

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: P400374

Luminaire Tested: **ARCH-L-PA3-270-750-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-270-750-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35185 lumens
Efficiency: N/A
Efficacy: 128.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

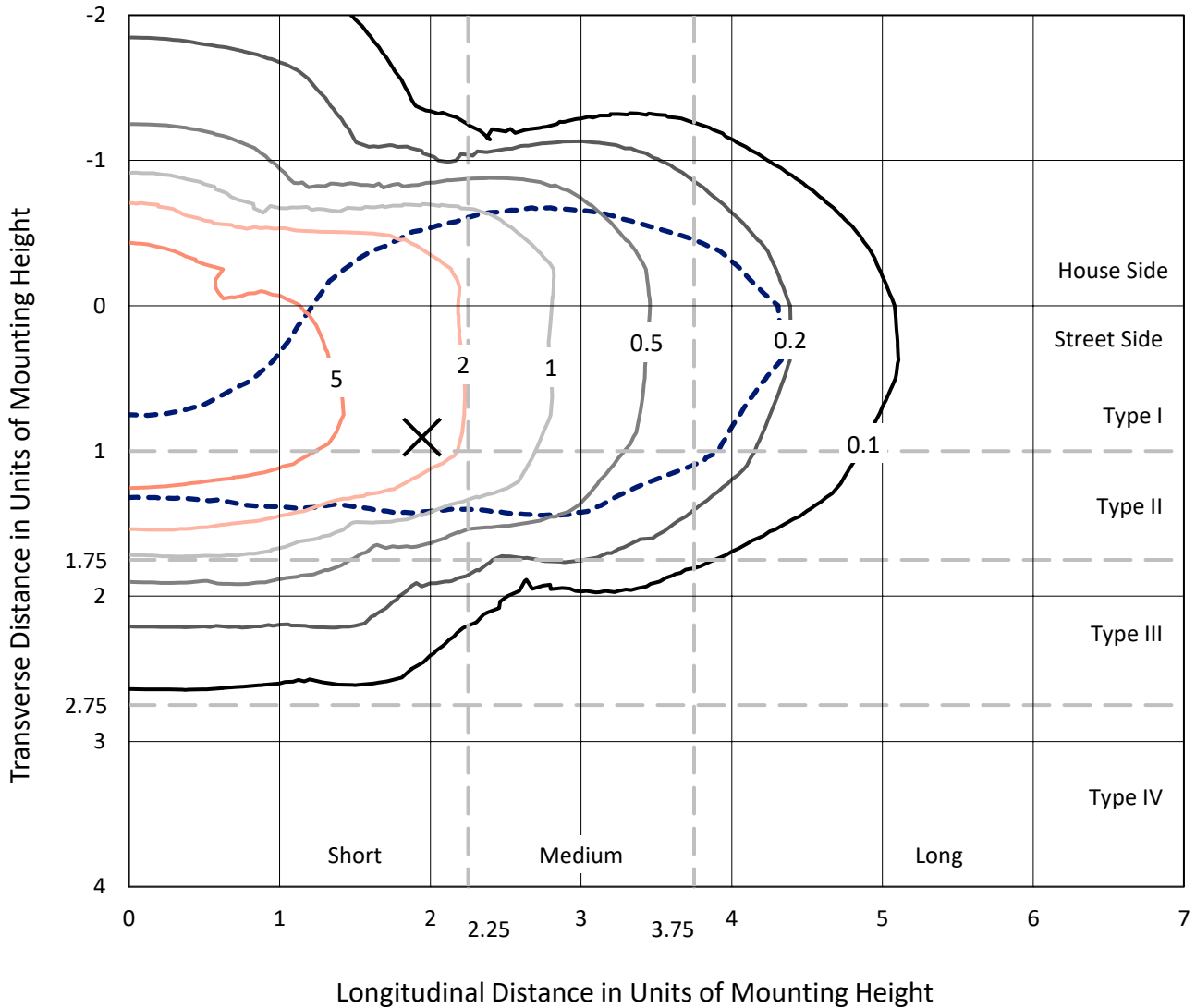
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

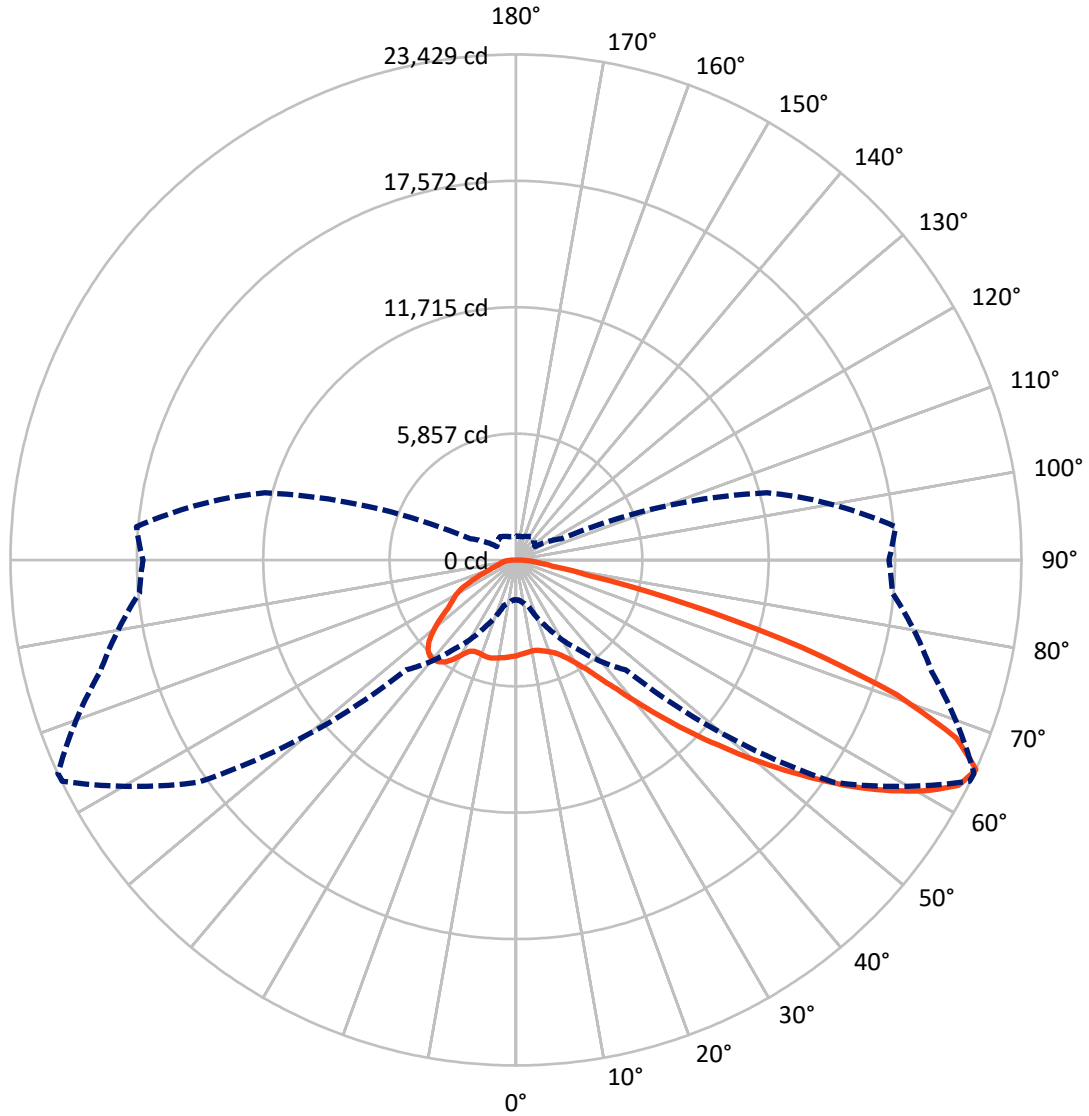
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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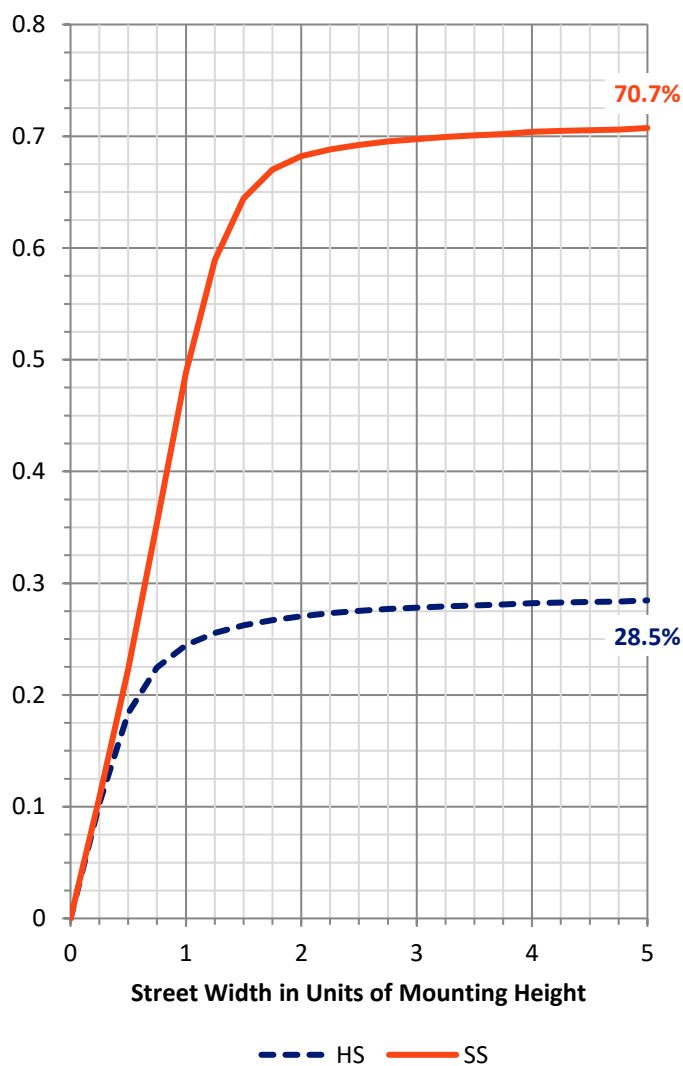
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10172.5	0.0	10172.5
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	25012.5	0.0	25012.5
	% Fixture	71.1	0.0	71.1
Total	Lumens	35185.0	0.0	35185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.6	1.2
10°-20°	1264.6	3.6
20°-30°	2246.3	6.4
30°-40°	3800.2	10.8
40°-50°	6615.5	18.8
50°-60°	8549.3	24.3
60°-70°	7481.1	21.3
70°-80°	4069.2	11.6
80°-90°	735.2	2.1
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°	35185.0	100.0
0°-180°	35185.0	100.0

Coefficient of Utilization



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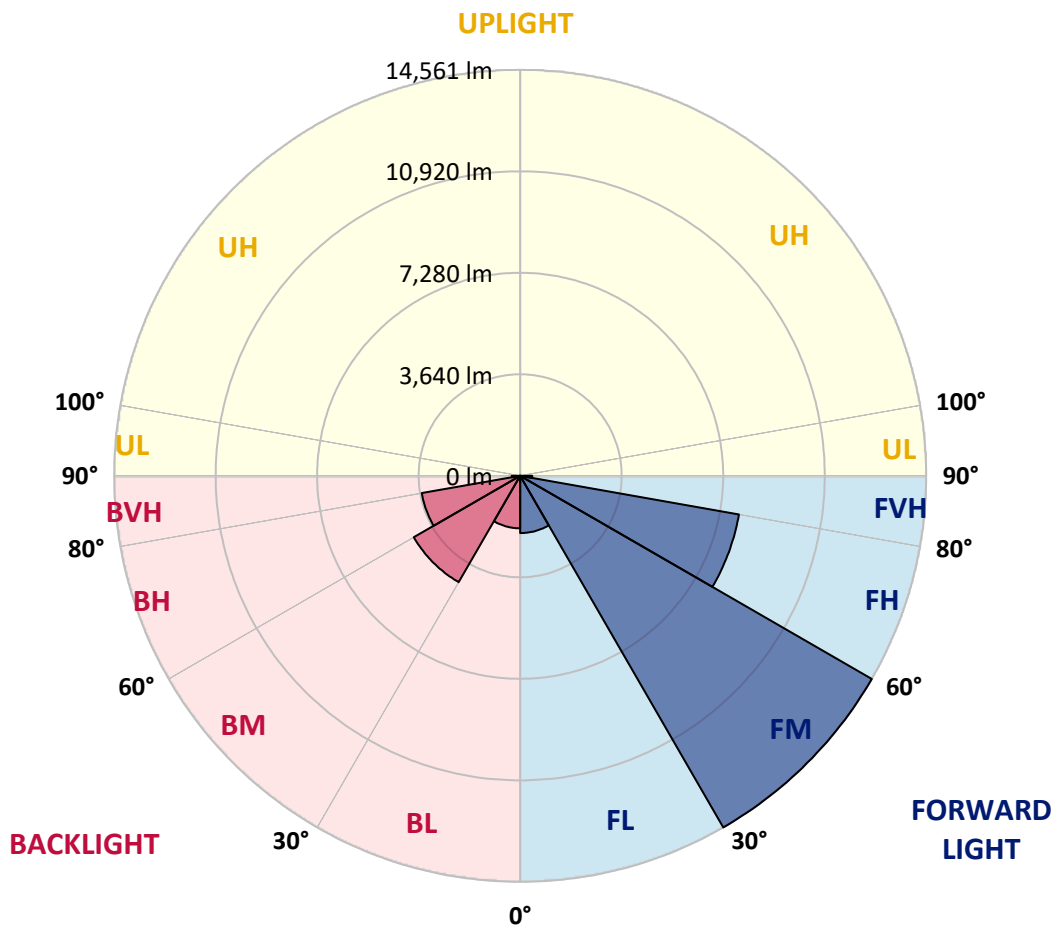
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2052.9	5.8			
