

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: P399942

Luminaire Tested: **ARCH-L-PA3-210-750-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399942
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-PA3-210-750-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29814 lumens
Efficiency: N/A
Efficacy: 141.3 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

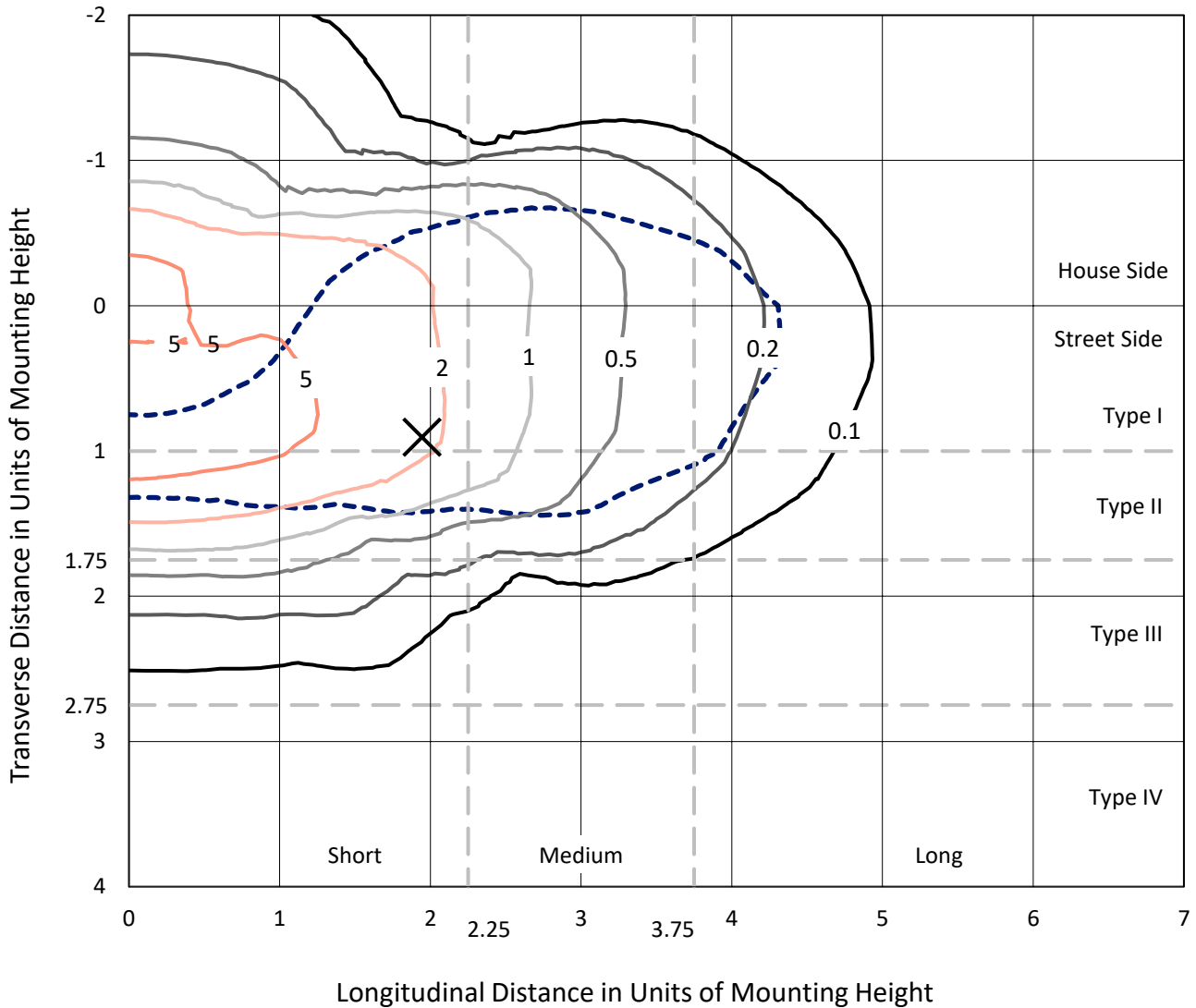
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

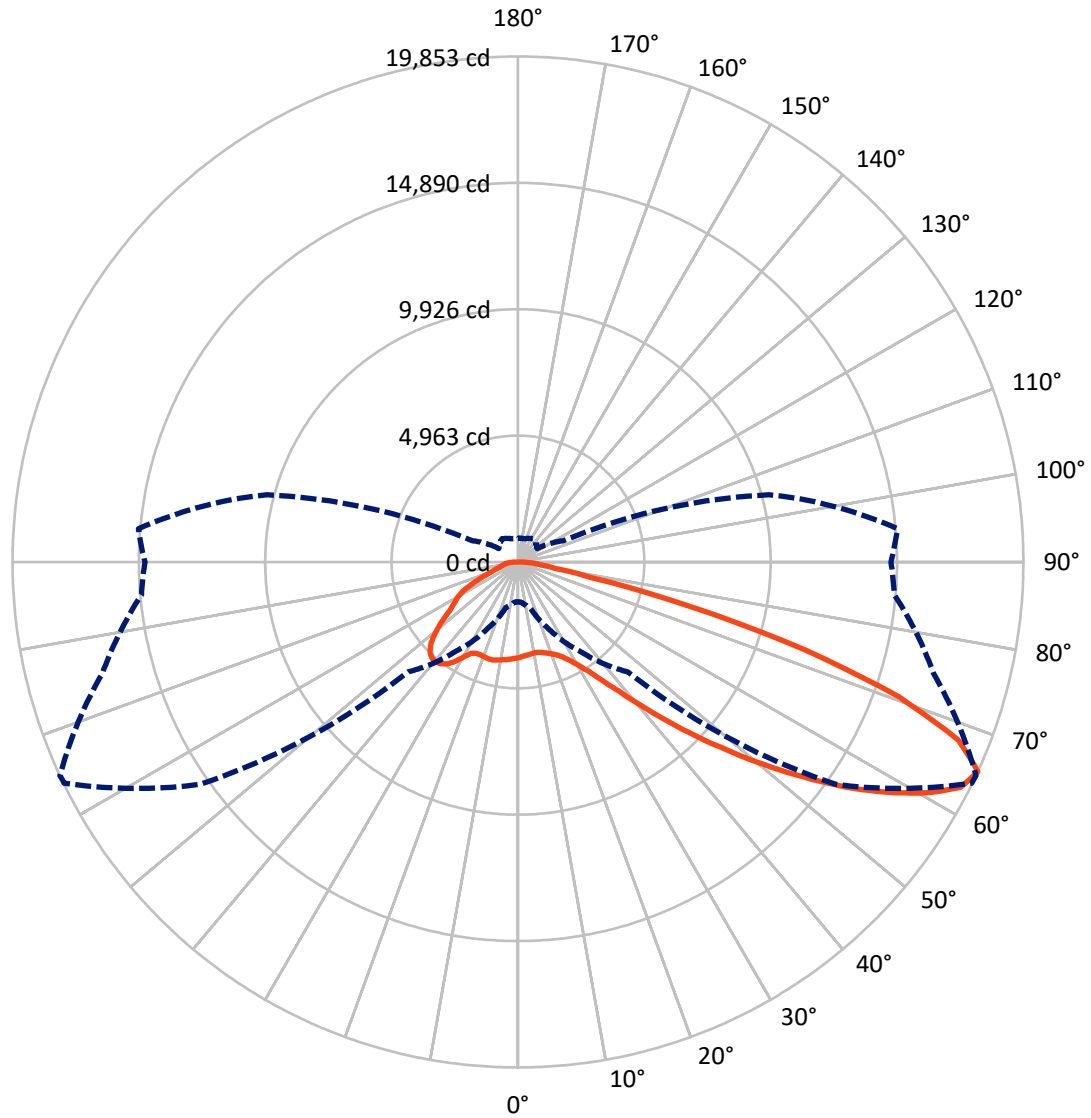
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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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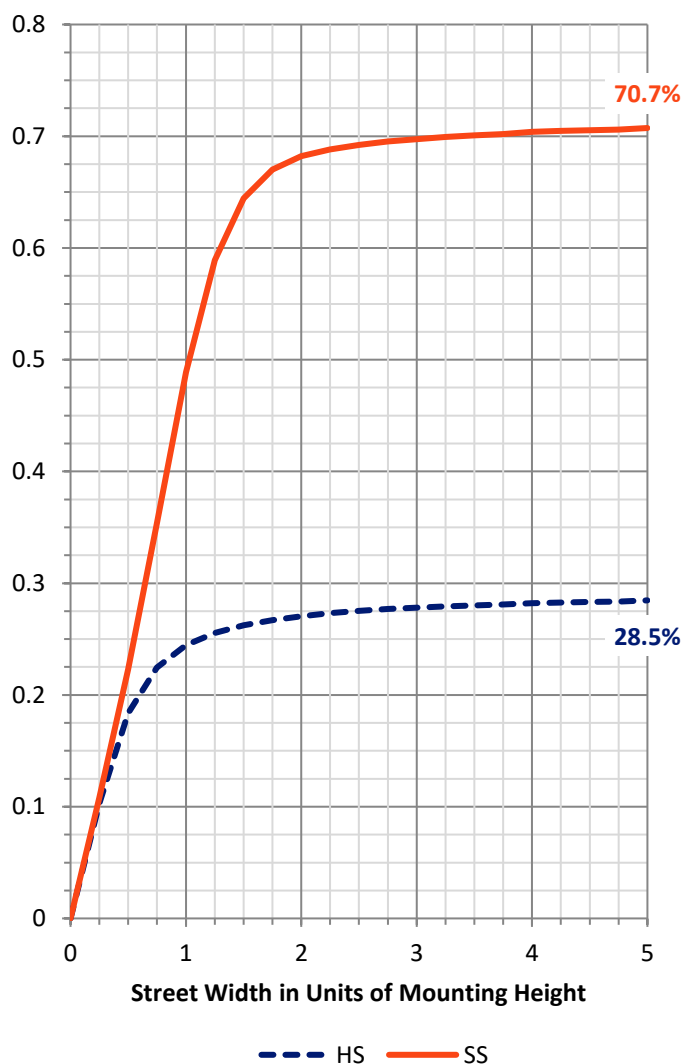
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8619.7	0.0	8619.7
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	21194.3	0.0	21194.3
	% Fixture	71.1	0.0	71.1
Total	Lumens	29814.0	0.0	29814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.9	1.2
10°-20°	1071.6	3.6
20°-30°	1903.4	6.4
30°-40°	3220.1	10.8
40°-50°	5605.6	18.8
50°-60°	7244.2	24.3
60°-70°	6339.1	21.3
70°-80°	3448.0	11.6
80°-90°	623.0	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°	29814.0	100.0
0°-180°	29814.0	100.0

Coefficient of Utilization



