

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: P1211227

Luminaire Tested: **ARCH4-210-727-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-210-727-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 835mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30242 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

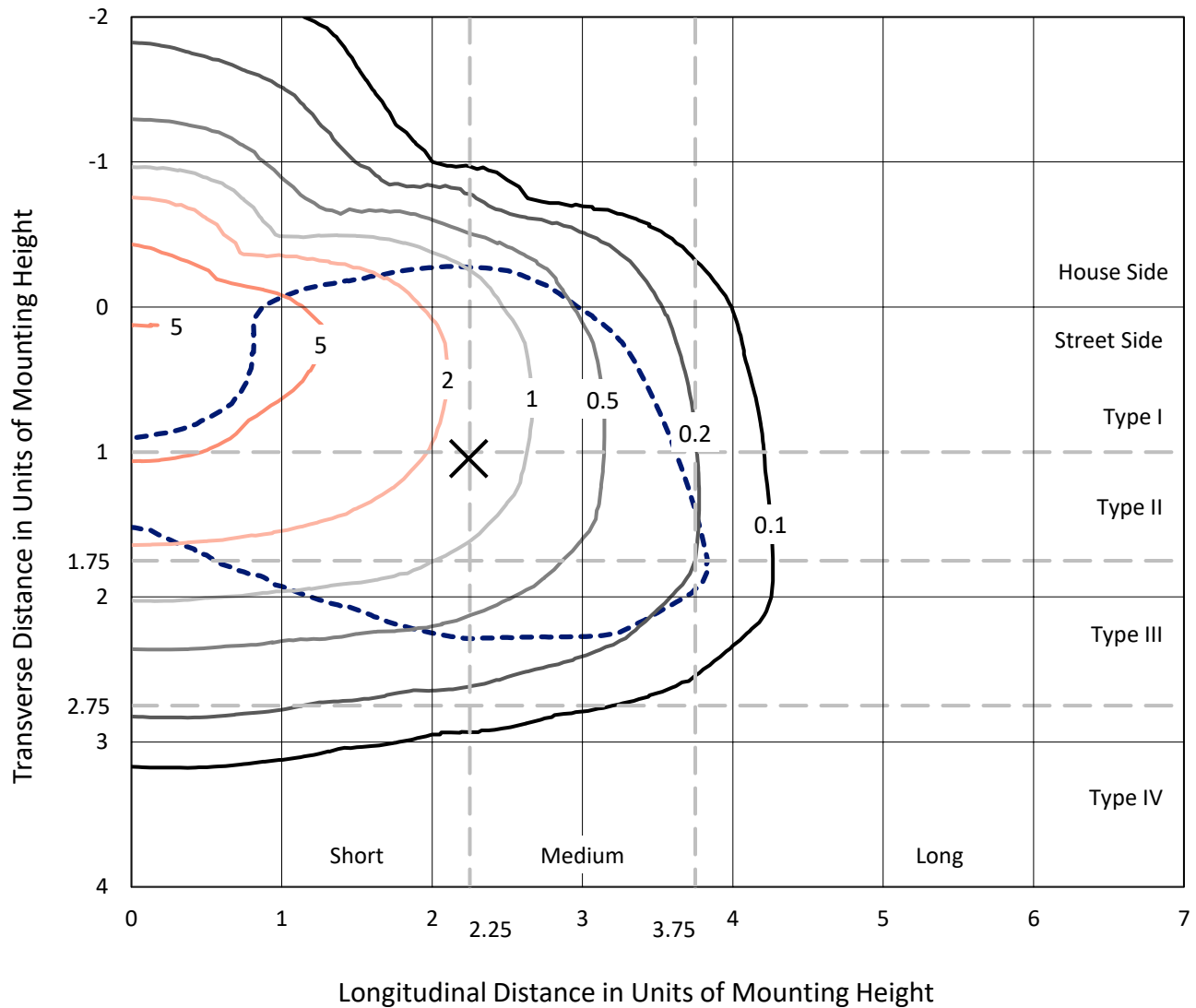


REPORT NUMBER: P1211227

CATALOG NUMBER: ARCH4-210-727-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

