

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: P400275

Luminaire Tested: **ARCH-L-PA3-260-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400275
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-PA3-260-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28639 lumens
Efficiency: N/A
Efficacy: 109.7 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

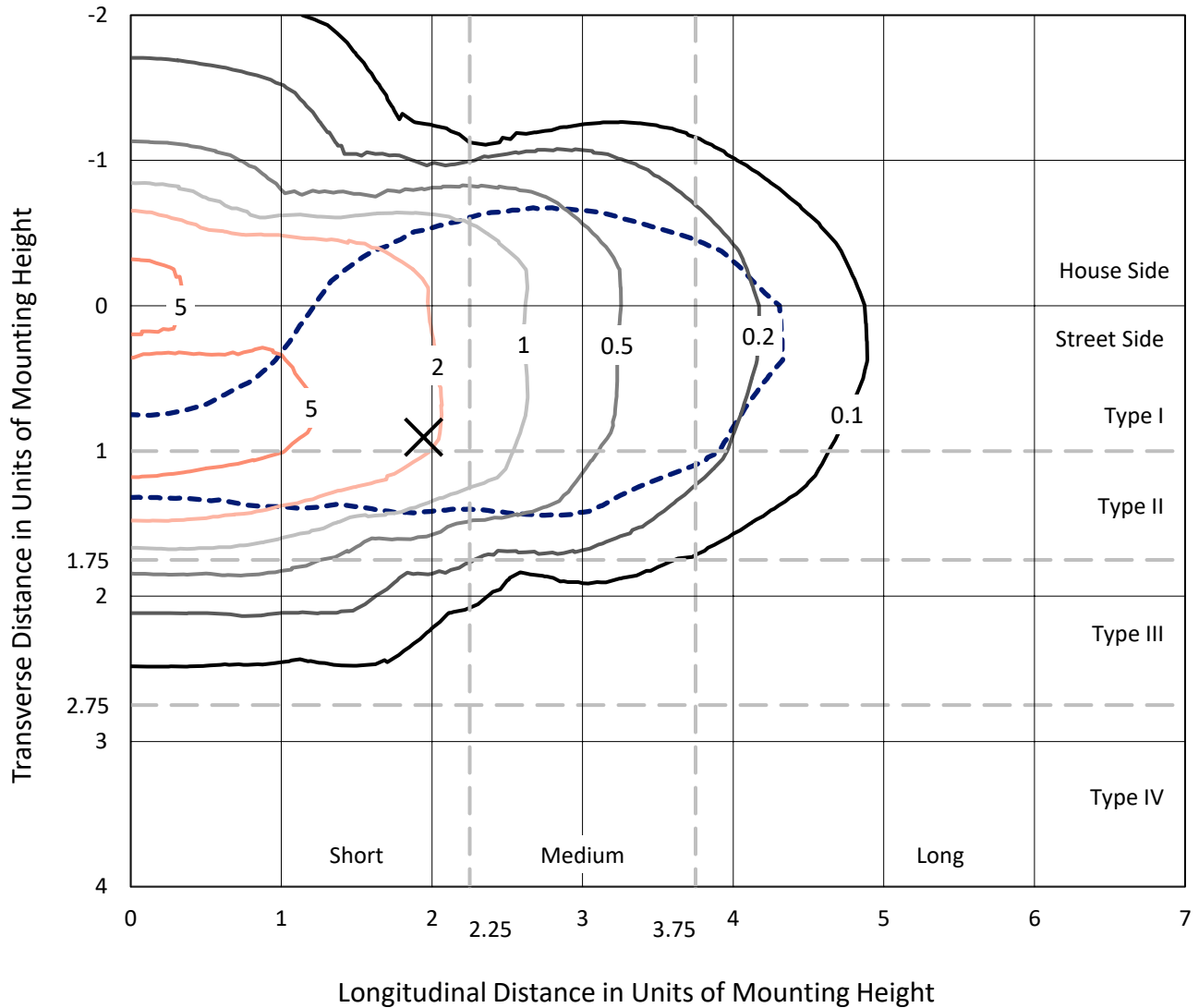
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

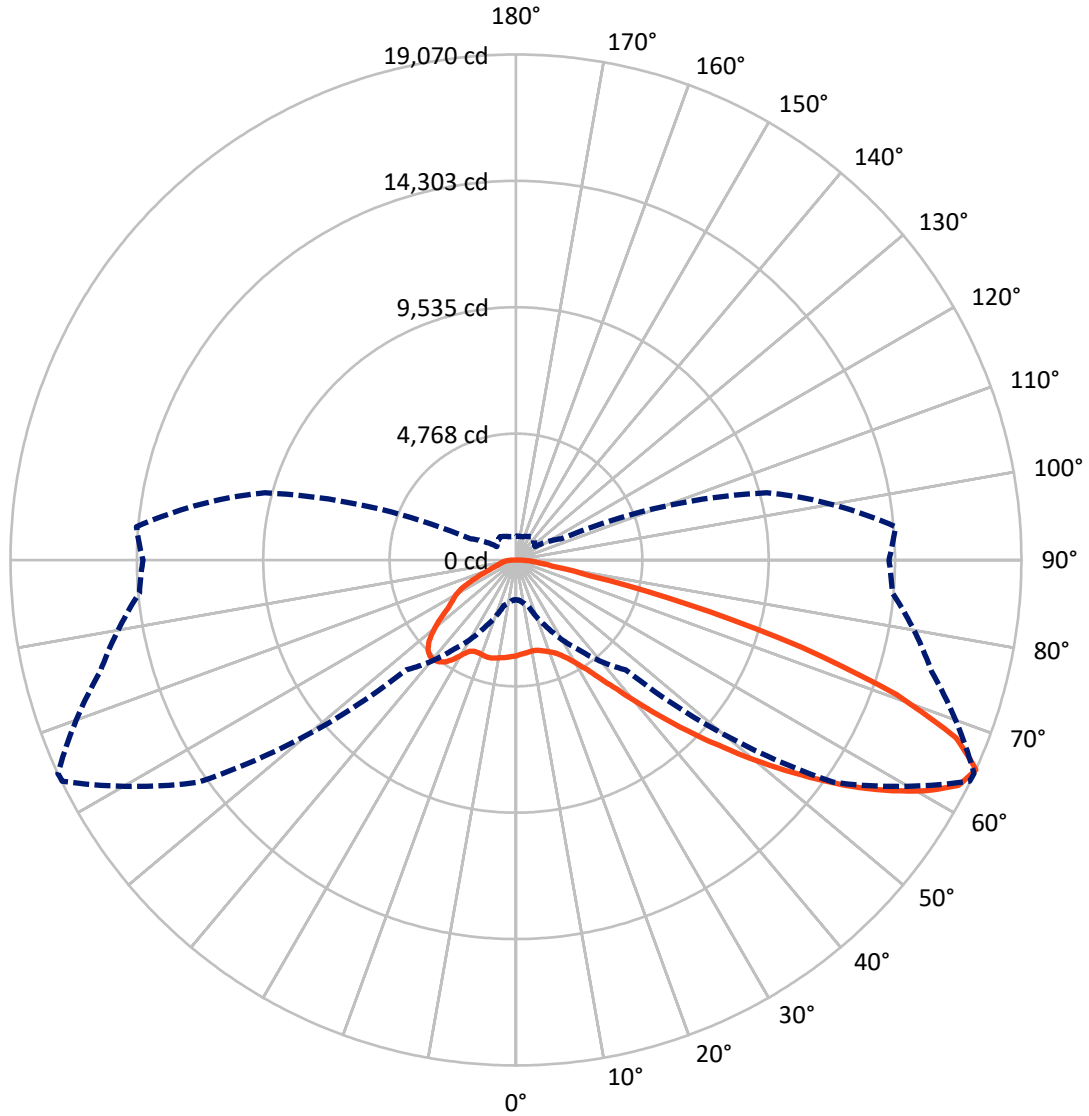
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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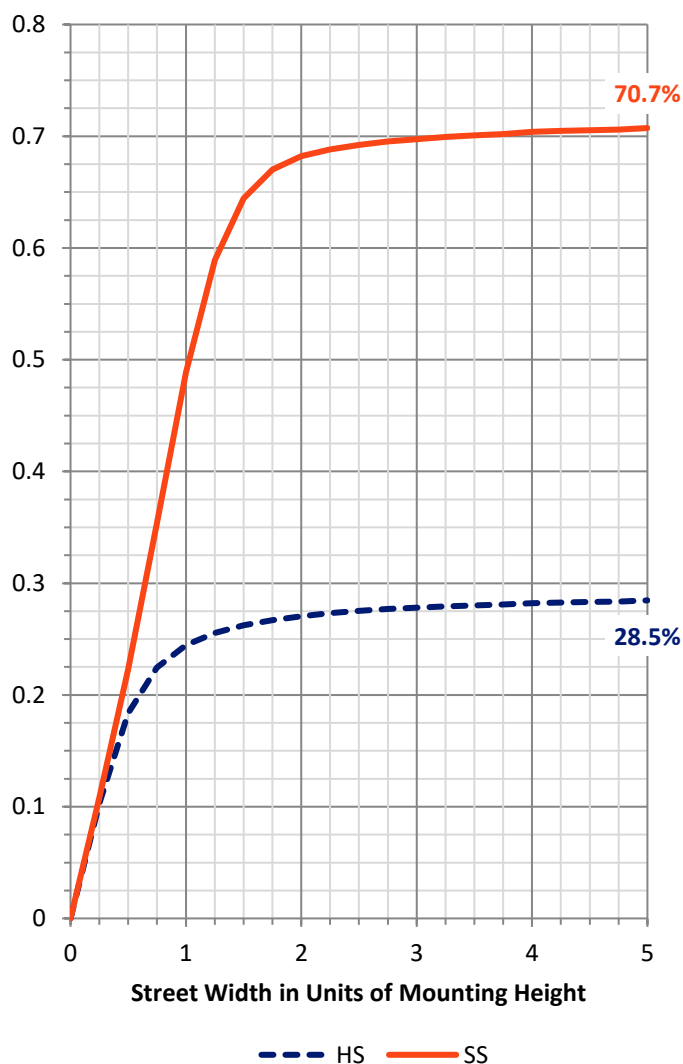
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8280.0	0.0	8280.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	20359.1	0.0	20359.1
	% Fixture	71.1	0.0	71.1
Total	Lumens	28639.0	0.0	28639.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.8	1.2
10°-20°	1029.3	3.6
20°-30°	1828.4	6.4
30°-40°	3093.2	10.8
40°-50°	5384.7	18.8
50°-60°	6958.7	24.3
60°-70°	6089.3	21.3
70°-80°	3312.1	11.6
80°-90°	598.4	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°	28639.0	100.0
0°-180°	28639.0	100.0

Coefficient of Utilization



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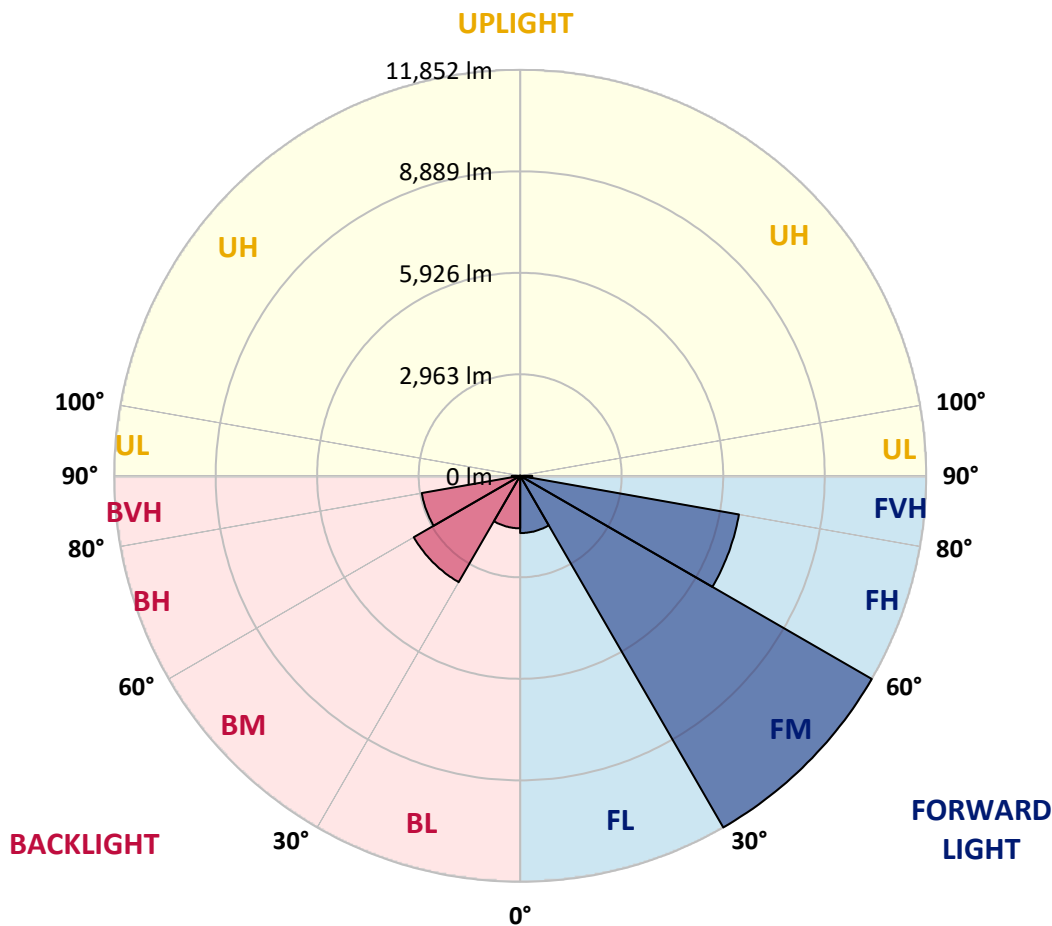