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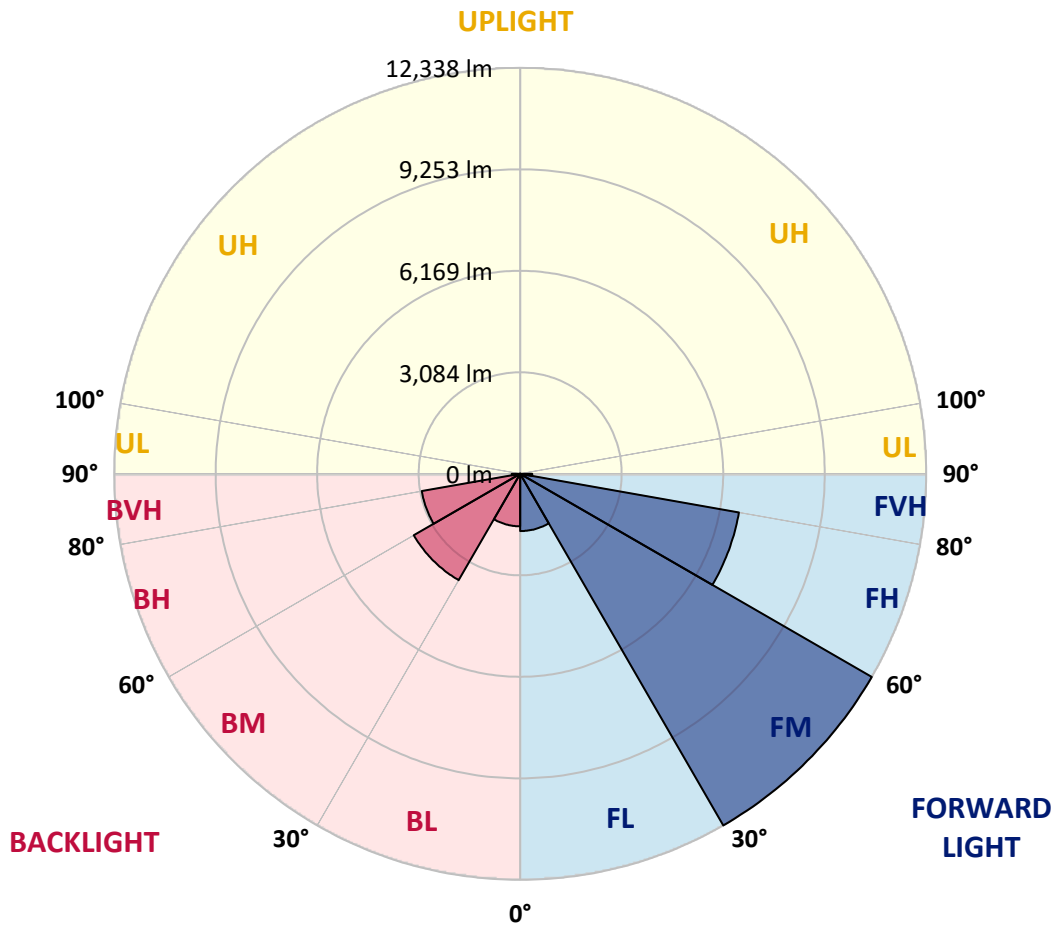
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1739.6	5.8			
FM (30°-60°)	12337.8	41.4			
FH (60°-80°)	6750.3	22.6			G3/7500
FVH (80°-90°)	366.6	1.2			G3/500
BL (0°-30°)	1594.3	5.3	B3/2500		
BM (30°-60°)	3732.1	12.5	B3/5000		
BH (60°-80°)	3036.8	10.2	B4/5000		G4/5000
BVH (80°-90°)	256.4	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°	3767.3	3767.3	3767.3	3767.3	3767.3	3767.3	3767.3	3767.3	3767.3	3767.3	3767.3
2.5°	3700.6	3696.6	3688.8	3696.6	3700.6	3708.4	3704.5	3712.3	3708.4	3720.2	3739.8
5°	3606.4	3598.5	3594.6	3614.2	3626.0	3645.6	3653.5	3681.0	3677.0	3696.6	3728.0
7.5°	3500.4	3500.4	3496.5	3520.1	3535.8	3571.1	3598.5	3645.6	3649.6	3684.9	3720.2
10°	3418.0	3422.0	3418.0	3437.6	3461.2	3504.4	3551.5	3618.2	3622.1	3673.1	3708.4
12.5°	3386.6	3386.6	3386.6	3414.1	3445.5	3504.4	3559.3	3629.9	3637.8	3692.7	3724.1
15°	3429.8	3433.7	3425.9	3453.3	3488.7	3559.3	3610.3	3684.9	3692.7	3743.7	3763.4
17.5°	3582.8	3598.5	3578.9	3594.6	3586.8	3641.7	3688.8	3763.4	3767.3	3810.5	3818.3
20°	3885.0	3900.7	3869.3	3849.7	3779.1	3775.1	3794.8	3853.6	3853.6	3881.1	3861.5
22.5°	4352.0	4367.7	4312.8	4238.2	4069.5	3987.0	3943.9	3971.3	3967.4	3979.2	3928.2
25°	4972.0	4968.1	4901.4	4764.0	4493.3	4293.1	4187.2	4144.0	4144.0	4120.5	4057.7