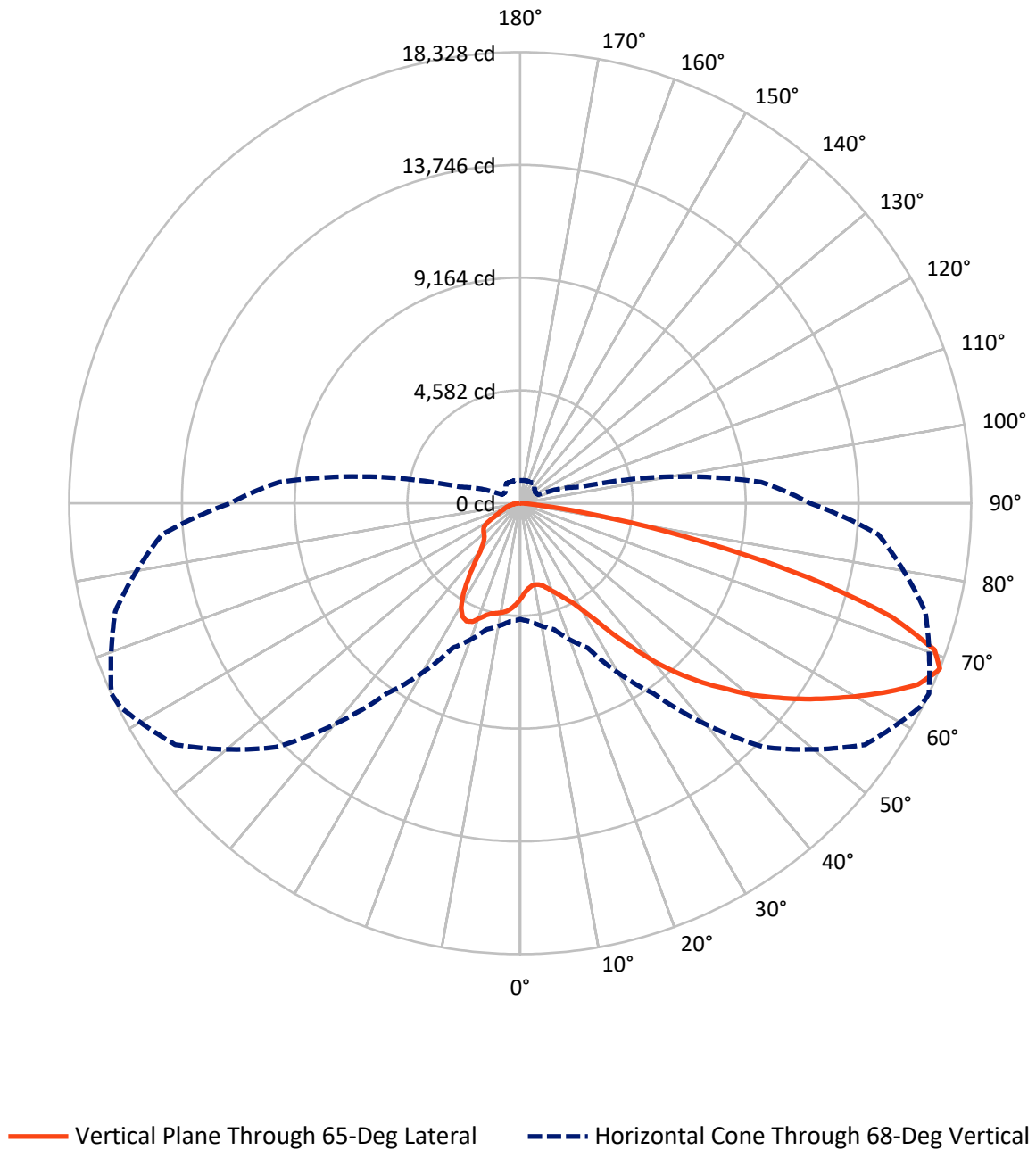


Based on 25 foot mounting height. Maximum calculated value = 7 fc
Type III - Short - N/A

