

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: P836381

Luminaire Tested: **ARCH3-180-722-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-180-722-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 1375mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21099 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 180.5
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

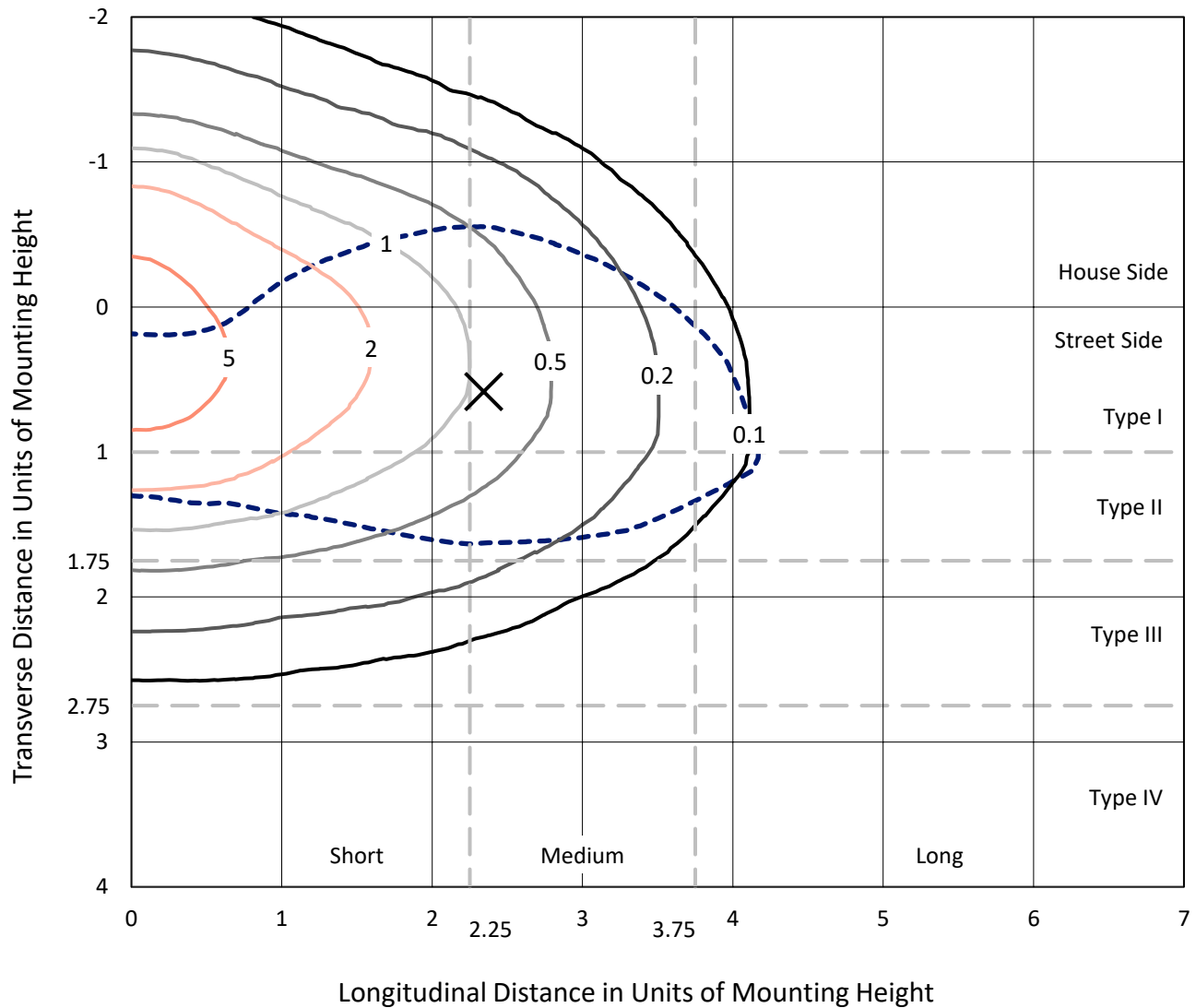


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Iso-Footcandle Lines of Horizontal Illumination

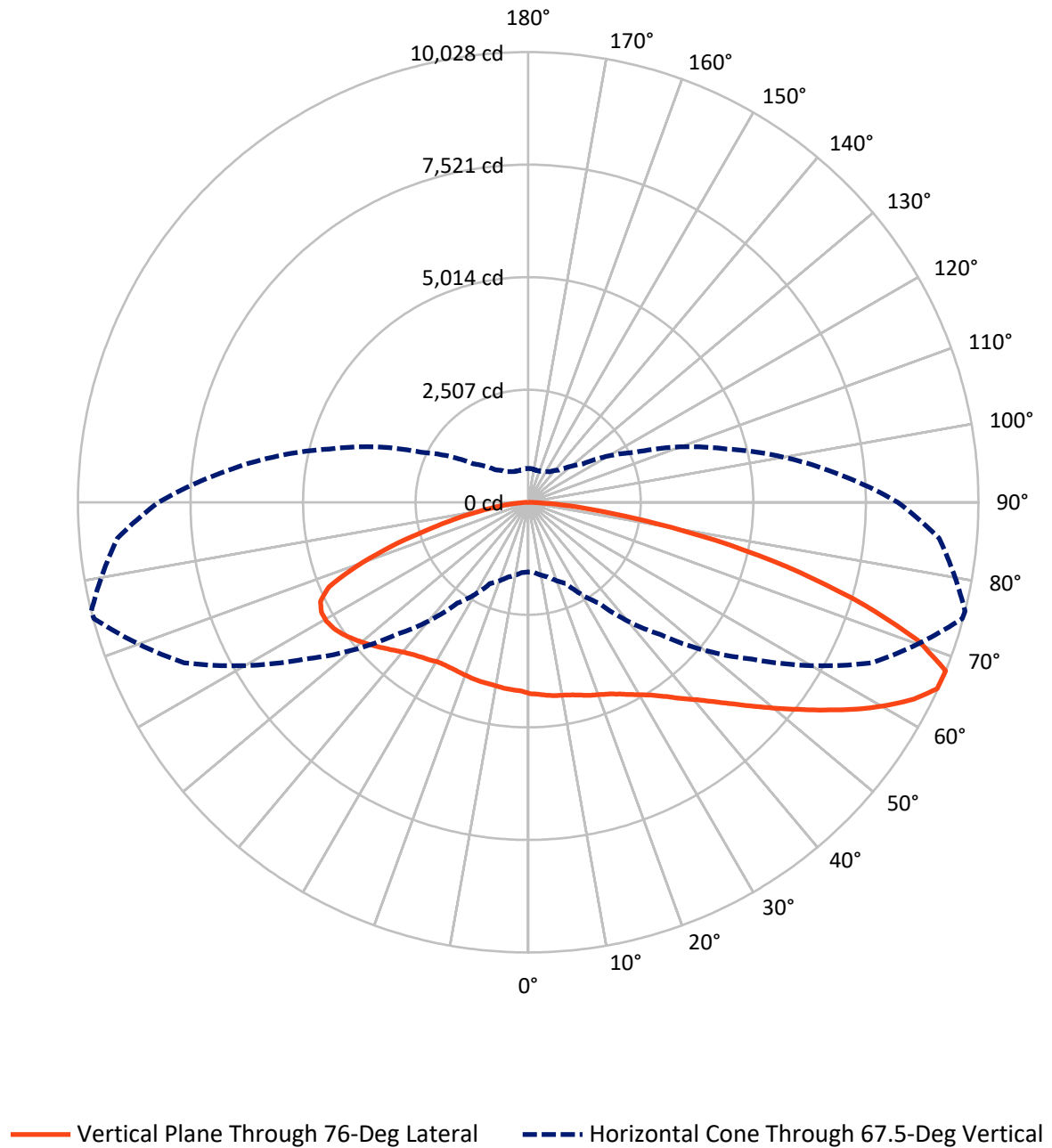
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7129.5	0.0	7129.5
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	13969.5	0.0	13969.5
	% Fixture	66.2	0.0	66.2
Total	Lumens	21099.0	0.0	21099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.0	1.9
10°-20°	1256.4	6.0
20°-30°	2134.7	10.1
30°-40°	3037.4	14.4
40°-50°	3836.1	18.2
50°-60°	4153.3	19.7
60°-70°	3863.0	18.3
70°-80°	2074.8	9.8
80°-90°	332.5	1.6
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°	21099.0	100.0
0°-180°	21099.0	100.0

Coefficient of Utilization



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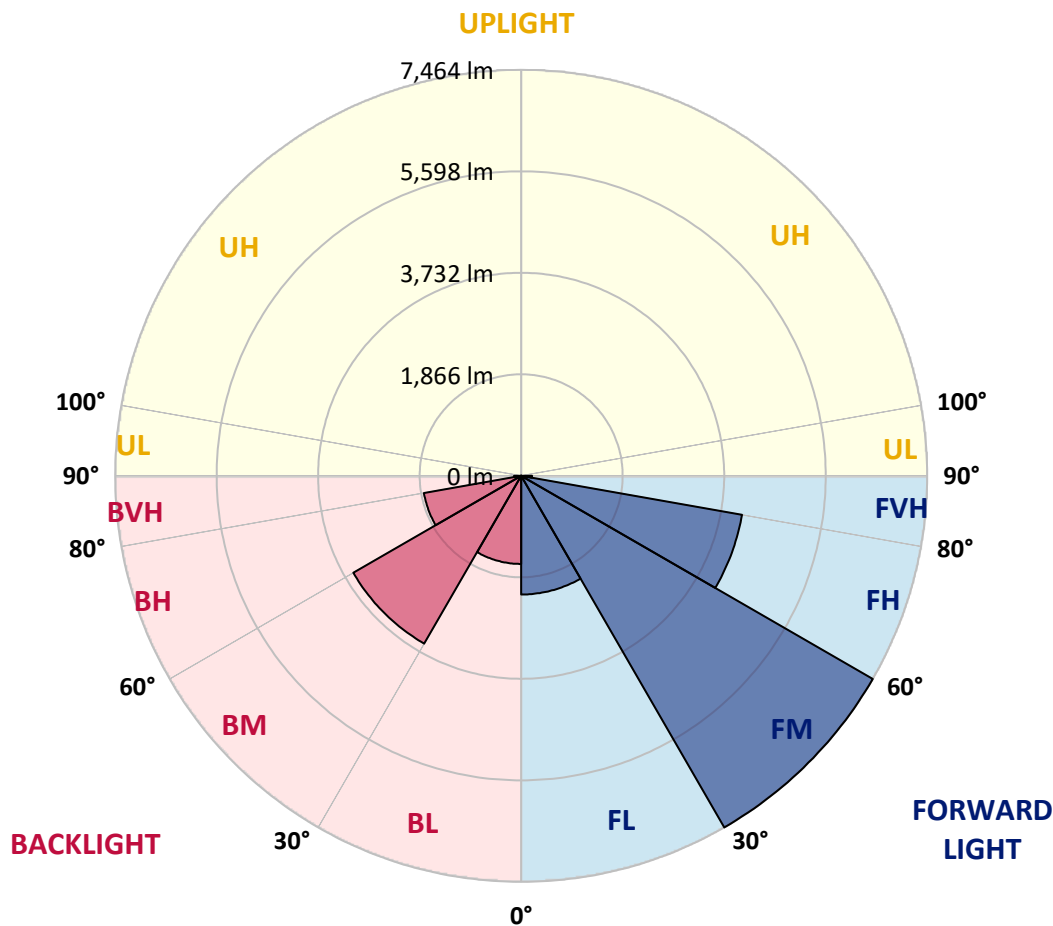
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2181.9	10.3			
FM	(30°-60°)	7464.0	35.4			
FH	(60°-80°)	4122.5	19.5			G2/5000
FVH	(80°-90°)	201.1	1.0			G2/225
BL	(0°-30°)	1620.2	7.7	B3/2500		
BM	(30°-60°)	3562.7	16.9	B3/5000		
BH	(60°-80°)	1815.2	8.6	B3/2500		G3/2500