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1671.0	5.8			
FM (30°-60°)	11851.6	41.4			
FH (60°-80°)	6484.3	22.6			G3/7500
FVH (80°-90°)	352.2	1.2			G3/500
BL (0°-30°)	1531.5	5.3	B3/2500		
BM (30°-60°)	3585.0	12.5	B3/5000		
BH (60°-80°)	2917.1	10.2	B4/5000		G4/5000
BVH (80°-90°)	246.3	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°	3618.8	3618.8	3618.8	3618.8	3618.8	3618.8	3618.8	3618.8	3618.8	3618.8	3618.8
2.5°	3554.7	3551.0	3543.4	3551.0	3554.7	3562.3	3558.5	3566.0	3562.3	3573.6	3592.4
5°	3464.3	3456.7	3453.0	3471.8	3483.1	3502.0	3509.5	3535.9	3532.1	3551.0	3581.1
7.5°	3362.5	3362.5	3358.7	3381.3	3396.4	3430.3	3456.7	3502.0	3505.7	3539.7	3573.6
10°	3283.3	3287.1	3283.3	3302.2	3324.8	3366.3	3411.5	3475.6	3479.3	3528.3	3562.3
12.5°	3253.2	3253.2	3253.2	3279.5	3309.7	3366.3	3419.0	3486.9	3494.4	3547.2	3577.3
15°	3294.6	3298.4	3290.9	3317.2	3351.2	3419.0	3468.0	3539.7	3547.2	3596.2	3615.0
17.5°	3441.6	3456.7	3437.9	3453.0	3445.4	3498.2	3543.4	3615.0	3618.8	3660.3	3667.8
20°	3731.9	3747.0	3716.8	3698.0	3630.1	3626.4	3645.2	3701.7	3701.7	3728.1	3709.3
22.5°	4180.5	4195.6	4142.8	4071.2	3909.1	3829.9	3788.4	3814.8	3811.1	3822.4	3773.4
25°	4776.1	4772.3	4708.2	4576.3	4316.2	4123.9	4022.2	3980.7	3980.7	3958.1	3897.8