27.5°	5741.2	5682.3	5564.6	5399.8	5023.0	4744.4	4516.8	4406.9	4387.3	4316.7	4199.0
30°	6561.4	6518.2	6349.4	6110.1	5674.5	5317.4	4940.6	4720.9	4709.1	4556.1	4379.5
32.5°	7526.7	7456.1	7267.7	6981.3	6459.3	5957.0	5486.1	5152.5	5132.9	4889.6	4646.3
35°	8766.8	8707.9	8343.0	8056.5	7385.5	6726.2	6168.9	5725.5	5709.8	5411.5	5101.5
37.5°	10254.1	10101.0	9747.9	9210.2	8503.9	7722.9	7016.6	6459.3	6439.7	6110.1	5717.6
40°	11580.5	11443.1	11129.2	10634.7	9877.4	9010.1	8052.6	7377.6	7358.0	6957.7	6463.3
42.5°	12561.5	12467.4	12263.3	11976.8	11435.3	10909.4	9375.0	8488.2	8452.8	7934.8	7318.7
45°	13130.6	13056.0	12938.3	13008.9	13001.1	12903.0	10952.6	9810.6	9696.8	9025.8	8272.3
47.5°	12993.2	12926.5	12973.6	13523.0	14280.4	14849.4	12789.2	11164.5	11011.5	10136.4	9288.7
50°	12000.4	12027.8	12275.1	13326.8	15026.0	16289.6	14825.8	12706.7	12502.7	11254.8	10254.1
52.5°	10191.3	10258.0	10858.4	12330.0	14943.6	17223.6	16666.3	14300.0	14029.2	12345.7	11133.1
55°	8095.7	8264.5	9041.5	10587.6	13868.3	17290.3	18055.5	15901.1	15602.8	13369.9	11898.3
57.5°	5988.4	6239.6	7138.2	8558.8	11808.1	16234.6	18750.1	17431.5	17070.5	14386.3	12706.7
60°	3798.7	3951.7	4987.7	6663.4	9037.6	13652.5	18659.8	18734.4	18420.5	15398.8	13550.5