REPORT NUMBER: P1211227

CATALOG NUMBER: ARCH4-210-727-U-T3RE

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7414.5	0.0	7414.5
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	22827.6	0.0	22827.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	30242.0	0.0	30242.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.3	1.2
10°-20°	1202.6	4.0
20°-30°	2176.5	7.2
30°-40°	3423.9	11.3
40°-50°	5099.5	16.9
50°-60°	6689.6	22.1
60°-70°	7315.4	24.2
70°-80°	3619.9	12.0
80°-90°	345.3	1.1
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°	30242.0	100.0
0°-180°	30242.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211227

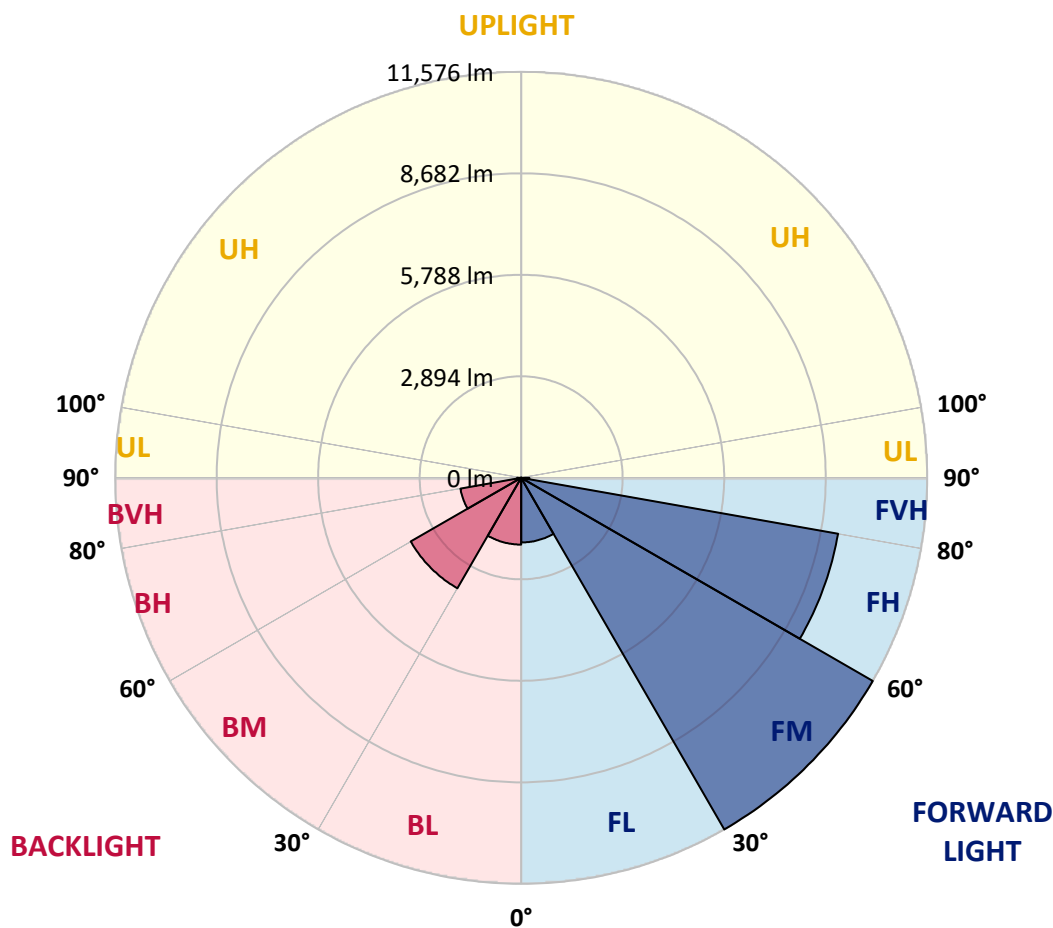
CATALOG NUMBER: ARCH4-210-727-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1843.6	6.1			
FM	(30°-60°)	11576.2	38.3			
FH	(60°-80°)	9175.5	30.3			G4/12000
FVH	(80°-90°)	232.2	0.8			G3/500
BL	(0°-30°)	1904.8	6.3	B3/2500		
BM	(30°-60°)	3636.7	12.0	B3/5000		
BH	(60°-80°)	1759.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	113.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



