

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: P400387

Luminaire Tested: **ARCH-L-PA3-270-760-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-270-760-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35147 lumens  
Efficiency: N/A  
Efficacy: 128.7 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

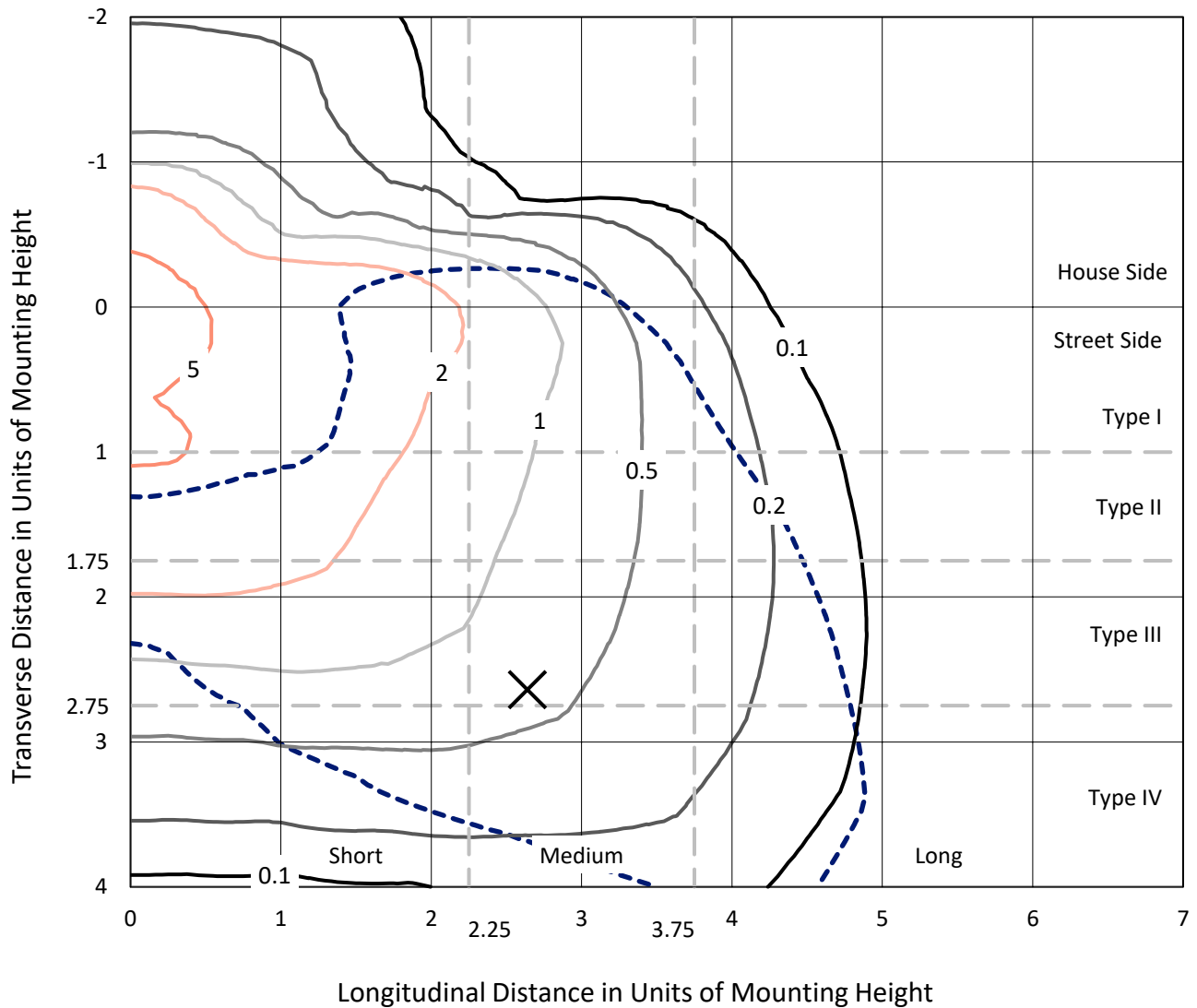
Input Watts (W): 273  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

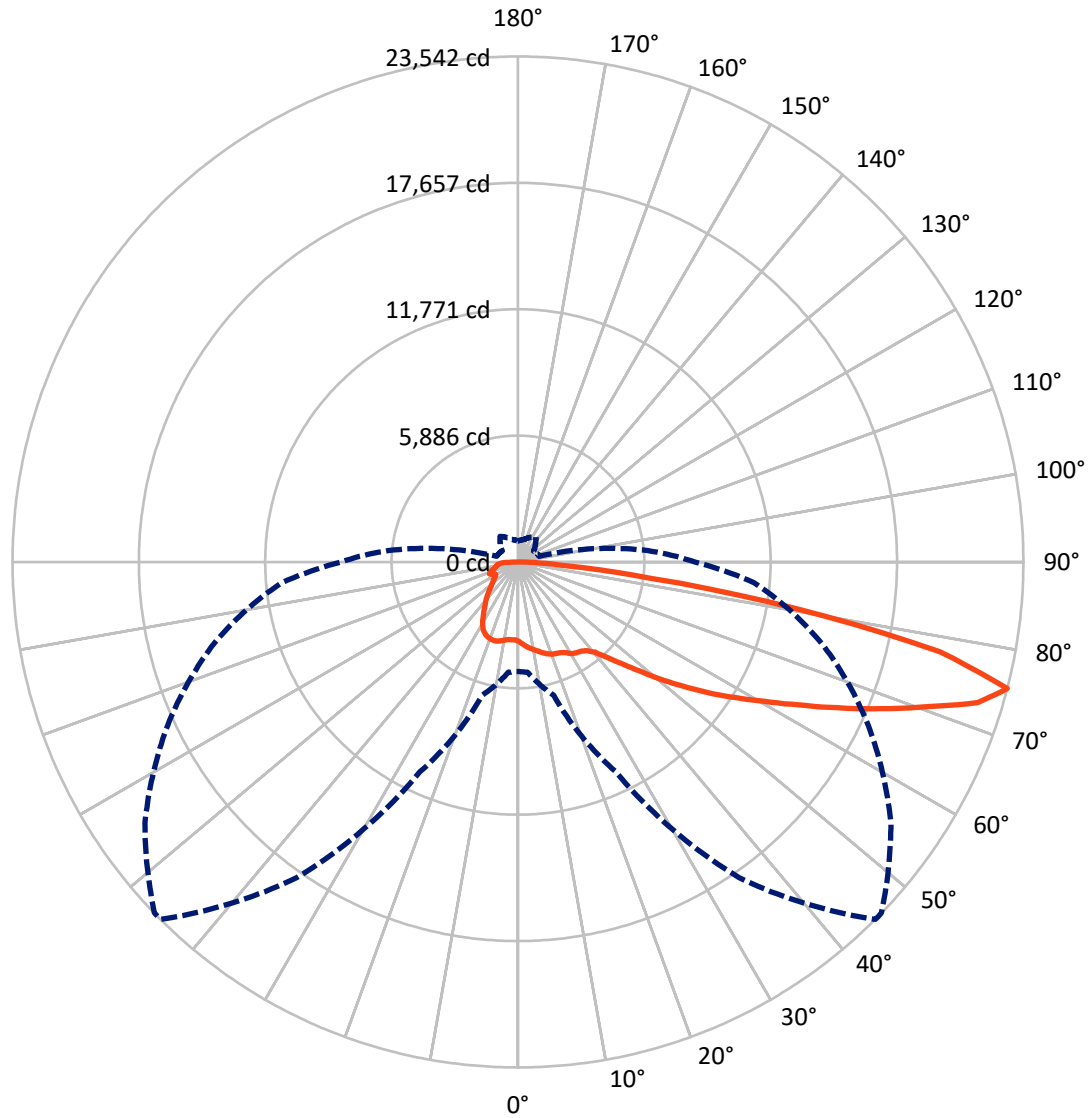
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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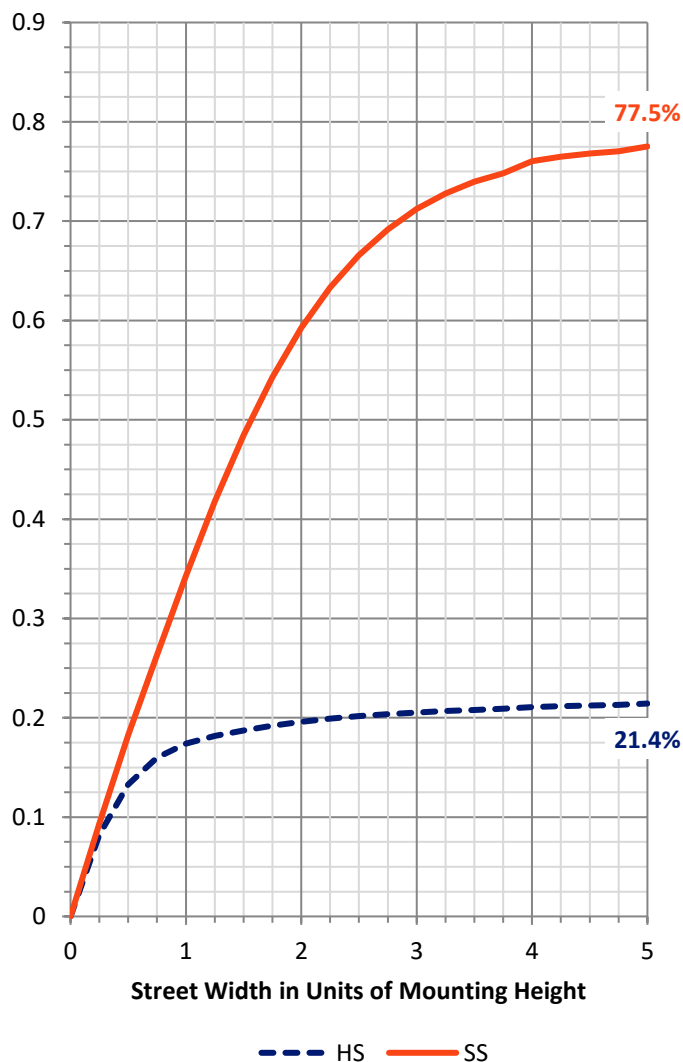
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7767.3	0.0	7767.3
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	27379.7	0.0	27379.7
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	35147.0	0.0	35147.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	365.2	1.0
10°-20°	1161.7	3.3
20°-30°	1980.6	5.6
30°-40°	2775.0	7.9
40°-50°	4076.9	11.6
50°-60°	6488.5	18.5
60°-70°	9229.8	26.3
70°-80°	7728.1	22.0
80°-90°	1341.2	3.8
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°	35147.0	100.0
0°-180°	35147.0	100.0

**Coefficient of Utilization**

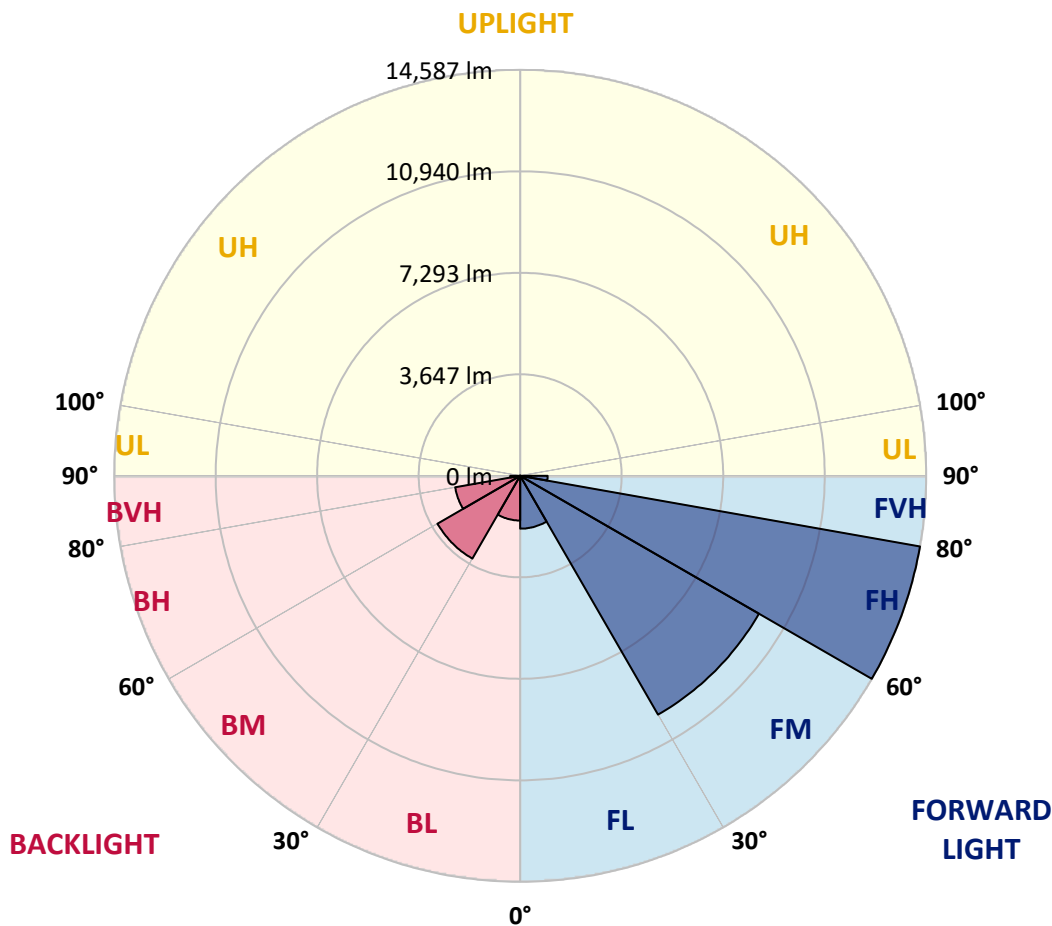


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1899.9	5.4			
