

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: P400439

Luminaire Tested: **ARCH-L-PA3-280-740-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400439
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-280-740-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35818 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

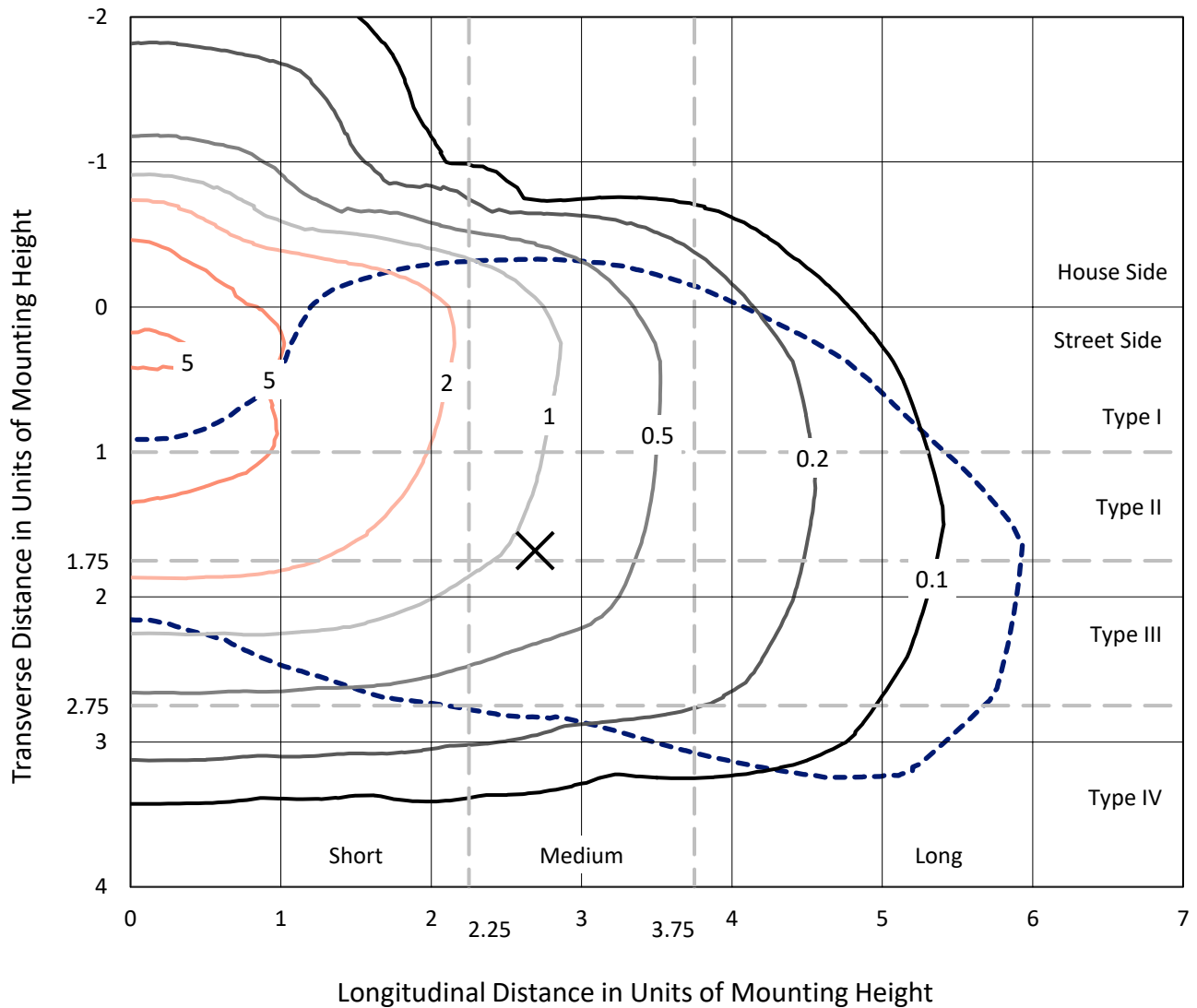
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

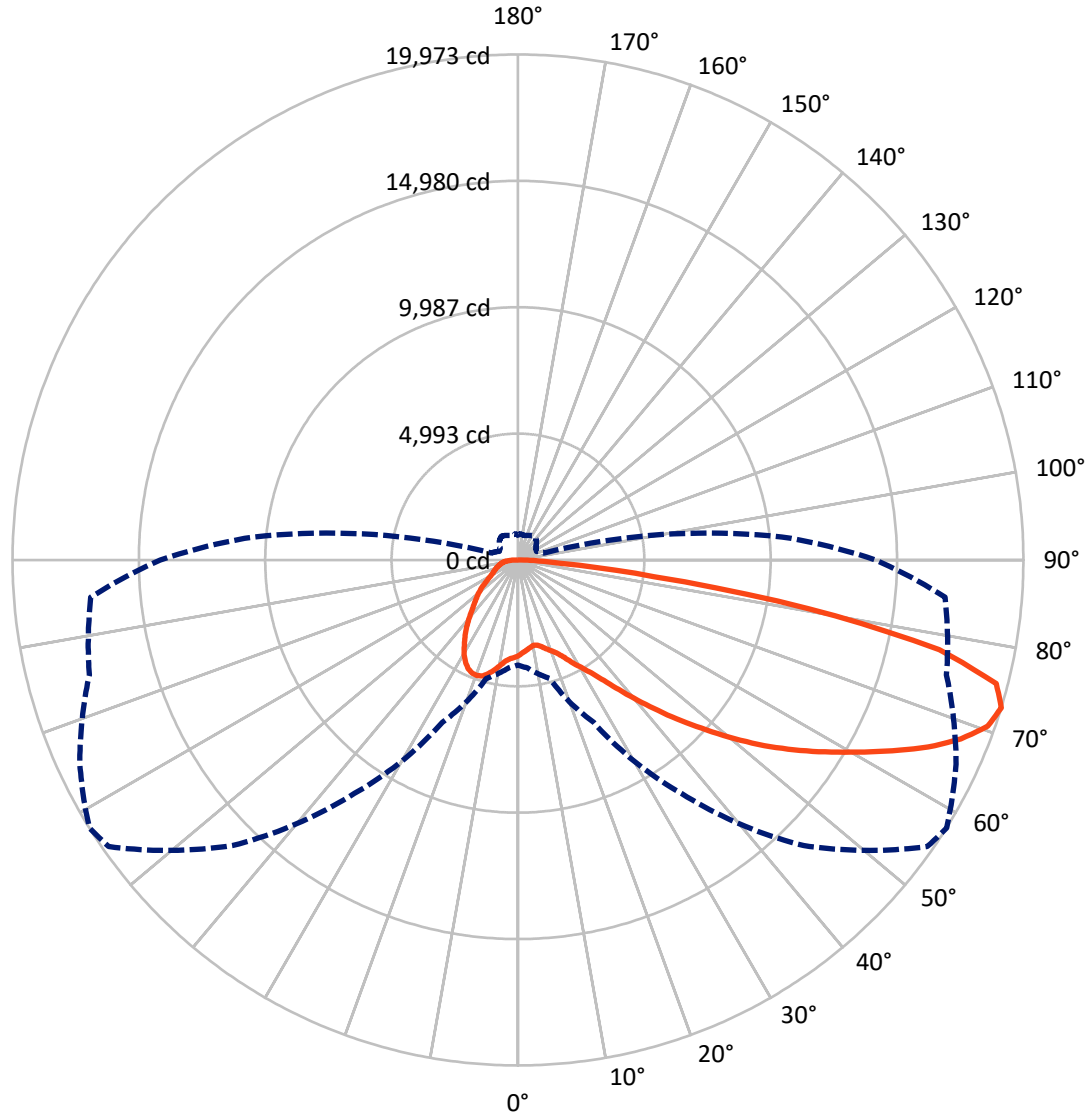
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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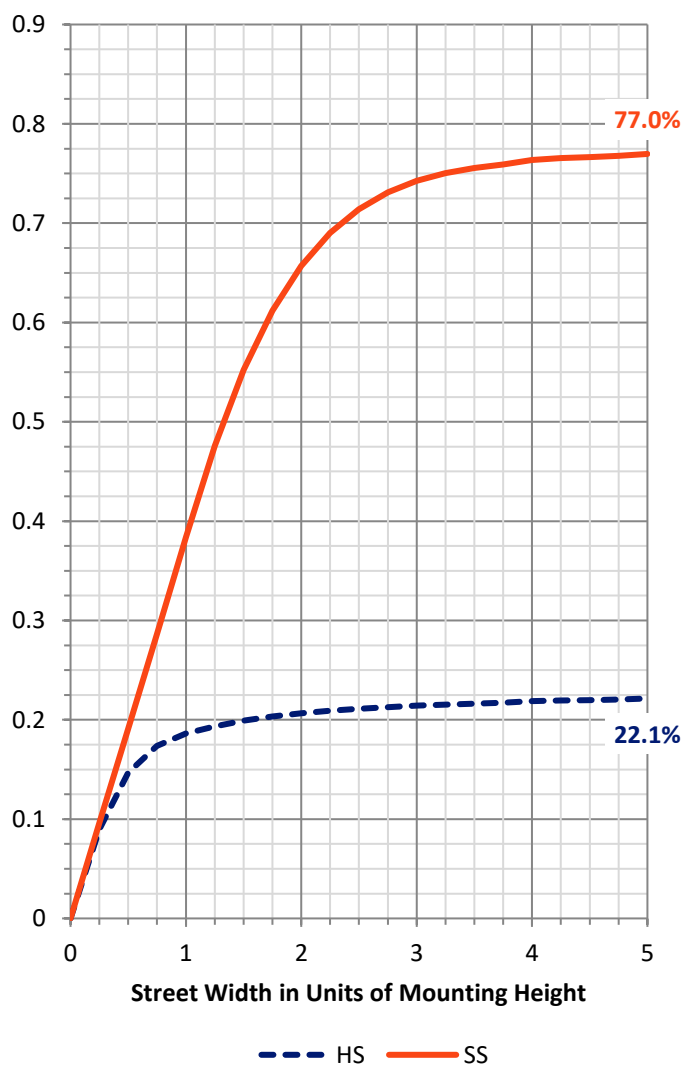
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8123.1	0.0	8123.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	27694.9	0.0	27694.9
	% Fixture	77.3	0.0	77.3
Total	Lumens	35818.0	0.0	35818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.9	1.0
10°-20°	1155.8	3.2
20°-30°	2070.4	5.8
30°-40°	3114.5	8.7
40°-50°	5043.4	14.1
50°-60°	7592.0	21.2
60°-70°	8935.0	24.9
70°-80°	6335.7	17.7
80°-90°	1207.3	3.4
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°	35818.0	100.0
0°-180°	35818.0	100.0

Coefficient of Utilization

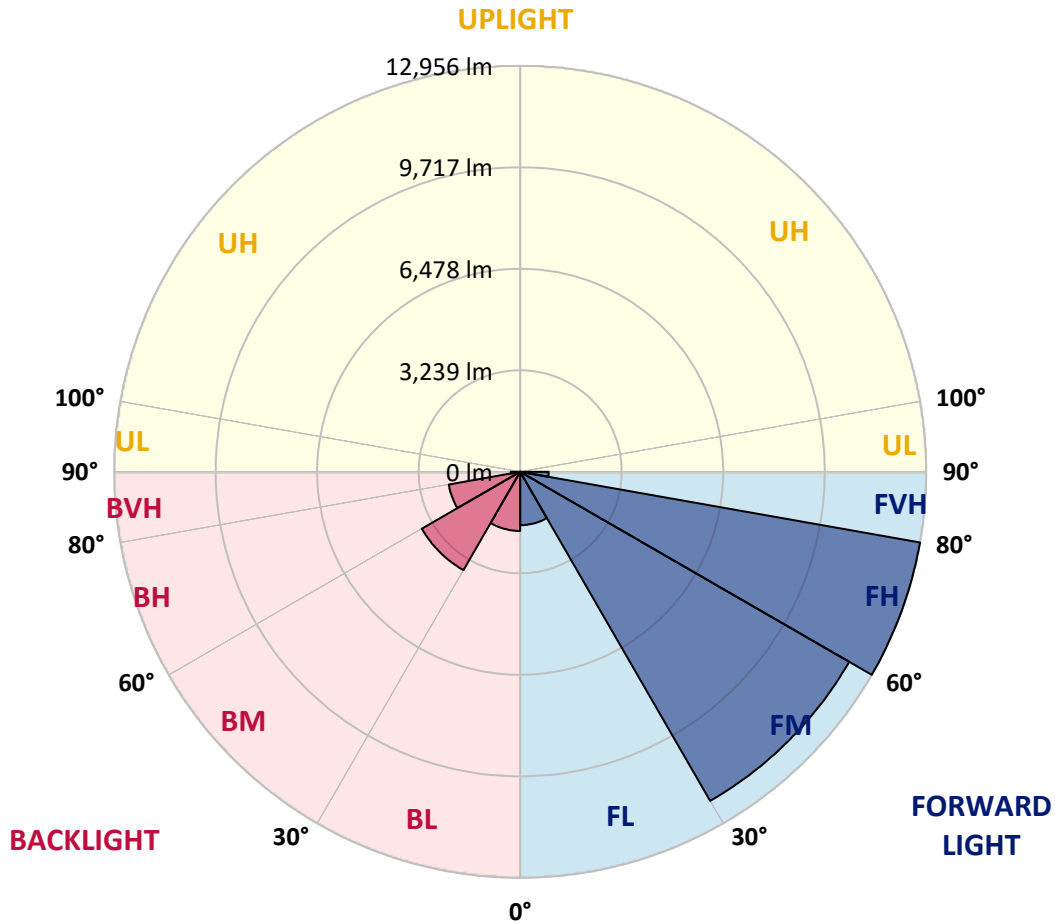


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1703.3	4.8			