27.5°	5514.9	5458.4	5345.3	5187.0	4825.1	4557.4	4338.8	4233.3	4214.4	4146.6	4033.5
30°	6302.8	6261.3	6099.2	5869.3	5450.8	5107.8	4745.9	4534.8	4523.5	4376.5	4206.9
32.5°	7230.1	7162.2	6981.3	6706.1	6204.8	5722.2	5269.9	4949.5	4930.6	4696.9	4463.2
35°	8421.3	8364.7	8014.2	7739.0	7094.4	6461.1	5925.8	5499.8	5484.8	5198.3	4900.5
37.5°	9850.0	9702.9	9363.7	8847.2	8168.7	7418.6	6740.0	6204.8	6185.9	5869.3	5492.3
40°	11124.1	10992.1	10690.6	10215.6	9488.1	8655.0	7735.2	7086.8	7068.0	6683.5	6208.5
42.5°	12066.5	11976.0	11780.0	11504.8	10984.6	10479.5	9005.6	8153.6	8119.7	7622.1	7030.3
45°	12613.1	12541.5	12428.4	12496.2	12488.7	12394.4	10520.9	9424.0	9314.7	8670.1	7946.3
47.5°	12481.1	12417.1	12462.3	12990.0	13717.6	14264.2	12285.1	10724.5	10577.5	9736.9	8922.6
50°	11527.4	11553.8	11791.3	12801.6	14433.8	15647.6	14241.5	12206.0	12009.9	10811.2	9850.0
52.5°	9789.6	9853.7	10430.5	11844.1	14354.6	16544.8	16009.5	13736.4	13476.3	11859.2	10694.3
55°	7776.7	7938.8	8685.2	10170.4	13321.8	16608.8	17343.9	15274.4	14987.9	12843.0	11429.4
57.5°	5752.4	5993.7	6856.9	8221.5	11342.7	15594.8	18011.1	16744.6	16397.7	13819.3	12206.0
60°	3649.0	3796.0	4791.2	6400.8	8681.4	13114.4	17924.4	17996.1	17694.5	14791.9	13016.4
62.5°	2329.6	2401.2	2902.6	4565.0	6069.1	9710.5	16978.3	18942.2	18738.7	15677.8	13785.4