FM (30°-60°)	9906.9	28.2			
FH (60°-80°)	14586.9	41.5			G5
FVH (80°-90°)	986.0	2.8			G5
BL (0°-30°)	1607.5	4.6	B3/2500		
BM (30°-60°)	3433.5	9.8	B3/5000		
BH (60°-80°)	2371.1	6.7	B3/2500		G3/2500
BVH (80°-90°)	355.2	1.0			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°	46°	55°	65°	75°	85°
0°	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2
2.5°	3902.5	3883.7	3874.4	3874.4	3836.8	3813.3	3808.6	3775.7	3747.6	3719.4	3695.9
5°	4127.9	4113.9	4085.7	4062.2	4010.5	3944.8	3935.4	3865.0	3794.5	3728.8	3672.4
7.5°	4334.6	4306.4	4273.5	4226.6	4142.0	4052.8	4038.7	3940.1	3841.5	3742.9	3667.7
10°	4508.3	4480.2	4433.2	4367.5	4259.4	4151.4	4137.3	4034.0	3930.7	3813.3	3705.3
12.5°	4672.7	4649.2	4578.8	4489.6	4362.8	4264.1	4250.1	4160.8	4052.8	3921.3	3780.4
15°	4813.6	4790.1	4715.0	4611.7	4466.1	4390.9	4372.2	4287.6	4179.6	4038.7	3893.1
17.5°	4884.0	4884.0	4804.2	4691.5	4555.3	4498.9	4484.9	4381.5	4282.9	4146.7	4001.2
20°	4907.5	4916.9	4860.6	4724.4	4607.0	4583.5	4569.4	4484.9	4372.2	4240.7	4104.5
22.5°	4921.6	4940.4	4893.4	4738.5	4639.8	4625.7	4616.4	4560.0	4470.8	4344.0	4207.8
25°	4968.6	4968.6	4935.7	4761.9	4682.1	4677.4	4677.4	4644.5	4583.5	4475.5	4339.3
27.5°	5039.0	5034.3	4992.0	4813.6	4776.0	4790.1	4785.4	4780.7	4738.5	4630.4	4484.9