BVH	(80°-90°)	131.4	0.6			G2/225
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4262.0	4262.0	4262.0	4262.0	4262.0	4262.0	4262.0	4262.0	4262.0	4262.0	4262.0
2.5°	4391.2	4383.4	4352.0	4356.0	4356.0	4352.0	4305.0	4285.5	4285.5	4281.5	4238.4
5°	4547.9	4536.2	4500.9	4493.1	4477.4	4457.8	4383.4	4340.3	4320.7	4316.8	4258.0
7.5°	4732.0	4716.4	4673.3	4649.8	4610.6	4559.7	4465.6	4399.1	4352.0	4348.1	4265.9
10°	4916.1	4900.5	4849.5	4806.4	4751.6	4669.3	4547.9	4450.0	4375.6	4367.7	4269.8
12.5°	5135.5	5119.8	5057.2	5002.3	4920.0	4810.4	4649.8	4516.6	4414.7	4403.0	4281.5
15°	5366.6	5343.1	5280.4	5217.8	5115.9	4974.9	4782.9	4606.7	4477.4	4457.8	4316.8
17.5°	5558.6	5527.2	5476.3	5413.6	5300.0	5135.5	4916.1	4696.8	4536.2	4520.5	4352.0
20°	5723.1	5699.6	5644.7	5586.0	5464.5	5284.3	5041.5	4786.9	4591.0	4571.4	4379.5
22.5°	5879.8	5848.4	5817.1	5774.0	5640.8	5441.0	5186.4	4896.5	4661.5	4638.0	4414.7
25°	6060.0	6024.7	6013.0	5989.5	5832.8	5629.1	5362.7	5033.6	4759.4	4732.0	4477.4
27.5°	6283.2	6244.1	6220.6	6220.6	6032.5	5821.0	5550.7	5194.3	4873.0	4849.5	4555.7
30°	6518.3	6471.3	6436.0	6436.0	6224.5	6013.0	5734.8	5354.9	5002.3	4974.9	4657.6
32.5°	6725.9	6678.9	6639.7	6635.8	6416.4	6204.9	5926.8	5531.1	5159.0	5123.7	4782.9
35°	6886.5	6843.4	6808.2	6816.0	6608.4	6400.8	6142.2	5766.2	5354.9	5315.7	4947.5
37.5°	6984.4	6968.8	6949.2	6976.6	6784.7	6588.8	6365.5	5993.4	5578.1	5542.9	5151.2
40°	7035.4	7023.6	7101.9	7137.2	6933.5	6757.2	6588.8	6228.4	5821.0	5781.8	5386.2