65°	1496.5	1526.7	1783.0	2808.4	4131.5	5861.7	14622.3	19044.0	19070.4	16231.9	14260.4
67.5°	1217.6	1232.7	1326.9	1734.0	2921.4	3238.1	10185.5	17596.5	17916.9	16088.6	14098.3
70°	1108.3	1127.1	1225.1	1383.4	2261.8	2235.4	4930.6	14724.0	15248.0	15263.1	13378.3
72.5°	934.9	961.2	1093.2	1308.1	1749.1	1764.2	2088.4	10487.0	11259.8	13642.2	12296.4
75°	780.3	795.4	908.5	1153.5	1481.5	1409.8	1466.4	5560.2	6676.0	10939.4	11146.7
77.5°	633.3	648.4	731.3	919.8	1315.6	1097.0	1153.5	2303.2	2846.0	7426.1	9111.1
80°	452.4	467.4	561.7	716.2	995.2	987.6	855.7	1270.4	1379.7	4014.6	5918.3
82.5°	324.2	335.5	426.0	512.7	689.8	991.4	644.6	863.2	904.7	1779.2	2386.2
85°	218.6	218.6	294.0	339.3	444.8	625.8	520.2	584.3	610.7	844.4	644.6
87.5°	94.2	94.2	158.3	173.4	233.7	290.3	388.3	294.0	301.6	456.1	263.9
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°	3618.8	3618.8	3618.8	3618.8	3618.8	3618.8	3618.8	3618.8	3618.8	3618.8	3618.8
2.5°	3603.7	3607.5	3615.0	3637.7	3652.7	3675.4	3686.7	3701.7	3701.7	3694.2	3698.0
5°	3596.2	3607.5	3633.9	3675.4	3701.7	3743.2	3773.4	3796.0	3803.5	3796.0	3799.8
7.5°	3592.4	3611.3	3656.5	3716.8	3754.5	3807.3	3848.8	3875.1	3894.0	3886.5	3890.2
10°	3581.1	3611.3	3667.8	3743.2	3799.8	3852.5	3890.2	3901.5	3912.8	3905.3	3901.5
