

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: P399933

Luminaire Tested: **ARCH-L-PA3-210-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399933
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-PA3-210-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 29815 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

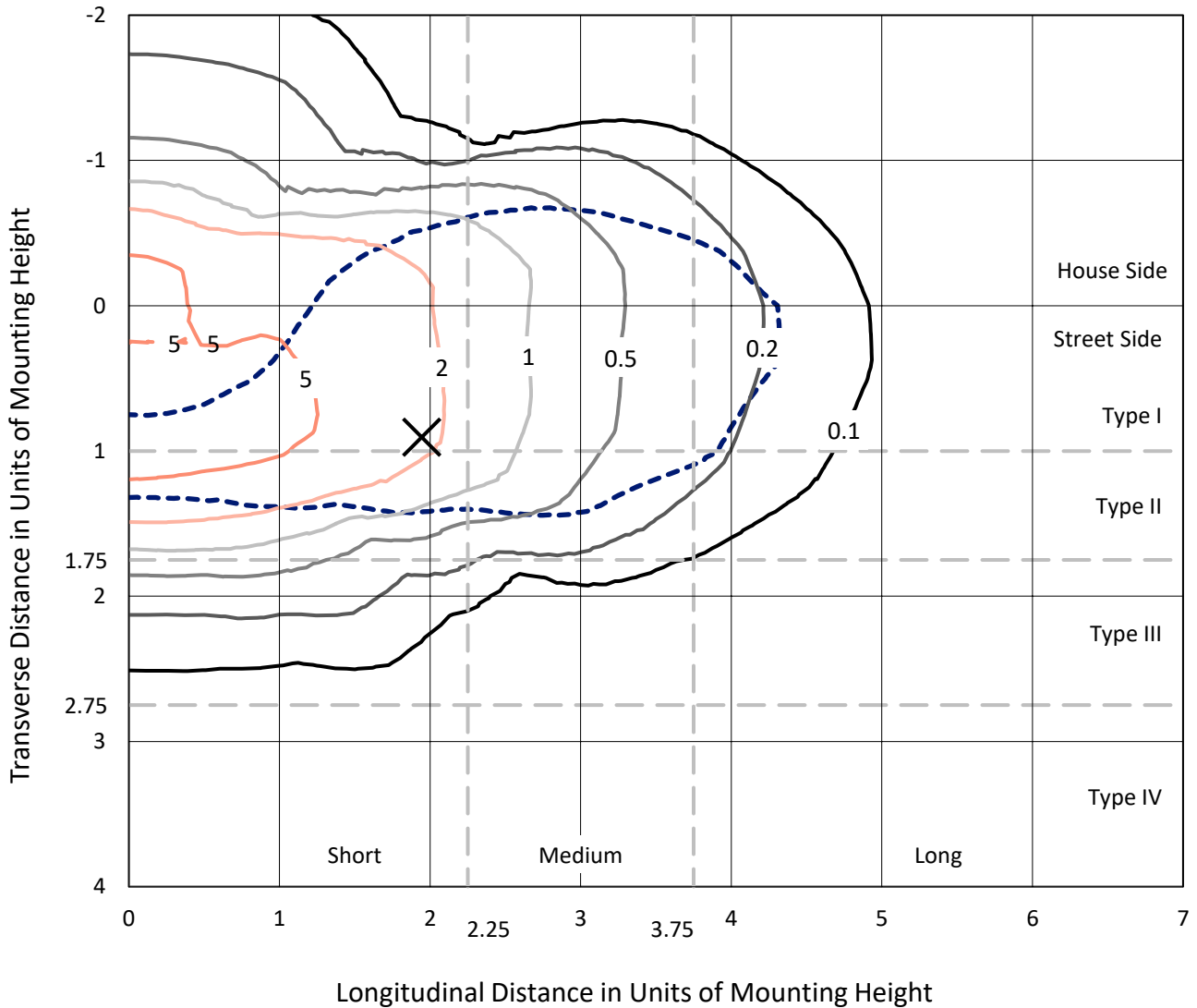
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

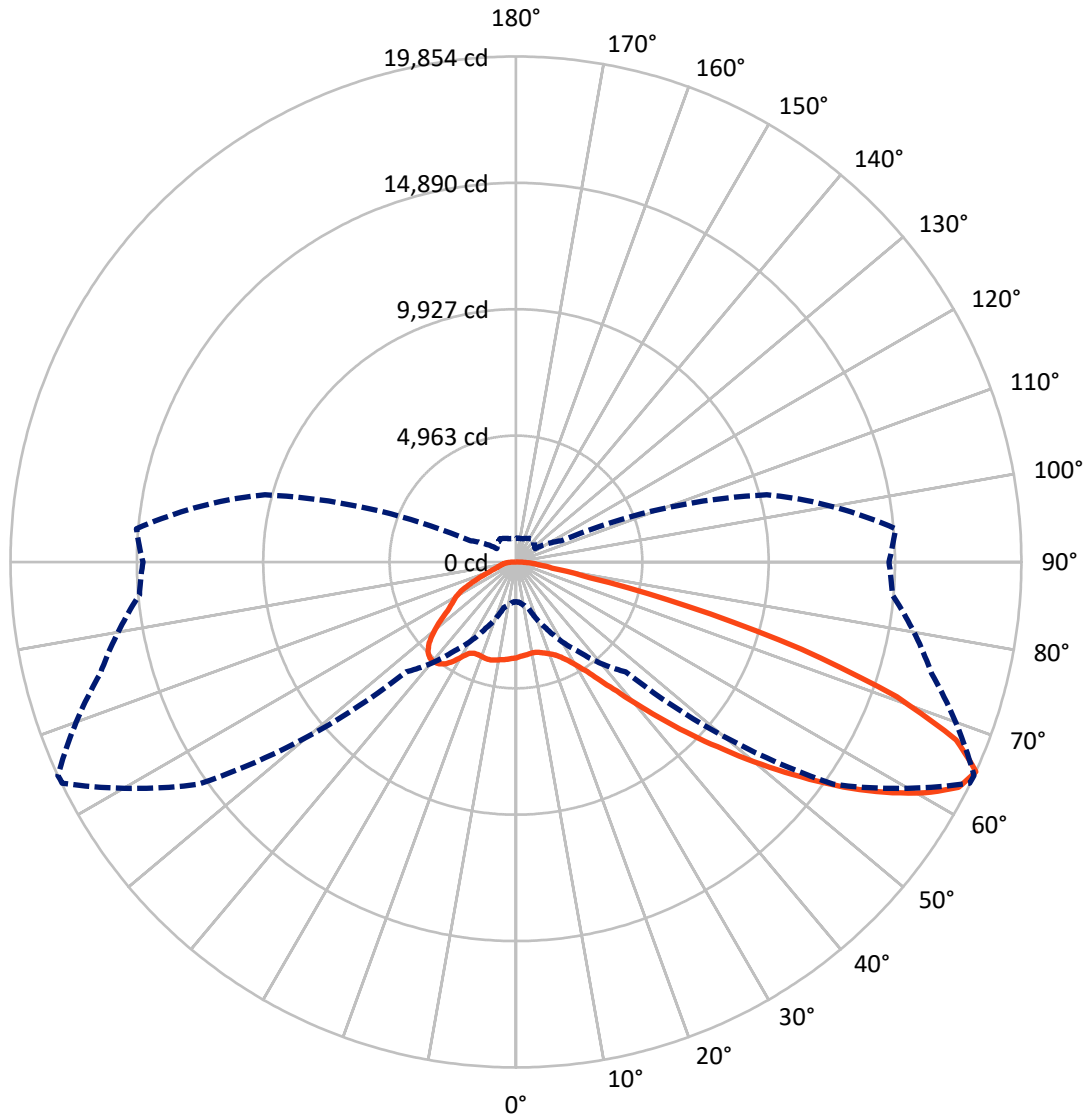
✕ Max cd
 - - - 1/2 Max cd



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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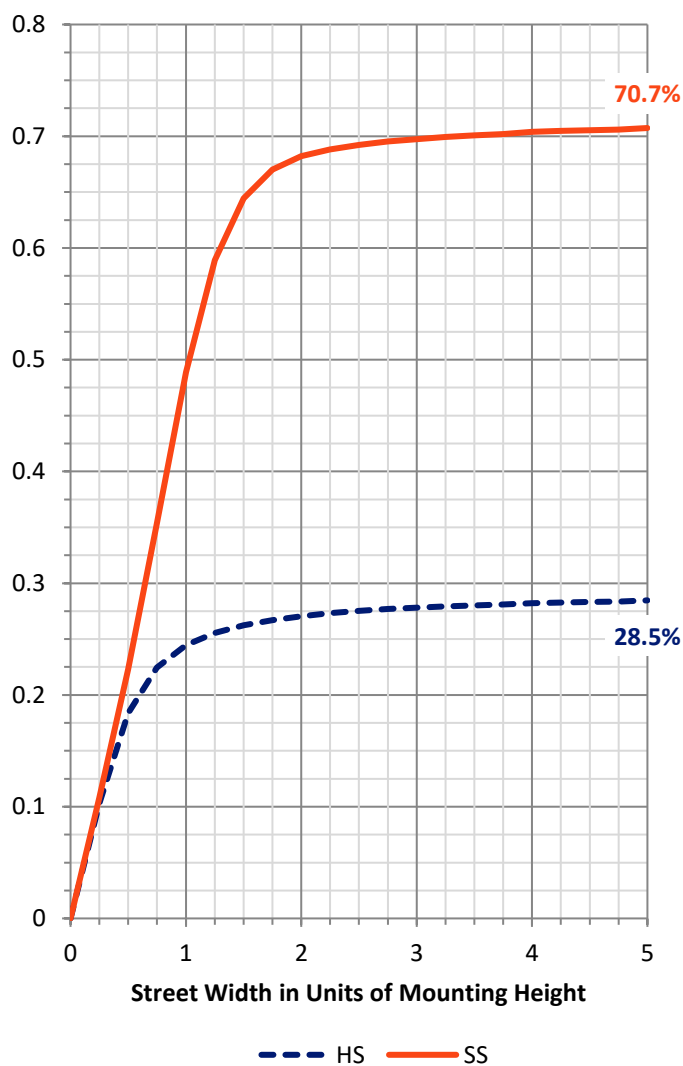
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8620.0	0.0	8620.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	21195.0	0.0	21195.0
	% Fixture	71.1	0.0	71.1
Total	Lumens	29815.0	0.0	29815.0
	% 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°	1903.5	6.4
30°-40°	3220.2	10.8
40°-50°	5605.8	18.8
50°-60°	7244.5	24.3
60°-70°	6339.3	21.3
70°-80°	3448.1	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°	29815.0	100.0
0°-180°	29815.0	100.0

Coefficient of Utilization



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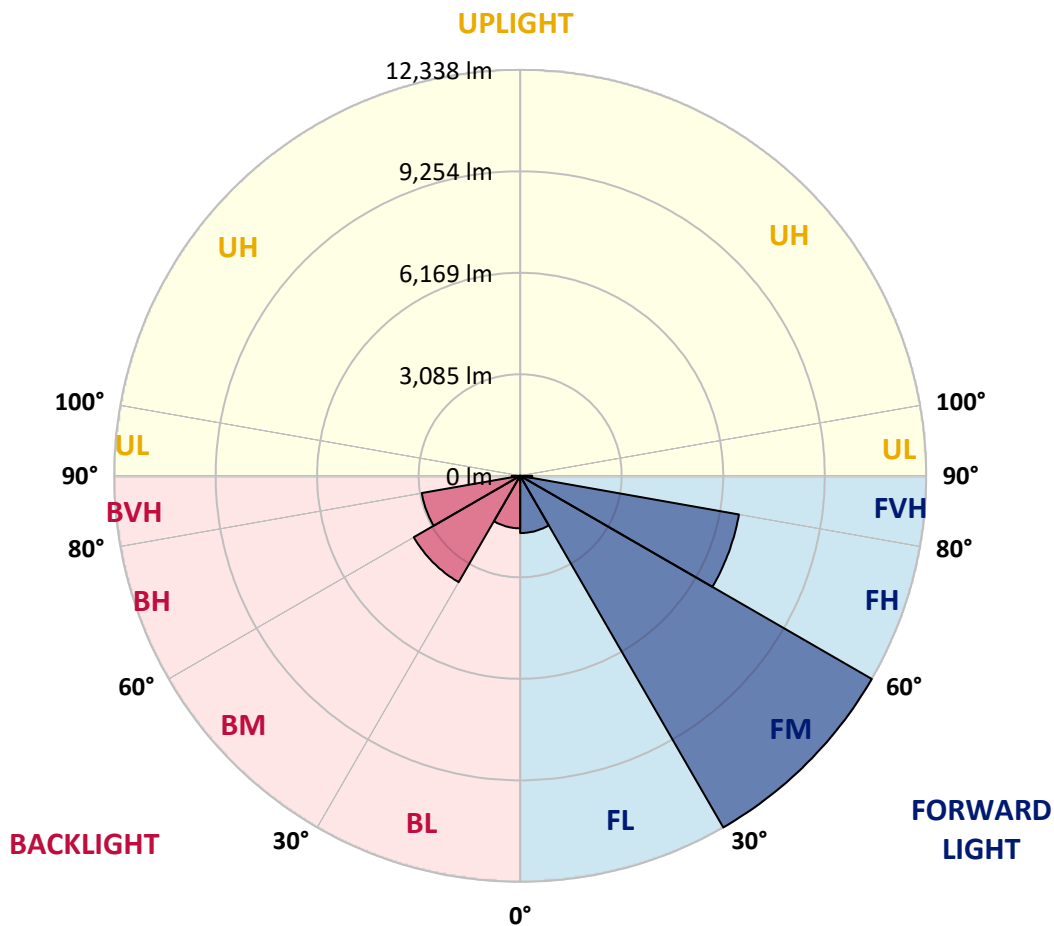