42.5°	7109.8	7207.7	7239.0	7231.2	7043.2	6886.5	6792.5	6483.0	6107.0	6071.7	5668.2
45°	6843.4	6819.9	6992.3	7086.3	7051.0	6968.8	6984.4	6788.6	6439.9	6404.7	5993.4
47.5°	6486.9	6455.6	6553.5	6784.7	6921.8	7000.1	7156.8	7105.9	6823.8	6792.5	6373.3
50°	5734.8	5777.9	6142.2	6451.7	6722.0	6992.3	7301.7	7446.7	7246.9	7215.5	6780.7
52.5°	4900.5	4943.6	5323.5	6036.5	6479.1	6933.5	7407.5	7787.5	7705.2	7669.9	7215.5
55°	4293.3	4387.3	4818.2	5335.3	6134.4	6749.4	7470.2	8136.1	8198.8	8167.4	7689.5
57.5°	3690.0	3760.5	4085.7	4544.0	5664.3	6428.2	7466.2	8461.2	8715.8	8684.5	8171.4
60°	2981.0	3071.1	3329.6	3823.2	5037.6	6044.3	7356.6	8715.8	9213.3	9189.8	8637.5
62.5°	2495.3	2522.7	2706.8	3133.8	4230.6	5558.6	7109.8	8853.0	9663.8	9648.1	9056.6
65°	2009.5	2013.5	2181.9	2538.4	3451.1	4955.3	6690.6	8802.0	10004.6	10012.5	9358.3
67.5°	1551.2	1570.8	1723.6	1993.9	2742.1	4171.9	6091.3	8457.3	10008.5	10028.1	9185.9
70°	1073.3	1089.0	1320.1	1582.6	2119.2	3325.7	5280.4	7544.6	9185.9	9201.6	8234.0
72.5°	756.0	763.9	1010.6	1265.3	1657.0	2507.0	3983.8	6240.2	7830.6	7842.3	6925.7
75°	564.1	571.9	712.9	959.7	1269.2	1735.3	2722.5	4779.0	6255.8	6255.8	5468.5
77.5°	399.6	403.5	462.2	662.0	846.1	1171.3	1637.4	3129.9	4591.0	4598.8	3983.8
80°	270.3	274.2	301.6	446.6	528.8	634.6	889.2	1641.3	2894.8	2906.6	2530.5
82.5°	141.0	148.9	168.4	227.2	266.4	352.6	458.3	834.4	1602.1	1633.5	1519.9
85°	54.8	54.8	62.7	74.4	97.9	137.1	211.5	317.3	724.7	748.2	669.8
87.5°	19.6	19.6	23.5	23.5	27.4	31.3	35.3	47.0	82.3	82.3	78.3