FM (30°-60°)	14560.5	41.4			
FH (60°-80°)	7966.4	22.6			G4/12000
FVH (80°-90°)	432.6	1.2			G3/500
BL (0°-30°)	1881.6	5.3	B3/2500		
BM (30°-60°)	4404.5	12.5	B3/5000		
BH (60°-80°)	3583.9	10.2	B4/5000		G4/5000
BVH (80°-90°)	302.6	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4446.0	4446.0	4446.0	4446.0	4446.0	4446.0	4446.0	4446.0	4446.0	4446.0	4446.0
2.5°	4367.2	4362.6	4353.3	4362.6	4367.2	4376.5	4371.9	4381.1	4376.5	4390.4	4413.5
5°	4256.1	4246.8	4242.2	4265.3	4279.2	4302.4	4311.7	4344.1	4339.4	4362.6	4399.7
7.5°	4131.0	4131.0	4126.4	4154.2	4172.7	4214.4	4246.8	4302.4	4307.0	4348.7	4390.4
10°	4033.8	4038.4	4033.8	4056.9	4084.7	4135.7	4191.2	4270.0	4274.6	4334.8	4376.5
12.5°	3996.7	3996.7	3996.7	4029.2	4066.2	4135.7	4200.5	4283.9	4293.1	4358.0	4395.0
15°	4047.7	4052.3	4043.0	4075.5	4117.1	4200.5	4260.7	4348.7	4358.0	4418.2	4441.3
17.5°	4228.3	4246.8	4223.7	4242.2	4232.9	4297.8	4353.3	4441.3	4446.0	4496.9	4506.2
20°	4584.9	4603.4	4566.4	4543.2	4459.9	4455.2	4478.4	4547.9	4547.9	4580.3	4557.1
22.5°	5136.0	5154.5	5089.7	5001.7	4802.6	4705.3	4654.4	4686.8	4682.2	4696.0	4635.8
25°	5867.7	5863.1	5784.4	5622.3	5302.7	5066.5	4941.5	4890.6	4890.6	4862.8	4788.7
27.5°	6775.5	6706.0	6567.1	6372.5	5928.0	5599.1	5330.5	5200.9	5177.7	5094.3	4955.4