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1739.6	5.8			
FM (30°-60°)	12338.3	41.4			
FH (60°-80°)	6750.5	22.6			G3/7500
FVH (80°-90°)	366.6	1.2			G3/500
BL (0°-30°)	1594.4	5.3	B3/2500		
BM (30°-60°)	3732.2	12.5	B3/5000		
BH (60°-80°)	3036.9	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°	3767.4	3767.4	3767.4	3767.4	3767.4	3767.4	3767.4	3767.4	3767.4	3767.4	3767.4
2.5°	3700.7	3696.8	3688.9	3696.8	3700.7	3708.5	3704.6	3712.5	3708.5	3720.3	3739.9
5°	3606.5	3598.7	3594.7	3614.4	3626.1	3645.8	3653.6	3681.1	3677.2	3696.8	3728.2
7.5°	3500.6	3500.6	3496.6	3520.2	3535.9	3571.2	3598.7	3645.8	3649.7	3685.0	3720.3
10°	3418.1	3422.1	3418.1	3437.8	3461.3	3504.5	3551.6	3618.3	3622.2	3673.2	3708.5
12.5°	3386.7	3386.7	3386.7	3414.2	3445.6	3504.5	3559.4	3630.1	3637.9	3692.8	3724.2
15°	3429.9	3433.8	3426.0	3453.5	3488.8	3559.4	3610.4	3685.0	3692.8	3743.9	3763.5
17.5°	3583.0	3598.7	3579.0	3594.7	3586.9	3641.8	3688.9	3763.5	3767.4	3810.6	3818.4
20°	3885.1	3900.8	3869.4	3849.8	3779.2	3775.3	3794.9	3853.7	3853.7	3881.2	3861.6
22.5°	4352.1	4367.8	4312.9	4238.3	4069.6	3987.2	3944.0	3971.5	3967.6	3979.3	3928.3
25°	4972.2	4968.3	4901.6	4764.2	4493.4	4293.3	4187.3	4144.2	4144.2	4120.6	4057.8
27.5°	5741.4	5682.5	5564.8	5400.0	5023.2	4744.6	4517.0	4407.1	4387.5	4316.8	4199.1