30°	5156.4	5156.4	5109.5	4916.9	4893.4	4954.5	4959.2	4968.6	4902.8	4733.8	4616.4
32.5°	5334.9	5316.1	5269.1	5020.2	4982.7	5039.0	5048.4	5043.7	4987.4	4827.7	4771.3
35°	5884.3	5842.1	5673.0	5250.3	5062.5	5095.4	5100.1	5123.5	5132.9	5006.1	4978.0
37.5°	6847.0	6790.7	6532.4	5795.1	5316.1	5236.3	5231.6	5292.6	5344.3	5231.6	5231.6
40°	7894.3	7847.3	7697.1	6734.3	5785.7	5522.7	5503.9	5560.3	5626.0	5546.2	5569.7
42.5°	8796.0	8833.5	8847.6	7729.9	6490.1	6058.1	6006.4	5926.6	6029.9	5959.5	6053.4
45°	9472.2	9453.4	9711.7	8749.0	7401.2	6729.6	6659.2	6443.2	6574.7	6570.0	6776.6
47.5°	10190.7	10157.9	10265.9	9707.0	8439.1	7551.5	7443.5	7124.1	7321.4	7457.5	7800.4
50°	10871.7	10881.1	10918.6	10463.1	9566.1	8551.8	8415.6	7988.2	8270.0	8556.5	9040.2
52.5°	11759.3	11693.5	11646.5	11346.0	10829.4	9594.3	9505.1	9016.7	9411.2	9749.3	10392.7
55°	12534.1	12491.9	12463.7	12449.6	11886.1	10744.9	10651.0	10143.8	10712.0	10951.5	11900.1
57.5°	13360.7	13337.2	13487.5	13727.0	13501.5	11914.2	11815.6	11327.2	11961.2	12130.3	13534.4
60°	13966.5	13980.6	14393.8	15004.3	14849.3	13182.2	13064.8	12632.7	13177.5	13327.8	15168.7
62.5°	13971.2	14112.0	15070.1	16164.3	16342.7	14642.7	14506.5	14036.9	14426.7	14426.7	16633.9
65°	12637.4	12797.1	14948.0	16450.7	17854.9	16380.3	16248.8	15511.5	15657.1	15459.9	18009.9