30°	7743.4	7692.4	7493.3	7210.8	6696.7	6275.3	5830.7	5571.3	5557.5	5376.8	5168.4
32.5°	8882.7	8799.3	8577.0	8238.9	7623.0	7030.2	6474.4	6080.8	6057.6	5770.5	5483.4
35°	10346.1	10276.7	9846.0	9507.9	8715.9	7937.9	7280.3	6756.9	6738.4	6386.4	6020.6
37.5°	12101.4	11920.7	11503.9	10869.5	10035.8	9114.2	8280.6	7623.0	7599.8	7210.8	6747.7
40°	13666.7	13504.6	13134.1	12550.6	11656.8	10633.3	9503.2	8706.7	8683.5	8211.1	7627.6
42.5°	14824.5	14713.4	14472.5	14134.5	13495.4	12874.8	11064.0	10017.3	9975.6	9364.3	8637.2
45°	15496.0	15408.0	15269.1	15352.5	15343.2	15227.4	12925.7	11578.0	11443.7	10651.8	9762.6
47.5°	15333.9	15255.2	15310.8	15959.2	16853.0	17524.5	15093.1	13175.8	12995.2	11962.4	10962.1
50°	14162.2	14194.7	14486.4	15727.6	17732.9	19224.2	17496.7	14995.9	14755.0	13282.3	12101.4
52.5°	12027.3	12106.0	12814.6	14551.3	17635.7	20326.4	19668.8	16876.1	16556.6	14569.8	13138.7
55°	9554.2	9753.3	10670.3	12495.0	16366.7	20405.1	21308.2	18765.7	18413.7	15778.5	14041.8
57.5°	7067.2	7363.6	8424.2	10100.7	13935.3	19159.3	22127.9	20571.8	20145.8	16978.0	14995.9
60°	4483.0	4663.6	5886.3	7863.8	10665.7	16112.0	22021.4	22109.4	21738.9	18172.9	15991.6
62.5°	2862.1	2950.1	3566.0	5608.4	7456.3	11930.0	20859.0	23271.8	23021.8	19261.2	16936.3