FM (30°-60°)	12125.4	33.9			
FH (60°-80°)	12955.5	36.2			G5
FVH (80°-90°)	910.6	2.5			G5
BL (0°-30°)	1886.9	5.3	B3/2500		
BM (30°-60°)	3624.5	10.1	B3/5000		
BH (60°-80°)	2315.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	296.6	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3778.0	3778.0	3778.0	3778.0	3778.0	3778.0	3778.0	3778.0	3778.0	3778.0	3778.0
2.5°	3636.2	3617.3	3622.0	3622.0	3640.9	3650.4	3655.1	3669.3	3678.7	3702.4	3735.5
5°	3466.0	3451.8	3456.5	3461.2	3494.3	3527.4	3555.8	3574.7	3603.1	3640.9	3688.2
7.5°	3343.0	3333.6	3338.3	3347.7	3376.1	3413.9	3461.2	3489.6	3532.2	3603.1	3683.5
10°	3253.2	3253.2	3257.9	3276.8	3305.2	3352.5	3390.3	3423.4	3508.5	3636.2	3759.1
12.5°	3182.3	3182.3	3196.4	3234.3	3281.5	3328.8	3418.7	3456.5	3570.0	3744.9	3891.5
15°	3177.5	3182.3	3187.0	3220.1	3272.1	3376.1	3508.5	3565.3	3702.4	3910.4	4080.7
17.5°	3253.2	3257.9	3239.0	3248.5	3309.9	3456.5	3631.5	3697.7	3872.6	4099.6	4274.5
20°	3484.9	3484.9	3428.1	3376.1	3418.7	3579.4	3778.0	3844.2	4038.1	4288.7	4463.7
22.5°	3957.7	3981.4	3849.0	3735.5	3669.3	3759.1	3938.8	4009.7	4227.2	4496.8	4671.7
25°	4529.9	4553.5	4373.8	4213.1	4090.1	4075.9	4194.1	4269.8	4449.5	4728.5	4875.0
27.5°	5083.1	5040.5	4875.0	4723.7	4567.7	4440.0	4529.9	4596.1	4804.1	5016.9	5106.7
