

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: P400140

Luminaire Tested: **ARCH-L-PA3-240-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400140
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-PA3-240-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29783 lumens
Efficiency: N/A
Efficacy: 123.1 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

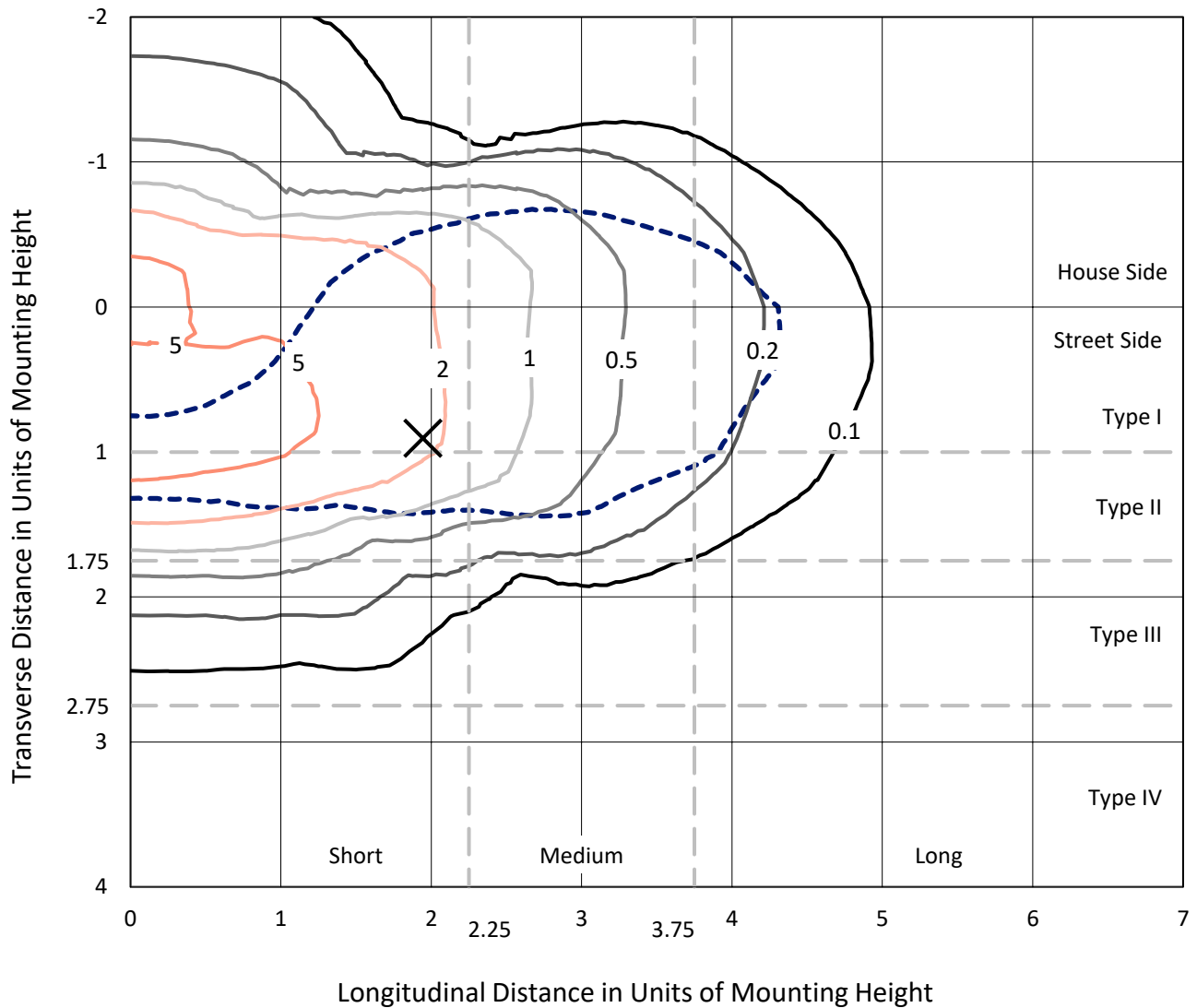
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

