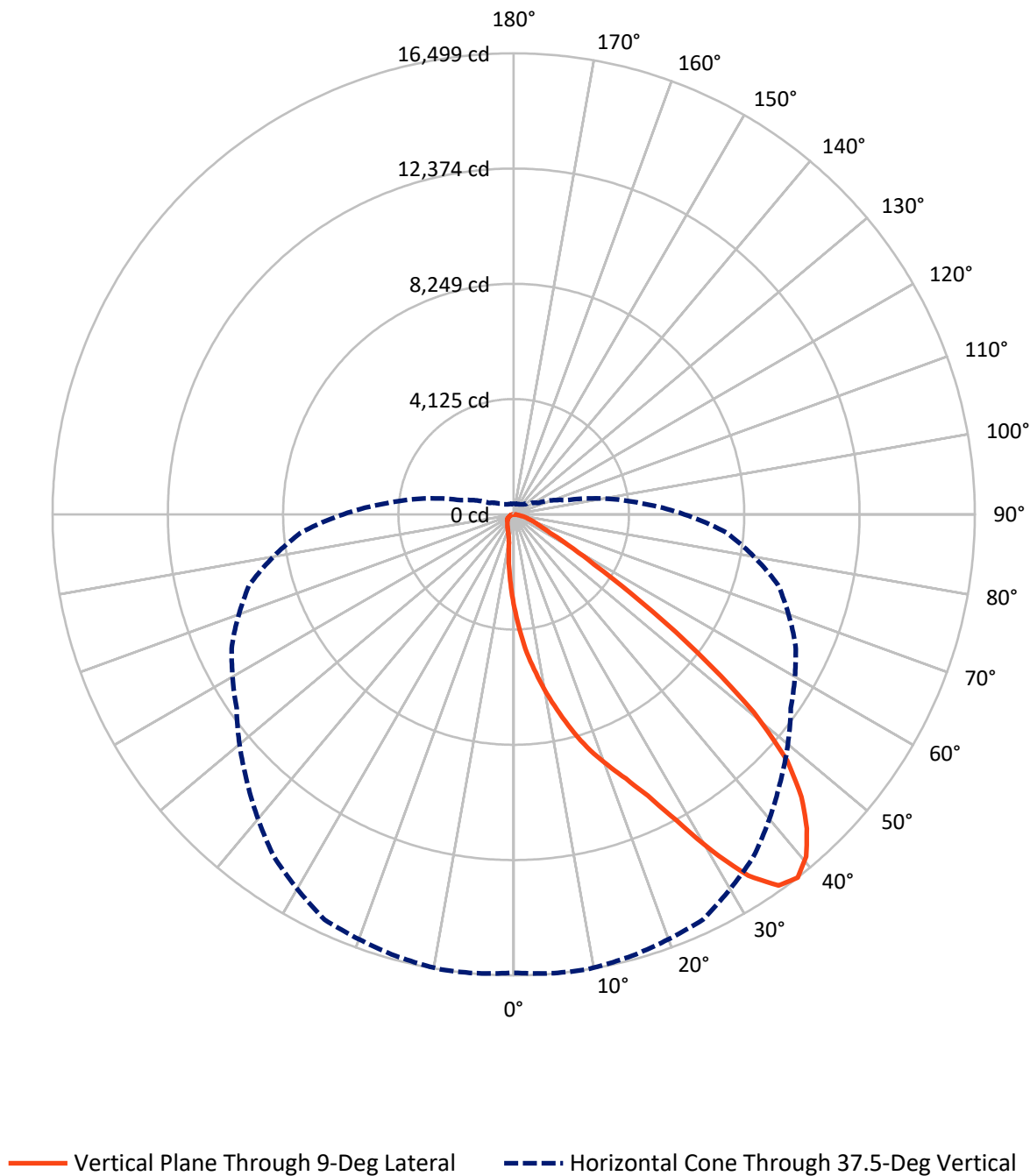
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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	3077.9	0.0	3077.9
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	22230.1	0.0	22230.1
	% Fixture	87.8	0.0	87.8
Total	Lumens	25308.0	0.0	25308.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.3	1.3
10°-20°	1168.7	4.6
20°-30°	2401.5	9.5
30°-40°	4244.8	16.8
40°-50°	5638.9	22.3
50°-60°	5348.1	21.1
60°-70°	4080.2	16.1
70°-80°	1978.1	7.8
80°-90°	111.3	0.4
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°	25308.0	100.0
0°-180°	25308.0	100.0

Coefficient of Utilization



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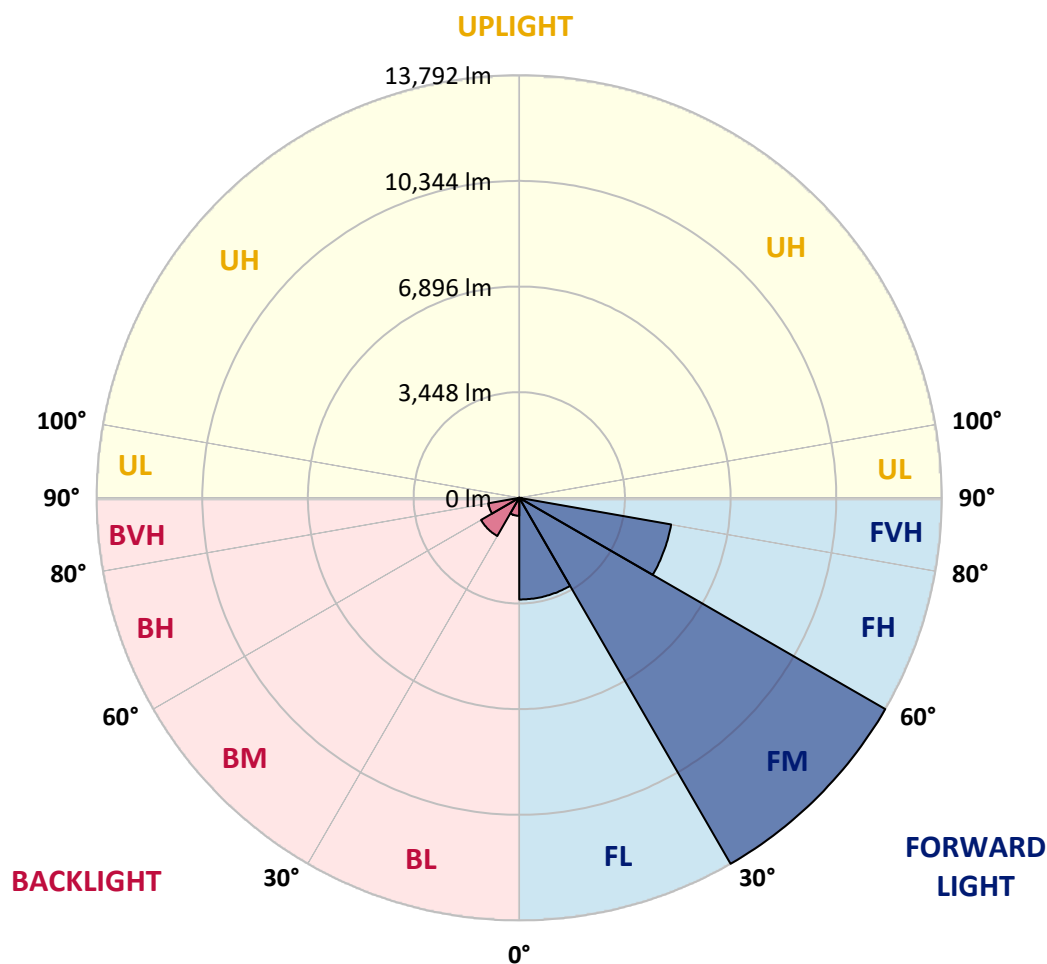
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3319.1	13.1			
FM	(30°-60°)	13791.6	54.5			
FH	(60°-80°)	5031.2	19.9			G3/7500
FVH	(80°-90°)	88.2	0.3			G1/100
BL	(0°-30°)	587.4	2.3	B2/1000		
BM	(30°-60°)	1440.3	5.7	B2/2500		
BH	(60°-80°)	1027.1	4.1	B3/2500		G3/2500
BVH	(80°-90°)	23.2	0.1			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°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4
2.5°	4145.4	4072.7	4155.8	4145.4	4072.7	4025.9	3880.5	3833.7	3662.3	3537.6	3428.5
5°	4997.3	4924.6	4997.3	4976.6	4872.7	4758.4	4519.4	4363.6	4057.1	3787.0	3542.8
7.5°	5703.8	5703.8	5735.0	5740.2	5615.5	5438.9	5142.8	4909.0	4477.9	4062.3	3672.7
10°	6467.4	6472.6	6540.2	6493.4	6327.2	6088.2	5714.2	5418.1	4898.6	4353.2	3797.4
12.5°	7283.0	7288.2	7309.0	7288.2	7090.8	6784.3	6332.4	5942.8	5345.4	4685.7	3968.8
15°	8098.6	8103.8	8129.8	8093.4	7875.2	7516.8	7002.5	6524.6	5818.1	5059.7	4176.6
17.5°	8862.2	8872.6	8893.4	8846.6	8618.1	8192.1	7667.4	7090.8	6322.0	5459.7	4410.3