67.5°	11308.4	11496.3	13520.3	16474.2	18916.2	18240.0	18085.0	16986.1	16737.2	16239.4	18972.6
70°	10425.5	10557.0	12247.7	16169.0	19554.9	20184.2	20066.8	18385.6	17587.2	16892.2	18770.7
72.5°	8777.2	8730.2	10345.7	14717.9	19911.8	22391.4	22292.8	19907.1	18324.5	16582.2	16009.3
75°	5095.4	5151.7	6419.7	10782.4	17948.8	23542.0	23532.6	21208.0	18000.5	14647.4	11031.3
77.5°	1469.9	1512.2	2108.6	4738.5	11350.7	20080.9	20724.3	19395.3	15215.7	10439.6	5720.0
80°	643.4	676.3	915.8	1577.9	4888.7	13116.5	13680.0	13116.5	9176.4	4790.1	2244.8
82.5°	380.4	403.9	596.4	976.8	2343.4	6241.2	7002.0	6114.4	3958.9	2033.4	929.8
85°	216.0	225.4	342.8	619.9	1474.6	2183.7	2451.4	2296.4	1930.1	1155.3	488.4
87.5°	98.6	103.3	169.1	291.2	826.5	737.3	765.5	1014.4	1117.7	704.4	244.2
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°	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2	3691.2
2.5°	3686.5	3672.4	3644.2	3634.8	3620.8	3625.5	3630.2	3630.2	3634.8	3620.8	3620.8
5°	3648.9	3625.5	3597.3	3597.3	3597.3	3634.8	3667.7	3686.5	3695.9	3695.9	3686.5
7.5°	3634.8	3606.7	3573.8	3583.2	3592.6	3639.5	3700.6	3761.6	3780.4	3780.4	3771.0
10°	3663.0	3634.8	3611.4	3625.5	3648.9	3686.5	3733.5	3789.8	3836.8	3841.5	3836.8