12.5°	3596.2	3630.1	3690.4	3780.9	3845.0	3886.5	3897.8	3878.9	3852.5	3837.5	3833.7
15°	3626.4	3660.3	3720.6	3814.8	3871.4	3886.5	3860.1	3799.8	3739.4	3705.5	3701.7
17.5°	3667.8	3690.4	3739.4	3822.4	3867.6	3848.8	3796.0	3724.4	3679.1	3652.7	3656.5
20°	3694.2	3694.2	3731.9	3796.0	3833.7	3818.6	3754.5	3675.4	3603.7	3569.8	3558.5
22.5°	3731.9	3713.1	3716.8	3773.4	3826.1	3803.5	3667.8	3528.3	3426.6	3388.9	3385.1
25°	3833.7	3780.9	3747.0	3780.9	3905.3	3720.6	3449.2	3287.1	3192.8	3158.9	3162.7
27.5°	3958.1	3886.5	3814.8	3871.4	3969.4	3532.1	3170.2	2985.5	2929.0	2902.6	2913.9
30°	4082.5	3988.2	3894.0	4097.6	3924.2	3238.1	2812.1	2631.2	2582.2	2563.3	2578.4
32.5°	4312.4	4157.9	4044.8	4399.1	3784.7	2902.6	2423.9	2258.0	2212.8	2190.1	2182.6
35°	4696.9	4500.9	4387.8	4663.0	3588.7	2529.4	2069.5	1952.7	1903.6	1854.6	1847.1
37.5°	5251.0	5013.6	4911.8	4813.8	3313.5	2160.0	1798.1	1718.9	1647.3	1571.9	1568.2
40°	5914.5	5605.4	5530.0	4881.6	2932.7	1813.2	1609.6	1534.2	1443.8	1372.1	1375.9
42.5°	6679.7	6283.9	6121.8	4862.8	2461.5	1628.5	1473.9	1391.0	1311.8	1247.7	1244.0
45°	7497.7	7049.1	6676.0	4730.8	1994.1	1500.3	1391.0	1293.0	1213.8	1142.2	1134.6
47.5°	8402.4	7901.1	7188.6	4474.5	1647.3	1409.8	1342.0	1202.5	1130.9	1085.6	1085.6