30°	6561.6	6518.4	6349.7	6110.3	5674.7	5317.5	4940.8	4721.0	4709.3	4556.2	4379.6
32.5°	7527.0	7456.3	7268.0	6981.5	6459.5	5957.2	5486.3	5152.7	5133.1	4889.8	4646.5
35°	8767.1	8708.2	8343.2	8056.8	7385.7	6726.4	6169.1	5725.7	5710.0	5411.7	5101.7
37.5°	10254.4	10101.4	9748.2	9210.5	8504.1	7723.2	7016.8	6459.5	6439.9	6110.3	5717.8
40°	11580.9	11443.5	11129.6	10635.1	9877.7	9010.4	8052.8	7377.8	7358.2	6957.9	6463.5
42.5°	12562.0	12467.8	12263.7	11977.2	11435.7	10909.8	9375.4	8488.5	8453.1	7935.1	7319.0
45°	13131.0	13056.4	12938.7	13009.3	13001.5	12903.4	10953.0	9811.0	9697.2	9026.1	8272.6
47.5°	12993.6	12926.9	12974.0	13523.4	14280.8	14849.9	12789.6	11164.9	11011.8	10136.7	9289.0
50°	12000.8	12028.2	12275.5	13327.2	15026.5	16290.1	14826.3	12707.2	12503.1	11255.1	10254.4
52.5°	10191.6	10258.4	10858.8	12330.4	14944.1	17224.1	16666.9	14300.5	14029.7	12346.1	11133.5
55°	8096.0	8264.8	9041.8	10588.0	13868.8	17290.9	18056.1	15901.6	15603.4	13370.4	11898.7
57.5°	5988.6	6239.8	7138.5	8559.1	11808.5	16235.2	18750.7	17432.1	17071.1	14386.8	12707.2
60°	3798.8	3951.9	4987.9	6663.6	9037.9	13652.9	18660.5	18735.0	18421.1	15399.3	13550.9
62.5°	2425.3	2499.8	3021.8	4752.4	6318.3	10109.2	17675.4	19720.0	19508.1	16321.5	14351.5