30°	5518.1	5485.0	5324.2	5215.5	5068.9	4903.4	4851.4	4922.3	5092.5	5291.1	5338.4
32.5°	6000.4	5976.8	5816.0	5674.1	5551.2	5395.2	5281.7	5314.8	5409.4	5551.2	5579.6
35°	6615.1	6667.1	6496.9	6208.5	6071.3	5920.0	5839.6	5849.1	5920.0	6009.9	5962.6
37.5°	7262.9	7324.4	7333.8	6879.9	6695.5	6558.4	6473.3	6506.4	6591.5	6652.9	6506.4
40°	8463.9	8402.5	8156.6	7820.9	7537.2	7404.8	7286.6	7281.8	7343.3	7452.0	7187.3
42.5°	10057.4	10000.7	9504.2	9069.2	8620.0	8468.7	8237.0	8137.7	8166.0	8303.2	7934.4
45°	11584.7	11561.1	11163.9	10657.9	10118.9	9825.7	9296.1	9055.0	9031.4	9140.1	8700.4
47.5°	12941.8	12837.8	12549.3	12156.9	12100.1	11334.1	10360.1	10033.8	9920.3	9981.8	9490.0
50°	14393.4	14038.8	13641.6	13400.4	13811.8	13097.8	11433.4	11093.0	10814.0	10856.5	10345.9
52.5°	15164.2	14568.4	14308.3	14379.2	14932.5	14658.2	12601.3	12185.2	11736.0	11797.5	11197.0
55°	14502.2	14497.5	14610.9	15050.7	15821.4	15504.6	13712.5	13244.4	12752.6	12766.8	12175.8
57.5°	13594.3	13778.7	14365.1	15334.4	16923.1	16393.6	14804.8	14308.3	13859.1	13788.2	13287.0
60°	12766.8	12970.2	13821.3	15287.1	17306.2	17206.9	15845.1	15410.0	15046.0	14837.9	14454.9
62.5°	11509.1	11660.4	12866.1	14984.5	16984.6	17793.2	16899.5	16601.6	16327.4	15897.1	15712.7