62.5°	2425.2	2499.8	3021.7	4752.3	6318.1	10108.9	17674.9	19719.4	19507.5	16321.0	14351.0
65°	1557.9	1589.3	1856.2	2923.6	4301.0	6102.2	15222.2	19825.3	19852.8	16897.8	14845.5
67.5°	1267.5	1283.2	1381.3	1805.2	3041.3	3370.9	10603.3	18318.4	18652.0	16748.7	14676.7
70°	1153.7	1173.4	1275.4	1440.2	2354.6	2327.1	5132.9	15328.1	15873.6	15889.3	13927.2
72.5°	973.2	1000.7	1138.0	1361.7	1820.9	1836.6	2174.0	10917.3	11721.8	14201.9	12800.9
75°	812.3	828.0	945.7	1200.8	1542.2	1467.7	1526.5	5788.3	6949.9	11388.2	11604.0
77.5°	659.3	675.0	761.3	957.5	1369.6	1142.0	1200.8	2397.7	2962.8	7730.8	9484.9
80°	470.9	486.6	584.7	745.6	1036.0	1028.2	890.8	1322.5	1436.3	4179.3	6161.1
82.5°	337.5	349.3	443.4	533.7	718.1	1032.1	671.0	898.7	941.8	1852.2	2484.1
85°	227.6	227.6	306.1	353.2	463.1	651.4	541.5	608.3	635.7	879.0	671.0
87.5°	98.1	98.1	164.8	180.5	243.3	302.2	404.2	306.1	313.9	474.8	274.7
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°	3767.3	3767.3	3767.3	3767.3	3767.3	3767.3	3767.3	3767.3	3767.3	3767.3	3767.3
2.5°	3751.6	3755.5	3763.4	3786.9	3802.6	3826.1	3837.9	3853.6	3853.6	3845.8	3849.7
5°	3743.7	3755.5	3783.0	3826.1	3853.6	3896.8	3928.2	3951.7	3959.6	3951.7	3955.7
7.5°	3739.8	3759.4	3806.5	3869.3	3908.6	3963.5	4006.7	4034.1	4053.8	4045.9	4049.8
10°	3728.0	3759.4	3818.3	3896.8	3955.7	4010.6	4049.8	4061.6	4073.4	4065.5	4061.6