65°	1838.6	1875.6	2190.6	3450.3	5075.8	7201.5	17964.5	23396.9	23429.3	19942.0	17519.9
67.5°	1495.9	1514.4	1630.2	2130.4	3589.2	3978.2	12513.5	21618.5	22012.2	19766.0	17320.7
70°	1361.6	1384.7	1505.1	1699.7	2778.7	2746.3	6057.6	18089.5	18733.3	18751.8	16436.2
72.5°	1148.5	1181.0	1343.1	1607.0	2148.9	2167.4	2565.7	12884.0	13833.4	16760.4	15107.0
75°	958.7	977.2	1116.1	1417.2	1820.1	1732.1	1801.5	6831.0	8201.9	13439.8	13694.5
77.5°	778.0	796.6	898.5	1130.0	1616.3	1347.7	1417.2	2829.7	3496.6	9123.5	11193.6
80°	555.7	574.3	690.1	879.9	1222.6	1213.4	1051.3	1560.7	1695.0	4932.2	7271.0
82.5°	398.3	412.2	523.3	629.8	847.5	1218.0	791.9	1060.5	1111.5	2185.9	2931.6
85°	268.6	268.6	361.2	416.8	546.5	768.8	639.1	717.8	750.3	1037.4	791.9
87.5°	115.8	115.8	194.5	213.0	287.1	356.6	477.0	361.2	370.5	560.4	324.2
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°	4446.0	4446.0	4446.0	4446.0	4446.0	4446.0	4446.0	4446.0	4446.0	4446.0	4446.0
2.5°	4427.4	4432.1	4441.3	4469.1	4487.6	4515.4	4529.3	4547.9	4547.9	4538.6	4543.2
5°	4418.2	4432.1	4464.5	4515.4	4547.9	4598.8	4635.8	4663.6	4672.9	4663.6	4668.3
7.5°	4413.5	4436.7	4492.3	4566.4	4612.7	4677.5	4728.5	4760.9	4784.0	4774.8	4779.4
10°	4399.7	4436.7	4506.2	4598.8	4668.3	4733.1	4779.4	4793.3	4807.2	4797.9	4793.3