12.5°	3728.8	3695.9	3672.4	3700.6	3728.8	3752.3	3775.7	3799.2	3860.3	3869.7	3869.7
15°	3836.8	3803.9	3775.7	3799.2	3808.6	3808.6	3808.6	3808.6	3869.7	3879.1	3879.1
17.5°	3944.8	3916.6	3888.4	3893.1	3865.0	3827.4	3813.3	3808.6	3841.5	3869.7	3874.4
20°	4048.1	4024.6	3996.5	3949.5	3879.1	3808.6	3785.1	3785.1	3803.9	3846.2	3846.2
22.5°	4160.8	4132.6	4085.7	3977.7	3860.3	3761.6	3738.2	3752.3	3775.7	3832.1	3827.4
25°	4287.6	4250.1	4170.2	3968.3	3799.2	3681.8	3686.5	3728.8	3771.0	3832.1	3832.1
27.5°	4428.5	4376.8	4217.2	3893.1	3663.0	3550.3	3592.6	3691.2	3752.3	3818.0	3827.4
30°	4583.5	4536.5	4254.7	3761.6	3442.3	3339.0	3442.3	3602.0	3695.9	3757.0	3771.0
32.5°	4771.3	4733.8	4287.6	3592.6	3155.8	3066.6	3216.9	3414.1	3564.4	3634.8	3648.9
35°	5006.1	4968.6	4329.9	3400.0	2888.2	2794.2	2930.4	3132.4	3329.6	3418.8	3447.0
37.5°	5311.4	5255.0	4367.5	3193.4	2662.7	2554.7	2620.5	2803.6	2982.1	3104.2	3137.1
40°	5701.2	5611.9	4400.3	2958.6	2465.5	2343.4	2366.9	2456.1	2559.4	2667.4	2709.7
42.5°	6250.6	6072.2	4405.0	2709.7	2263.6	2150.9	2141.5	2169.6	2169.6	2169.6	2183.7
45°	7016.1	6678.0	4414.4	2474.9	2056.9	1939.5	1911.3	1902.0	1831.5	1695.3	1685.9
47.5°	7983.5	7471.6	4456.7	2277.7	1840.9	1737.6	1700.0	1662.5	1531.0	1390.1	1361.9
50°	9223.3	8392.1	4541.2	2089.8	1657.8	1587.3	1540.3	1451.1	1305.5	1197.5	1169.4