12.5°	3743.7	3779.1	3841.8	3936.0	4002.7	4045.9	4057.7	4038.1	4010.6	3994.9	3991.0
15°	3775.1	3810.5	3873.2	3971.3	4030.2	4045.9	4018.4	3955.7	3892.9	3857.5	3853.6
17.5°	3818.3	3841.8	3892.9	3979.2	4026.3	4006.7	3951.7	3877.2	3830.1	3802.6	3806.5
20°	3845.8	3845.8	3885.0	3951.7	3991.0	3975.3	3908.6	3826.1	3751.6	3716.3	3704.5
22.5°	3885.0	3865.4	3869.3	3928.2	3983.1	3959.6	3818.3	3673.1	3567.1	3527.9	3524.0
25°	3991.0	3936.0	3900.7	3936.0	4065.5	3873.2	3590.7	3422.0	3323.8	3288.5	3292.5
27.5°	4120.5	4045.9	3971.3	4030.2	4132.2	3677.0	3300.3	3108.0	3049.1	3021.7	3033.5
30°	4250.0	4151.9	4053.8	4265.7	4085.2	3370.9	2927.5	2739.1	2688.1	2668.5	2684.2
32.5°	4489.3	4328.5	4210.7	4579.6	3940.0	3021.7	2523.3	2350.6	2303.5	2280.0	2272.1
35°	4889.6	4685.6	4567.8	4854.3	3735.9	2633.2	2154.4	2032.8	1981.7	1930.7	1922.9
37.5°	5466.5	5219.3	5113.3	5011.3	3449.4	2248.6	1871.9	1789.5	1714.9	1636.4	1632.5
40°	6157.2	5835.4	5756.9	5081.9	3053.1	1887.6	1675.7	1597.2	1503.0	1428.4	1432.4
42.5°	6953.8	6541.7	6373.0	5062.3	2562.5	1695.3	1534.4	1448.1	1365.6	1298.9	1295.0
45°	7805.3	7338.4	6949.9	4924.9	2075.9	1561.9	1448.1	1346.0	1263.6	1189.0	1181.2
47.5°	8747.2	8225.2	7483.6	4658.1	1714.9	1467.7	1397.0	1251.8	1177.3	1130.2	1130.2