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°	4262.0	4262.0	4262.0	4262.0	4262.0	4262.0	4262.0	4262.0	4262.0	4262.0	4262.0
2.5°	4222.8	4222.8	4203.2	4211.0	4207.1	4199.3	4191.4	4203.2	4191.4	4164.0	4160.1
5°	4230.6	4222.8	4191.4	4187.5	4175.8	4160.1	4140.5	4148.4	4128.8	4105.3	4101.3
7.5°	4234.5	4218.9	4175.8	4160.1	4136.6	4105.3	4073.9	4073.9	4046.5	4023.0	4019.1
10°	4226.7	4207.1	4148.4	4117.0	4073.9	4026.9	3983.8	3972.1	3940.7	3913.3	3913.3
12.5°	4230.6	4203.2	4128.8	4077.8	4019.1	3960.3	3905.5	3889.8	3862.4	3835.0	3831.1
15°	4254.1	4214.9	4120.9	4054.3	3968.2	3901.6	3842.8	3831.1	3807.6	3788.0	3788.0
17.5°	4277.6	4226.7	4109.2	4015.2	3909.4	3835.0	3780.1	3780.1	3764.5	3752.7	3752.7
20°	4289.4	4230.6	4085.7	3960.3	3838.9	3760.5	3709.6	3717.5	3713.5	3709.6	3709.6
22.5°	4316.8	4238.4	4066.1	3909.4	3764.5	3682.2	3635.2	3646.9	3643.0	3643.0	3646.9
25°	4359.9	4258.0	4050.4	3862.4	3694.0	3603.9	3552.9	3560.8	3560.8	3560.8	3560.8
27.5°	4418.6	4297.2	4046.5	3819.3	3623.4	3521.6	3458.9	3458.9	3443.2	3447.2	3451.1
30°	4508.7	4371.6	4054.3	3780.1	3549.0	3419.7	3345.3	3333.6	3329.6	3337.5	3341.4
32.5°	4618.4	4473.5	4101.3	3752.7	3470.7	3306.1	3212.1	3208.2	3196.5	3196.5	3196.5
35°	4755.5	4571.4	4144.4	3748.8	3392.3	3184.7	3082.9	3071.1	3043.7	3031.9	3031.9
37.5°	4931.8	4724.2	4195.4	3721.4	3325.7	3067.2	2945.8	2906.6	2875.3	2871.3	2871.3
40°	5147.2	4896.5	4269.8	3690.0	3255.2	2945.8	2785.2	2718.6	2722.5	2738.1	2738.1