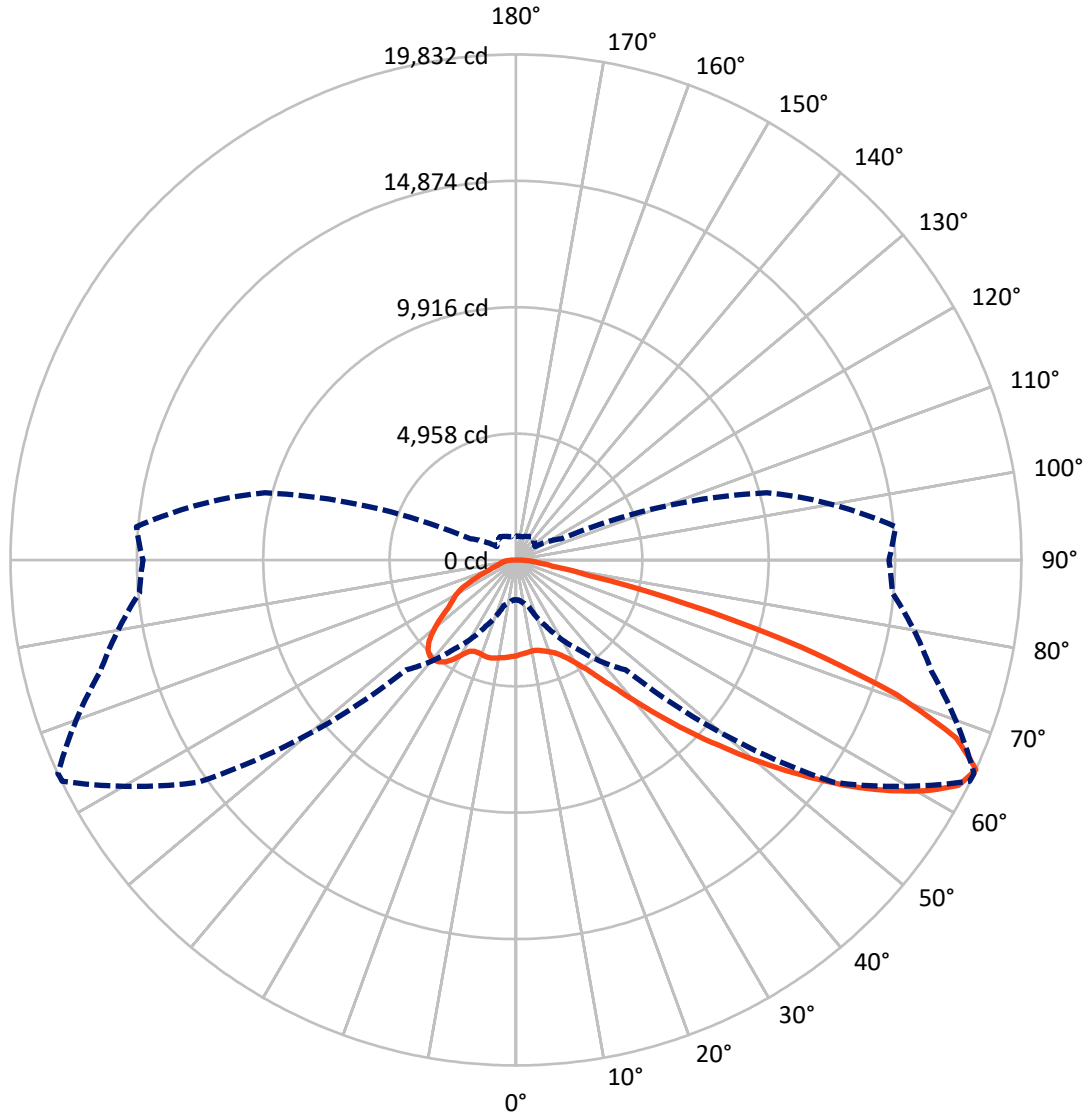
✕ Max cd
 - - - 1/2 Max cd



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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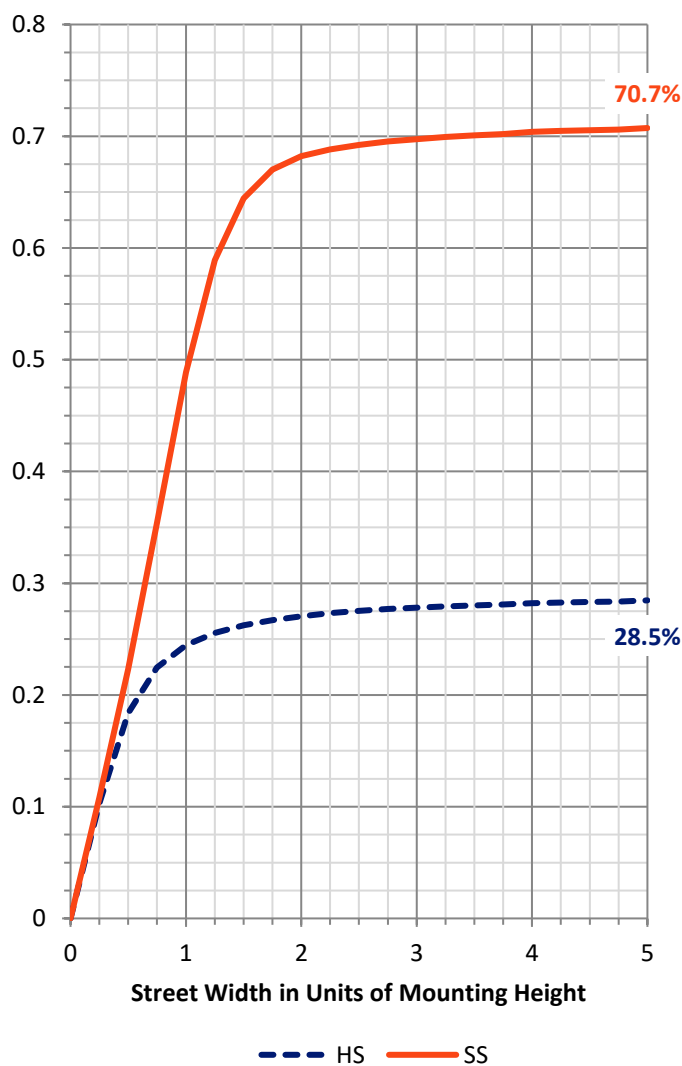
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8610.7	0.0	8610.7
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	21172.3	0.0	21172.3
	% Fixture	71.1	0.0	71.1
Total	Lumens	29783.0	0.0	29783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.5	1.2
10°-20°	1070.5	3.6
20°-30°	1901.5	6.4
30°-40°	3216.8	10.8
40°-50°	5599.8	18.8
50°-60°	7236.7	24.3
60°-70°	6332.5	21.3
70°-80°	3444.4	11.6
80°-90°	622.3	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°	29783.0	100.0
0°-180°	29783.0	100.0