REPORT NUMBER: P1211227

CATALOG NUMBER: ARCH4-210-727-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3864.6	3864.6	3864.6	3864.6	3864.6	3864.6	3864.6	3864.6	3864.6	3864.6	3864.6
2.5°	3373.2	3365.4	3384.9	3404.4	3447.3	3498.0	3568.2	3626.7	3634.5	3743.7	3829.5
5°	3174.3	3162.6	3182.1	3205.5	3225.0	3287.4	3361.5	3447.3	3482.4	3642.3	3825.6
7.5°	3193.8	3189.9	3197.7	3189.9	3189.9	3217.2	3267.9	3353.7	3392.7	3583.8	3845.1
10°	3306.9	3314.7	3318.6	3295.2	3271.8	3260.1	3275.7	3334.2	3361.5	3587.7	3930.9
12.5°	3494.1	3505.8	3509.7	3466.8	3435.6	3384.9	3357.6	3381.0	3400.5	3626.7	4051.7
15°	3747.6	3755.4	3728.1	3700.8	3622.8	3560.4	3494.1	3474.6	3482.4	3708.6	4188.2
17.5°	4043.9	4032.2	4032.2	3966.0	3864.6	3767.1	3657.9	3642.3	3642.3	3841.2	4383.2
20°	4367.6	4379.3	4344.2	4254.5	4153.1	4001.0	3891.9	3821.7	3829.5	3993.2	4621.1
22.5°	4835.6	4855.1	4761.5	4632.8	4476.8	4301.3	4145.3	4032.2	4036.1	4192.1	4866.8
25°	5338.6	5346.4	5287.9	5116.3	4905.8	4656.2	4449.5	4305.2	4301.3	4414.4	5182.6
27.5°	5853.4	5888.5	5771.5	5607.7	5412.7	5100.8	4827.8	4632.8	4601.6	4753.7	5576.5
30°	6383.7	6426.6	6313.5	6153.7	5911.9	5646.7	5323.0	5096.9	5077.4	5280.1	6103.0
32.5°	6918.0	6929.7	6840.0	6707.4	6489.0	6239.5	5978.2	5728.6	5709.1	6040.6	6785.4
35°	7354.8	7389.8	7327.5	7296.3	7136.4	6906.3	6652.8	6508.5	6559.2	6984.3	7670.6
37.5°	7881.2	7916.3	7846.1	7838.3	7787.6	7588.7	7413.2	7424.9	7475.6	8052.8	8602.6
40°	8641.6	8680.6	8501.3	8423.3	8423.3	8228.3	8169.8	8446.7	8513.0	9105.7	9573.7
42.5°	9285.1	9347.5	9242.2	9191.5	9039.4	8902.9	8973.1	9363.1	9476.2	10111.8	10419.9
45°	9597.1	9643.9	9768.6	9916.8	9768.6	9530.8	9795.9	10236.6	10396.5	11039.9	11266.1