20°	9547.9	9558.3	9573.9	9511.6	9283.0	8857.0	8290.8	7688.2	6836.3	5870.1	4664.9
22.5°	10238.8	10249.2	10275.2	10192.1	9937.5	9449.2	8893.4	8270.0	7381.7	6322.0	4961.0
25°	11121.9	11132.3	11153.1	11033.6	10685.6	10114.2	9527.1	8888.2	7973.9	6831.1	5324.6
27.5°	12415.4	12405.0	12405.0	12186.9	11589.5	10846.6	10166.1	9516.8	8612.9	7376.5	5724.6
30°	14015.4	13989.4	13973.8	13677.7	12825.8	11672.6	10820.6	10103.8	9225.9	7953.1	6155.8
32.5°	15449.2	15449.2	15418.0	15106.3	14202.4	12784.3	11516.7	10675.2	9818.1	8535.0	6602.5
35°	16295.9	16332.3	16316.7	16082.9	15423.2	13979.0	12457.0	11360.9	10441.4	9142.7	7137.6
37.5°	16410.2	16482.9	16498.5	16358.2	16010.2	14955.7	13501.1	12103.7	11127.1	9797.3	7657.0
40°	15947.8	16103.7	16103.7	16082.9	15958.2	15418.0	14379.0	12966.1	11833.6	10477.8	8181.7
42.5°	15236.2	15397.2	15376.4	15454.3	15423.2	15308.9	14872.5	13771.3	12540.1	11179.1	8659.6
45°	14306.3	14472.5	14431.0	14571.2	14633.6	14758.3	14820.6	14332.3	13236.2	11942.7	9194.7
47.5°	12815.4	13095.9	13158.3	13407.6	13667.4	14057.0	14353.1	14534.9	13885.5	12763.5	9776.5
50°	10612.9	11007.7	11132.3	11657.0	12368.7	13173.9	13651.8	14285.5	14342.7	13605.0	10405.1
52.5°	7599.9	8057.0	8249.2	9111.6	10576.5	11979.1	12841.4	13734.9	14519.3	14410.2	11085.6
55°	4914.2	5303.8	5490.8	6301.2	8249.2	10451.8	11885.6	13023.2	14420.6	15147.9	11864.8
57.5°	3028.5	3251.9	3376.6	4072.7	5864.9	8493.4	10633.6	12368.7	14119.3	15786.8	12675.2
60°	2041.5	2171.4	2233.7	2561.0	3984.4	6348.0	8914.2	11683.0	13724.5	16218.0	13412.8
62.5°	1355.8	1397.4	1459.7	1662.3	2628.5	4457.1	6846.7	10457.0	13428.4	16243.9	13958.3
65°	1049.3	1070.1	1096.1	1184.4	1620.8	3116.8	4815.5	8472.6	12986.8	15693.3	14129.7