12.5°	4418.2	4459.9	4534.0	4645.1	4723.8	4774.8	4788.7	4765.5	4733.1	4714.6	4709.9
15°	4455.2	4496.9	4571.0	4686.8	4756.3	4774.8	4742.4	4668.3	4594.2	4552.5	4547.9
17.5°	4506.2	4534.0	4594.2	4696.0	4751.6	4728.5	4663.6	4575.6	4520.1	4487.6	4492.3
20°	4538.6	4538.6	4584.9	4663.6	4709.9	4691.4	4612.7	4515.4	4427.4	4385.8	4371.9
22.5°	4584.9	4561.7	4566.4	4635.8	4700.7	4672.9	4506.2	4334.8	4209.8	4163.5	4158.8
25°	4709.9	4645.1	4603.4	4645.1	4797.9	4571.0	4237.6	4038.4	3922.6	3881.0	3885.6
27.5°	4862.8	4774.8	4686.8	4756.3	4876.7	4339.4	3894.8	3667.9	3598.5	3566.0	3579.9
30°	5015.6	4899.8	4784.0	5034.1	4821.1	3978.2	3454.9	3232.6	3172.4	3149.2	3167.7
32.5°	5298.1	5108.2	4969.3	5404.6	4649.7	3566.0	2977.9	2774.1	2718.5	2690.7	2681.5
35°	5770.5	5529.7	5390.7	5728.8	4408.9	3107.5	2542.5	2399.0	2338.8	2278.6	2269.3
37.5°	6451.3	6159.5	6034.5	5914.1	4070.8	2653.7	2209.1	2111.8	2023.8	1931.2	1926.6
40°	7266.4	6886.6	6794.0	5997.4	3603.1	2227.6	1977.5	1884.9	1773.8	1685.8	1690.4
42.5°	8206.5	7720.2	7521.1	5974.3	3024.2	2000.7	1810.8	1708.9	1611.7	1532.9	1528.3
45°	9211.5	8660.4	8201.9	5812.2	2449.9	1843.2	1708.9	1588.5	1491.3	1403.3	1394.0
47.5°	10323.0	9707.0	8831.7	5497.2	2023.8	1732.1	1648.7	1477.4	1389.4	1333.8	1333.8
50°	11443.7	10707.4	9410.6	5020.2	1773.8	1648.7	1560.7	1417.2	1347.7	1301.4	1301.4