65°	1558.0	1589.4	1856.2	2923.7	4301.1	6102.4	15222.7	19826.0	19853.5	16898.4	14846.0
67.5°	1267.6	1283.3	1381.4	1805.2	3041.4	3371.0	10603.7	18319.0	18652.6	16749.3	14677.2
70°	1153.8	1173.4	1275.4	1440.3	2354.6	2327.2	5133.1	15328.7	15874.1	15889.8	13927.7
72.5°	973.2	1000.7	1138.1	1361.8	1820.9	1836.6	2174.1	10917.6	11722.1	14202.4	12801.4
75°	812.3	828.0	945.8	1200.9	1542.3	1467.7	1526.6	5788.5	6950.1	11388.6	11604.4
77.5°	659.3	675.0	761.3	957.6	1369.6	1142.0	1200.9	2397.8	2962.9	7731.0	9485.2
80°	470.9	486.6	584.7	745.6	1036.0	1028.2	890.8	1322.5	1436.3	4179.5	6161.3
82.5°	337.5	349.3	443.5	533.7	718.2	1032.1	671.1	898.7	941.9	1852.3	2484.1
85°	227.6	227.6	306.1	353.2	463.1	651.4	541.6	608.3	635.8	879.1	671.1
87.5°	98.1	98.1	164.8	180.5	243.3	302.2	404.2	306.1	314.0	474.9	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°	3767.4	3767.4	3767.4	3767.4	3767.4	3767.4	3767.4	3767.4	3767.4	3767.4	3767.4
2.5°	3751.7	3755.6	3763.5	3787.0	3802.7	3826.3	3838.1	3853.7	3853.7	3845.9	3849.8
5°	3743.9	3755.6	3783.1	3826.3	3853.7	3896.9	3928.3	3951.9	3959.7	3951.9	3955.8
7.5°	3739.9	3759.6	3806.7	3869.4	3908.7	3963.6	4006.8	4034.3	4053.9	4046.0	4050.0
10°	3728.2	3759.6	3818.4	3896.9	3955.8	4010.7	4050.0	4061.7	4073.5	4065.7	4061.7