50°	9314.7	8715.3	7659.8	4086.2	1443.8	1342.0	1270.4	1153.5	1097.0	1059.3	1059.3
52.5°	10095.0	9563.5	8048.1	3622.6	1315.6	1285.4	1221.3	1130.9	1070.6	1036.6	1032.9
55°	10852.7	10351.3	8394.9	3162.7	1210.0	1210.0	1210.0	1112.0	1044.2	1014.0	1010.3
57.5°	11606.6	11180.6	8756.8	2861.1	1115.8	1146.0	1187.4	1089.4	1021.6	995.2	991.4
60°	12458.5	12175.8	9175.2	2650.0	1032.9	1078.1	1157.3	1063.0	983.9	961.2	957.5
62.5°	13363.2	13363.2	9555.9	2352.2	957.5	1021.6	1112.0	1029.1	949.9	931.1	927.3
65°	14071.9	14377.2	9801.0	1907.4	882.1	965.0	1059.3	983.9	904.7	900.9	893.4
67.5°	14154.8	14633.6	9646.4	1440.0	814.2	904.7	1006.5	934.9	859.5	859.5	848.2
70°	13559.2	14045.5	9163.9	1078.1	765.2	844.4	938.6	874.5	802.9	810.5	791.6
72.5°	12564.1	12684.7	7965.2	851.9	708.7	780.3	855.7	806.7	742.6	742.6	716.2
75°	11252.2	10581.3	5786.3	712.5	640.8	704.9	772.8	731.3	674.8	655.9	640.8
77.5°	8956.6	7667.4	3362.5	614.4	584.3	633.3	678.5	648.4	599.4	557.9	557.9
80°	5458.4	4493.4	1485.2	531.5	516.4	554.1	584.3	550.4	508.9	467.4	456.1
82.5°	2077.0	1734.0	720.0	456.1	452.4	475.0	497.6	463.7	433.5	414.7	358.1
85°	569.2	524.0	493.8	380.7	373.2	369.4	395.8	380.7	339.3	279.0	248.8
87.5°	214.9	245.0	267.6	233.7	248.8	229.9	263.9	241.3	214.9	139.5	124.4
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)