50°	9696.8	9072.9	7974.1	4253.9	1503.0	1397.0	1322.5	1200.8	1142.0	1102.7	1102.7
52.5°	10509.2	9955.8	8378.3	3771.2	1369.6	1338.2	1271.5	1177.3	1114.5	1079.2	1075.2
55°	11297.9	10776.0	8739.3	3292.5	1259.7	1259.7	1259.7	1157.7	1087.0	1055.6	1051.7
57.5°	12082.8	11639.3	9116.0	2978.5	1161.6	1193.0	1236.1	1134.1	1063.5	1036.0	1032.1
60°	12969.7	12675.3	9551.6	2758.8	1075.2	1122.3	1204.7	1106.6	1024.2	1000.7	996.8
62.5°	13911.5	13911.5	9948.0	2448.7	996.8	1063.5	1157.7	1071.3	988.9	969.3	965.4
65°	14649.2	14967.1	10203.1	1985.7	918.3	1004.6	1102.7	1024.2	941.8	937.9	930.0
67.5°	14735.6	15234.0	10042.2	1499.1	847.6	941.8	1047.8	973.2	894.7	894.7	883.0
70°	14115.6	14621.8	9539.9	1122.3	796.6	879.0	977.1	910.4	835.9	843.7	824.1
72.5°	13079.5	13205.1	8292.0	886.9	737.8	812.3	890.8	839.8	773.1	773.1	745.6
75°	11713.9	11015.4	6023.7	741.7	667.1	733.8	804.5	761.3	702.4	682.8	667.1
77.5°	9324.0	7981.9	3500.4	639.7	608.3	659.3	706.4	675.0	624.0	580.8	580.8
80°	5682.3	4677.7	1546.2	553.3	537.6	576.9	608.3	572.9	529.8	486.6	474.8
82.5°	2162.3	1805.2	749.5	474.8	470.9	494.5	518.0	482.7	451.3	431.7	372.8
85°	592.6	545.5	514.1	396.3	388.5	384.6	412.0	396.3	353.2	290.4	259.0
87.5°	223.7	255.1	278.6	243.3	259.0	239.4	274.7	251.2	223.7	145.2	129.5
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)