65°	10029.1	10081.1	11353.0	13986.8	16582.7	18020.2	17949.2	17816.8	17552.0	16918.4	16956.2
67.5°	8426.1	8530.1	9646.1	12393.3	15703.2	17916.1	18762.5	18871.3	18559.2	17608.8	17750.6
70°	6719.1	6846.8	7693.2	10189.8	14209.0	17466.9	19514.3	19689.3	19088.8	17835.7	17897.2
72.5°	4156.3	4279.3	4846.7	7078.5	11263.2	15958.5	19746.0	19973.0	19103.0	17533.1	16942.1
75°	1437.5	1451.6	1896.1	3395.0	6686.0	12048.1	18989.5	19523.8	18502.5	16431.4	14743.3
77.5°	657.3	680.9	841.7	1399.6	2964.7	6501.6	15679.6	17017.7	16677.3	14710.2	11348.3
80°	453.9	463.4	581.6	836.9	1711.7	2288.6	9896.7	11641.5	12237.2	11390.9	7272.4
82.5°	340.4	349.9	449.2	567.4	1234.1	1111.2	3768.6	5409.4	6723.9	6600.9	3040.4
85°	326.3	321.5	349.9	378.3	822.8	662.0	1219.9	1673.9	2624.3	2246.0	766.0
87.5°	141.9	156.0	359.4	212.8	430.3	307.3	529.6	619.4	799.1	695.1	274.3
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°	3778.0	3778.0	3778.0	3778.0	3778.0	3778.0	3778.0	3778.0	3778.0	3778.0	3778.0
2.5°	3749.7	3759.1	3787.5	3830.1	3853.7	3901.0	3934.1	3953.0	3967.2	3971.9	3971.9
5°	3716.6	3735.5	3797.0	3867.9	3934.1	4033.4	4123.2	4175.2	4213.1	4227.2	4232.0
7.5°	3726.0	3773.3	3863.1	3967.2	4052.3	4180.0	4288.7	4392.7	4477.8	4510.9	4510.9
10°	3815.9	3882.1	4005.0	4142.1	4250.9	4383.3	4496.8	4586.6	4685.9	4742.6	4752.1