12.5°	3743.9	3779.2	3842.0	3936.2	4002.9	4046.0	4057.8	4038.2	4010.7	3995.0	3991.1
15°	3775.3	3810.6	3873.4	3971.5	4030.3	4046.0	4018.6	3955.8	3893.0	3857.7	3853.7
17.5°	3818.4	3842.0	3893.0	3979.3	4026.4	4006.8	3951.9	3877.3	3830.2	3802.7	3806.7
20°	3845.9	3845.9	3885.1	3951.9	3991.1	3975.4	3908.7	3826.3	3751.7	3716.4	3704.6
22.5°	3885.1	3865.5	3869.4	3928.3	3983.3	3959.7	3818.4	3673.2	3567.3	3528.0	3524.1
25°	3991.1	3936.2	3900.8	3936.2	4065.7	3873.4	3590.8	3422.1	3324.0	3288.6	3292.6
27.5°	4120.6	4046.0	3971.5	4030.3	4132.4	3677.2	3300.4	3108.1	3049.2	3021.8	3033.6
30°	4250.1	4152.0	4053.9	4265.8	4085.3	3371.0	2927.6	2739.2	2688.2	2668.6	2684.3
32.5°	4489.5	4328.6	4210.9	4579.8	3940.1	3021.8	2523.4	2350.7	2303.6	2280.1	2272.2
35°	4889.8	4685.7	4568.0	4854.5	3736.0	2633.3	2154.5	2032.8	1981.8	1930.8	1923.0
37.5°	5466.7	5219.4	5113.5	5011.4	3449.5	2248.7	1871.9	1789.5	1715.0	1636.5	1632.5
40°	6157.4	5835.6	5757.1	5082.1	3053.2	1887.6	1675.7	1597.2	1503.0	1428.5	1432.4
42.5°	6954.0	6542.0	6373.2	5062.5	2562.6	1695.3	1534.4	1448.1	1365.7	1299.0	1295.0
45°	7805.6	7338.6	6950.1	4925.1	2076.0	1561.9	1448.1	1346.1	1263.7	1189.1	1181.2
47.5°	8747.5	8225.5	7483.8	4658.2	1715.0	1467.7	1397.1	1251.9	1177.3	1130.2	1130.2