67.5°	826.0	846.7	877.9	924.7	1174.0	2114.3	3277.9	6207.7	12083.0	14831.0	13849.2
70°	649.3	664.9	685.7	727.3	914.3	1532.4	2166.2	4124.6	10259.6	14010.2	12966.1
72.5°	514.3	529.9	550.6	592.2	742.8	1122.1	1485.7	2571.4	7911.6	13007.6	11267.4
75°	405.2	415.6	431.2	472.7	597.4	872.7	1007.8	1537.6	5376.6	11173.9	8779.1
77.5°	202.6	249.3	285.7	327.3	436.4	602.6	670.1	851.9	2270.1	5735.0	4187.0
80°	119.5	145.5	155.8	181.8	285.7	363.6	363.6	342.9	716.9	2202.6	1709.1
82.5°	67.5	93.5	98.7	103.9	171.4	207.8	166.2	124.7	145.5	737.7	498.7
85°	20.8	31.2	36.4	41.6	57.1	62.3	57.1	51.9	41.6	72.7	46.8
87.5°	0.0	0.0	0.0	0.0	5.2	10.4	10.4	10.4	15.6	15.6	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°	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4	3345.4
2.5°	3366.2	3298.7	3168.8	3049.3	2935.0	2851.9	2774.0	2701.3	2649.3	2607.8	2602.6
5°	3412.9	3277.9	3028.5	2794.8	2581.8	2405.2	2254.5	2135.0	2046.7	1984.4	1979.2
7.5°	3475.3	3267.5	2888.3	2540.2	2223.3	1968.8	1750.6	1589.6	1475.3	1428.6	1392.2
10°	3527.2	3257.1	2748.0	2285.7	1870.1	1548.0	1288.3	1127.3	1044.1	1013.0	997.4
12.5°	3615.5	3267.5	2628.5	2051.9	1563.6	1184.4	987.0	898.7	862.3	836.4	831.2
15°	3745.4	3314.2	2514.3	1823.4	1251.9	955.8	841.5	784.4	748.0	742.8	737.7
17.5°	3875.3	3355.8	2410.4	1589.6	1038.9	831.2	753.2	706.5	680.5	675.3	675.3
20°	4025.9	3407.7	2296.1	1366.2	888.3	748.0	685.7	649.3	618.2	613.0	613.0
22.5°	4202.5	3480.5	2187.0	1168.8	789.6	685.7	633.8	592.2	566.2	561.0	561.0
25°	4441.5	3589.6	2098.7	1023.4	722.1	633.8	587.0	550.6	529.9	519.5	519.5
27.5°	4706.4	3740.2	2036.3	935.1	675.3	592.2	545.4	514.3	493.5	483.1	483.1
30°	5002.5	3906.4	1994.8	898.7	649.3	555.8	514.3	483.1	457.1	451.9	451.9