12.5°	3953.0	4033.4	4194.1	4345.5	4468.4	4572.4	4676.4	4742.6	4789.9	4832.5	4841.9
15°	4146.9	4246.2	4406.9	4563.0	4671.7	4737.9	4766.3	4766.3	4761.6	4766.3	4775.7
17.5°	4340.7	4435.3	4596.1	4752.1	4804.1	4766.3	4733.2	4723.7	4719.0	4709.5	4714.3
20°	4529.9	4619.7	4756.8	4875.0	4832.5	4700.1	4657.5	4652.8	4638.6	4629.2	4619.7
22.5°	4719.0	4785.2	4898.7	4941.2	4771.0	4581.9	4529.9	4501.5	4482.6	4458.9	4435.3
25°	4936.5	4955.4	5040.5	4974.3	4619.7	4364.4	4288.7	4246.2	4227.2	4203.6	4184.7
27.5°	5139.8	5139.8	5154.0	4922.3	4397.5	4075.9	3962.4	3886.8	3882.1	3877.3	3872.6
30°	5324.2	5300.6	5253.3	4766.3	4109.0	3721.3	3551.1	3475.4	3503.8	3527.4	3532.2
32.5°	5541.8	5494.5	5362.1	4553.5	3763.9	3324.1	3116.1	3083.0	3116.1	3144.4	3125.5
35°	5882.2	5797.1	5475.6	4307.6	3432.9	2960.0	2761.4	2714.1	2704.7	2699.9	2662.1
37.5°	6369.2	6222.7	5565.4	4042.8	3106.6	2638.5	2491.9	2392.6	2302.8	2208.2	2194.0
40°	6965.0	6714.4	5626.9	3740.2	2761.4	2369.0	2212.9	2085.2	1933.9	1768.4	1749.5
42.5°	7617.5	7244.0	5655.2	3404.5	2458.8	2146.7	1952.9	1792.1	1621.9	1494.2	1470.6
45°	8322.1	7816.1	5631.6	3083.0	2212.9	1957.6	1740.1	1565.1	1428.0	1338.2	1319.2
47.5°	9007.7	8473.4	5565.4	2827.6	2023.8	1796.8	1574.6	1413.8	1309.8	1210.5	1186.8
50°	9887.2	9102.3	5485.0	2629.0	1815.7	1636.0	1470.6	1300.3	1182.1	1134.8	1125.4