50°	9697.2	9073.2	7974.4	4254.0	1503.0	1397.1	1322.5	1200.9	1142.0	1102.8	1102.8
52.5°	10509.5	9956.2	8378.6	3771.3	1369.6	1338.2	1271.5	1177.3	1114.5	1079.2	1075.3
55°	11298.3	10776.4	8739.6	3292.6	1259.7	1259.7	1259.7	1157.7	1087.1	1055.7	1051.7
57.5°	12083.2	11639.7	9116.4	2978.6	1161.6	1193.0	1236.2	1134.1	1063.5	1036.0	1032.1
60°	12970.1	12675.8	9552.0	2758.8	1075.3	1122.4	1204.8	1106.7	1024.3	1000.7	996.8
62.5°	13912.0	13912.0	9948.3	2448.8	996.8	1063.5	1157.7	1071.4	988.9	969.3	965.4
65°	14649.7	14967.6	10203.4	1985.7	918.3	1004.6	1102.8	1024.3	941.9	937.9	930.1
67.5°	14736.1	15234.5	10042.5	1499.1	847.7	941.9	1047.8	973.2	894.8	894.8	883.0
70°	14116.0	14622.3	9540.2	1122.4	796.7	879.1	977.2	910.5	835.9	843.7	824.1
72.5°	13080.0	13205.6	8292.2	886.9	737.8	812.3	890.8	839.8	773.1	773.1	745.6
75°	11714.3	11015.8	6023.9	741.7	667.1	733.9	804.5	761.3	702.5	682.8	667.1
77.5°	9324.3	7982.2	3500.6	639.7	608.3	659.3	706.4	675.0	624.0	580.8	580.8
80°	5682.5	4677.9	1546.2	553.3	537.6	576.9	608.3	573.0	529.8	486.6	474.9
82.5°	2162.3	1805.2	749.6	474.9	470.9	494.5	518.0	482.7	451.3	431.7	372.8
85°	592.6	545.5	514.1	396.4	388.5	384.6	412.1	396.4	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)