52.5°	12402.4	11749.4	9887.6	4450.6	1616.3	1579.2	1500.5	1389.4	1315.3	1273.6	1269.0
55°	13333.3	12717.3	10313.7	3885.6	1486.6	1486.6	1486.6	1366.2	1282.8	1245.8	1241.2
57.5°	14259.5	13736.2	10758.3	3515.1	1370.8	1407.9	1458.8	1338.4	1255.1	1222.6	1218.0
60°	15306.2	14958.8	11272.4	3255.7	1269.0	1324.5	1421.8	1306.0	1208.7	1181.0	1176.3
62.5°	16417.6	16417.6	11740.1	2889.9	1176.3	1255.1	1366.2	1264.3	1167.1	1143.9	1139.3
65°	17288.3	17663.4	12041.2	2343.4	1083.7	1185.6	1301.4	1208.7	1111.5	1106.9	1097.6
67.5°	17390.2	17978.4	11851.3	1769.1	1000.3	1111.5	1236.5	1148.5	1055.9	1055.9	1042.0
70°	16658.5	17255.9	11258.5	1324.5	940.1	1037.4	1153.2	1074.4	986.4	995.7	972.6
72.5°	15435.8	15584.0	9785.8	1046.7	870.7	958.7	1051.3	991.1	912.3	912.3	879.9
75°	13824.2	12999.8	7108.9	875.3	787.3	866.0	949.4	898.5	829.0	805.8	787.3
77.5°	11003.8	9419.9	4131.0	754.9	717.8	778.0	833.6	796.6	736.4	685.4	685.4
80°	6706.0	5520.4	1824.7	653.0	634.5	680.8	717.8	676.2	625.2	574.3	560.4
82.5°	2551.8	2130.4	884.6	560.4	555.7	583.5	611.3	569.6	532.6	509.4	440.0
85°	699.3	643.7	606.7	467.8	458.5	453.9	486.3	467.8	416.8	342.7	305.7
87.5°	264.0	301.0	328.8	287.1	305.7	282.5	324.2	296.4	264.0	171.4	152.8
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)