47.5°	9764.7	9807.6	9951.9	10349.7	10451.1	10252.2	10626.6	11176.4	11285.6	11960.2	12073.3
50°	9788.1	9924.6	10111.8	10509.6	10973.6	11000.9	11461.1	12131.8	12260.5	12865.0	12783.1
52.5°	9597.1	9651.7	10037.7	10708.5	11223.2	11691.2	12369.7	13048.3	13141.8	13715.1	13410.9
55°	9285.1	9363.1	9749.1	10661.7	11465.0	12346.3	13293.9	13949.1	14054.4	14541.8	13992.0
57.5°	9004.3	9043.3	9456.7	10525.2	11706.8	13001.5	14116.8	14888.9	14959.1	15267.2	14420.9
60°	8692.3	8735.2	9148.6	10232.7	11886.2	13496.7	14974.7	15836.5	15898.9	16031.5	14920.1
62.5°	7885.1	7998.2	8516.9	9749.1	11839.4	14062.2	15891.1	16772.4	16850.4	16706.1	15314.0
65°	6403.2	6563.1	7198.8	8653.3	11402.6	14428.7	16639.8	17634.2	17766.8	17213.1	15419.2
67.5°	4972.1	5085.2	5596.0	6867.3	9870.0	14245.4	17123.4	18227.0	18266.0	17131.2	14834.3
68°	4714.7	4827.8	5315.2	6492.9	9445.0	14027.1	17111.7	18242.6	18328.4	17041.5	14608.1
70°	3607.2	3735.9	4199.9	5143.6	7612.1	12638.8	16398.1	17868.2	17856.5	15957.4	13204.2
72.5°	2254.0	2328.1	2647.9	3244.5	5034.5	9616.6	13917.9	15758.5	15789.7	13009.3	10127.4
75°	1431.2	1431.2	1415.6	1571.6	2581.6	5479.0	10345.8	12131.8	12155.2	9109.6	6383.7
77.5°	1244.0	1208.9	1041.2	881.3	1029.5	2129.2	6122.5	7834.4	7705.7	4905.8	3030.0
80°	1049.0	990.5	854.0	709.7	662.9	666.8	2351.5	3977.6	3806.1	1766.5	1006.1
82.5°	756.5	705.8	643.4	557.7	510.9	397.8	491.4	1150.4	1123.1	510.9	327.6
85°	409.5	370.5	362.7	366.6	308.1	245.7	206.7	253.5	253.5	222.3	187.2
87.5°	144.3	105.3	124.8	140.4	120.9	101.4	81.9	97.5	101.4	97.5	89.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P1211227