52.5°	10861.3	9731.2	5390.4	2378.4	1612.4	1508.4	1404.4	1253.0	1215.2	1125.4	1111.2
55°	11915.7	10478.3	5371.5	2061.6	1432.7	1418.5	1338.2	1295.6	1305.1	1125.4	1101.7
57.5°	13026.9	11277.4	5414.1	1744.8	1286.1	1338.2	1366.5	1333.4	1319.2	1149.0	1101.7
60°	14185.4	12048.1	5286.4	1451.6	1172.7	1272.0	1399.6	1314.5	1210.5	1139.6	1106.5
62.5°	15310.7	12695.9	4733.2	1243.6	1087.5	1253.0	1380.7	1243.6	1125.4	1125.4	1111.2
65°	16128.8	12984.3	3702.4	1092.3	1030.8	1229.4	1347.6	1196.3	1101.7	1134.8	1115.9
67.5°	16223.3	12686.5	2487.2	974.1	983.5	1186.8	1272.0	1153.7	1078.1	1163.2	1134.8
70°	15641.7	11911.0	1522.6	884.2	922.0	1111.2	1205.8	1111.2	1045.0	1139.6	1097.0
72.5°	14133.4	10464.1	1073.4	808.6	855.9	1040.3	1144.3	1073.4	997.7	1030.8	988.2
75°	11594.2	8109.3	851.1	737.6	789.7	974.1	1092.3	1016.6	941.0	926.8	898.4
77.5°	8213.3	5196.6	685.6	680.9	718.7	893.7	1021.3	950.4	874.8	846.4	827.5
80°	4723.7	2548.6	591.1	614.7	652.5	813.3	936.2	874.8	803.8	761.3	732.9
82.5°	1806.3	889.0	520.1	534.3	576.9	728.2	851.1	799.1	728.2	766.0	643.1
85°	586.3	487.0	425.6	439.7	482.3	605.2	751.8	709.3	628.9	558.0	515.4
87.5°	260.1	264.8	227.0	250.6	302.6	401.9	548.5	520.1	458.7	383.0	368.8
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)