32.5°	5329.8	4098.6	1968.8	903.9	644.1	529.9	483.1	451.9	431.2	420.8	420.8
35°	5693.4	4311.6	1953.2	935.1	654.5	509.1	457.1	426.0	405.2	394.8	394.8
37.5°	6098.6	4561.0	1953.2	966.2	680.5	503.9	431.2	400.0	384.4	374.0	374.0
40°	6477.8	4825.9	1974.0	1002.6	706.5	503.9	410.4	384.4	363.6	353.2	353.2
42.5°	6773.9	4976.6	1989.6	1038.9	722.1	498.7	389.6	363.6	348.0	337.7	337.7
45°	7111.6	5137.6	1958.4	1054.5	722.1	488.3	374.0	348.0	332.5	322.1	322.1
47.5°	7485.6	5335.0	1953.2	1064.9	706.5	467.5	358.4	332.5	322.1	311.7	311.7
50°	7864.8	5553.2	1963.6	1059.7	685.7	436.4	337.7	322.1	306.5	296.1	296.1
52.5°	8296.0	5781.7	1984.4	1049.3	639.0	400.0	322.1	306.5	290.9	280.5	275.3
55°	8773.9	6031.1	2025.9	1028.6	576.6	363.6	306.5	290.9	270.1	259.7	254.5
57.5°	9324.6	6337.6	2072.7	987.0	509.1	332.5	290.9	270.1	239.0	223.4	218.2
60°	9849.2	6685.6	2124.6	888.3	441.6	301.3	275.3	244.2	213.0	202.6	197.4
62.5°	10342.7	7028.5	2150.6	711.7	374.0	275.3	259.7	223.4	192.2	181.8	176.6
65°	10659.6	7402.5	2093.5	483.1	306.5	254.5	239.0	207.8	176.6	161.0	161.0
67.5°	10680.4	7579.1	1896.1	316.9	249.3	228.6	218.2	187.0	155.8	145.5	140.3
70°	10155.7	7314.2	1449.3	249.3	207.8	197.4	197.4	166.2	135.1	124.7	119.5
72.5°	8950.5	6477.8	924.7	202.6	176.6	166.2	166.2	140.3	119.5	103.9	98.7
75°	7064.8	4997.3	493.5	166.2	145.5	140.3	129.9	114.3	98.7	88.3	83.1
77.5°	3246.7	2202.6	228.6	119.5	109.1	109.1	98.7	83.1	77.9	67.5	67.5
80°	1283.1	748.0	114.3	77.9	72.7	72.7	72.7	57.1	57.1	46.8	41.6
82.5°	353.2	155.8	57.1	46.8	46.8	46.8	41.6	36.4	36.4	31.2	31.2
85°	36.4	26.0	26.0	26.0	26.0	20.8	20.8	15.6	10.4	10.4	10.4
87.5°	15.6	15.6	15.6	15.6	15.6	10.4	5.2	0.0	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)