42.5°	5401.9	5108.1	4363.8	3674.4	3153.4	2820.4	2597.1	2518.8	2546.2	2561.9	2565.8
45°	5699.6	5358.8	4469.6	3654.8	3059.4	2679.4	2397.3	2299.4	2311.2	2315.1	2319.0
47.5°	6044.3	5636.9	4579.2	3639.1	2953.6	2503.1	2178.0	2048.7	2044.8	2021.3	2029.1
50°	6404.7	5930.7	4692.8	3611.7	2824.3	2295.5	1946.9	1794.1	1762.8	1727.5	1731.4
52.5°	6788.6	6232.3	4798.6	3568.6	2663.7	2084.0	1727.5	1563.0	1500.3	1461.1	1469.0
55°	7211.6	6541.8	4900.5	3502.0	2495.3	1872.4	1531.6	1363.2	1284.9	1253.5	1257.4
57.5°	7599.4	6839.5	4974.9	3419.7	2311.2	1680.5	1359.3	1194.8	1143.8	1139.9	1143.8
60°	7975.5	7090.2	5006.2	3306.1	2123.1	1504.2	1198.7	1073.3	1038.1	1057.7	1061.6
62.5°	8292.8	7250.8	4990.6	3153.4	1931.2	1335.8	1069.4	979.3	955.8	995.0	998.9
65°	8476.9	7301.7	4880.9	2934.0	1723.6	1171.3	948.0	850.0	838.3	861.8	873.5
67.5°	8234.0	6984.4	4583.2	2632.4	1492.5	1018.5	830.5	752.1	732.5	752.1	752.1
70°	7297.8	6052.1	3878.1	2154.5	1237.8	869.6	720.8	665.9	650.3	665.9	662.0
72.5°	6079.5	5033.6	3055.4	1680.5	975.4	732.5	626.8	575.8	560.2	544.5	536.7
75°	4716.4	3823.2	2217.2	1233.9	736.4	587.6	524.9	477.9	438.7	454.4	446.6
77.5°	3455.0	2683.3	1570.8	854.0	528.8	454.4	411.3	376.1	348.6	380.0	376.1
80°	2225.0	1735.3	1049.8	571.9	364.3	317.3	301.6	282.0	309.5	403.5	411.3
82.5°	1359.3	1100.7	626.8	372.1	239.0	211.5	195.9	195.9	317.3	348.6	352.6
85°	607.2	583.7	340.8	191.9	133.2	121.4	109.7	141.0	129.3	94.0	97.9
87.5°	97.9	101.8	74.4	66.6	50.9	50.9	39.2	27.4	19.6	11.8	11.8
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)