52.5°	10651.0	9486.3	4621.0	1892.6	1521.6	1474.6	1418.2	1310.2	1155.3	1089.5	1080.1
55°	12289.9	10707.3	4780.7	1718.8	1404.2	1371.3	1319.6	1216.3	1098.9	1051.9	1047.3
57.5°	13966.5	12073.9	5006.1	1563.8	1291.5	1272.7	1272.7	1183.4	1108.3	1089.5	1089.5
60°	15582.0	13247.9	4832.4	1418.2	1188.1	1197.5	1286.8	1263.3	1206.9	1230.4	1244.5
62.5°	16835.8	13938.3	3921.3	1300.8	1113.0	1197.5	1427.6	1427.6	1361.9	1352.5	1352.5
65°	17371.2	13928.9	2756.7	1211.6	1084.8	1314.9	1592.0	1516.9	1343.1	1277.4	1263.3
67.5°	17235.0	13318.4	1902.0	1150.6	1075.4	1437.0	1667.1	1455.8	1258.6	1202.2	1160.0
70°	16037.5	12026.9	1465.2	1094.2	1061.3	1385.4	1643.7	1385.4	1192.8	1141.2	1103.6
72.5°	12938.0	9646.0	1216.3	1037.9	1005.0	1282.1	1563.8	1319.6	1141.2	1084.8	1047.3
75°	8251.2	6067.5	1028.5	962.7	897.0	1150.6	1455.8	1253.9	1084.8	1009.7	981.5
77.5°	3968.3	2615.8	897.0	873.5	807.7	1066.0	1347.8	1169.4	1009.7	948.6	929.8
80°	1606.1	1197.5	779.6	784.3	742.0	1014.4	1272.7	1089.5	934.5	868.8	835.9
82.5°	835.9	695.0	657.5	676.3	676.3	967.4	1216.3	1023.8	868.8	840.6	732.6
85°	450.8	432.0	507.2	544.8	587.0	873.5	1131.8	953.3	793.7	680.9	657.5
87.5°	220.7	281.8	286.5	328.7	408.6	699.7	953.3	798.4	662.2	549.5	540.1
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)