CATALOG NUMBER: ARCH4-210-727-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3864.6	3864.6	3864.6	3864.6	3864.6	3864.6	3864.6	3864.6	3864.6	3864.6	3864.6
2.5°	3880.2	3919.2	4012.7	4094.6	4153.1	4203.8	4231.1	4242.8	4270.1	4274.0	4266.2
5°	3911.4	4012.7	4153.1	4274.0	4340.3	4367.6	4375.4	4379.3	4367.6	4375.4	4367.6
7.5°	3993.2	4121.9	4320.8	4426.1	4437.8	4394.9	4398.8	4383.2	4398.8	4414.4	4414.4
10°	4118.0	4281.8	4469.0	4508.0	4457.3	4433.9	4480.7	4574.3	4605.5	4648.4	4648.4
12.5°	4281.8	4476.8	4609.4	4574.3	4527.5	4605.5	4742.0	4835.6	4866.8	4882.4	4870.7
15°	4469.0	4679.6	4745.9	4628.9	4714.7	4882.4	4929.2	4874.6	4796.6	4761.5	4781.0
17.5°	4706.9	4882.4	4843.4	4765.4	4960.4	4983.8	4831.7	4656.2	4531.4	4484.6	4515.8
20°	4956.5	5108.6	4929.2	4964.3	5085.2	4835.6	4547.0	4320.8	4211.6	4192.1	4223.3
22.5°	5221.6	5319.1	5015.0	5194.3	5015.0	4508.0	4160.9	4043.9	4016.6	4047.8	4075.1
25°	5521.9	5510.2	5163.1	5264.5	4753.7	4106.3	3899.7	3891.9	3891.9	3911.4	3950.4
27.5°	5861.2	5677.9	5311.3	5170.9	4301.3	3774.9	3735.9	3739.8	3728.1	3732.0	3751.5
30°	6255.0	5904.1	5475.1	4862.9	3794.4	3525.3	3509.7	3498.0	3470.7	3462.9	3470.7
32.5°	6750.3	6142.0	5642.8	4355.9	3349.8	3267.9	3260.1	3197.7	3131.4	3123.6	3150.9
35°	7378.2	6574.8	5728.6	3720.3	2983.2	2979.3	2952.0	2854.5	2768.8	2768.8	2749.3
37.5°	8095.7	7132.5	5763.7	3100.2	2679.1	2698.6	2620.6	2495.8	2429.5	2390.5	2402.2
40°	8828.8	7768.1	5759.8	2558.2	2413.9	2417.8	2359.3	2207.2	2043.4	1945.9	1969.3
42.5°	9534.7	8345.3	5658.4	2269.6	2199.4	2187.7	2140.9	1934.2	1797.7	1719.7	1723.6
45°	10100.1	8941.9	5502.4	2098.0	2004.4	2023.9	1918.6	1793.8	1669.1	1598.9	1595.0
47.5°	10665.6	9394.3	5252.8	1992.7	1860.1	1825.0	1782.1	1696.4	1602.8	1524.8	1528.7
50°	11180.3	9780.3	5018.9	1922.5	1727.5	1637.9	1645.7	1595.0	1513.1	1442.9	1439.0
52.5°	11543.0	10033.8	4890.2	1883.5	1567.7	1470.2	1497.5	1470.2	1392.2	1341.5	1337.6
55°	11905.7	10228.8	4933.1	1832.8	1392.2	1314.2	1361.0	1353.2	1310.3	1294.7	1298.6
57.5°	12198.1	10377.0	5085.2	1739.2	1224.5	1177.7	1255.7	1232.3	1201.1	1205.0	1205.0
60°	12482.8	10568.1	5264.5	1524.8	1080.2	1084.1	1158.2	1115.3	1095.8	1130.9	1134.8
62.5°	12779.2	10774.8	5116.3	1212.8	955.4	982.7	1068.5	1033.4	1041.2	1091.9	1107.5
65°	12744.1	10755.3	4168.7	994.4	846.2	900.8	1029.5	1017.8	1021.7	1041.2	1049.0
67.5°	12026.5	10068.9	2866.2	846.2	768.2	834.5	998.3	951.5	955.4	943.7	947.6
68°	11784.8	9827.1	2527.0	822.8	752.6	818.9	982.7	939.8	943.7	932.0	928.1
70°	10466.7	8415.5	1598.9	725.3	698.0	776.0	904.7	889.1	885.2	877.4	877.4
72.5°	7978.7	6212.2	842.3	627.8	635.6	709.7	807.2	838.4	818.9	822.8	846.2
75°	5284.0	3735.9	584.9	538.2	557.7	608.3	717.5	779.9	760.4	772.1	760.4
77.5°	2796.1	2012.2	468.0	456.3	456.3	491.4	592.7	690.2	690.2	682.4	670.7
80°	916.4	709.7	374.4	358.8	366.6	386.1	475.8	565.5	577.1	561.6	553.8
82.5°	308.1	327.6	280.8	261.3	269.1	284.7	358.8	432.9	436.8	405.6	397.8
85°	191.1	218.4	175.5	171.6	171.6	175.5	218.4	237.9	218.4	195.0	202.8
87.5°	89.7	109.2	81.9	70.2	58.5	50.7	39.0	15.6	15.6	7.8	7.8
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)