Coefficient of Utilization



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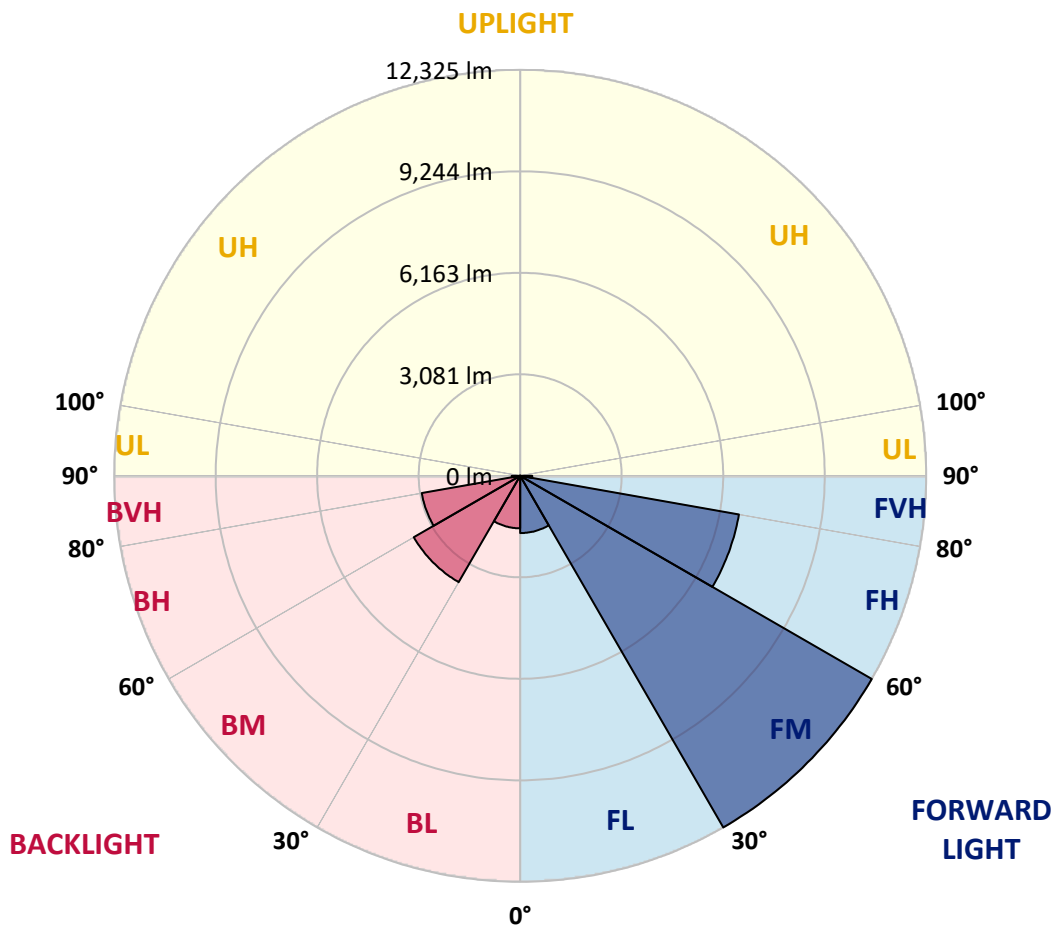
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1737.8	5.8			
FM (30°-60°)	12325.0	41.4			
FH (60°-80°)	6743.3	22.6			G3/7500
FVH (80°-90°)	366.2	1.2			G3/500
BL (0°-30°)	1592.7	5.3	B3/2500		
BM (30°-60°)	3728.2	12.5	B3/5000		
BH (60°-80°)	3033.7	10.2	B4/5000		G4/5000
BVH (80°-90°)	256.1	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°	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4
2.5°	3696.7	3692.8	3685.0	3692.8	3696.7	3704.6	3700.6	3708.5	3704.6	3716.3	3735.9
5°	3602.6	3594.8	3590.9	3610.5	3622.2	3641.8	3649.7	3677.1	3673.2	3692.8	3724.2
7.5°	3496.8	3496.8	3492.9	3516.4	3532.1	3567.4	3594.8	3641.8	3645.8	3681.0	3716.3
10°	3414.5	3418.4	3414.5	3434.1	3457.6	3500.7	3547.8	3614.4	3618.3	3669.3	3704.6
12.5°	3383.1	3383.1	3383.1	3410.6	3441.9	3500.7	3555.6	3626.2	3634.0	3688.9	3720.2
15°	3426.2	3430.2	3422.3	3449.8	3485.0	3555.6	3606.6	3681.0	3688.9	3739.8	3759.4
17.5°	3579.1	3594.8	3575.2	3590.9	3583.0	3637.9	3685.0	3759.4	3763.4	3806.5	3814.3
20°	3881.0	3896.7	3865.3	3845.7	3775.1	3771.2	3790.8	3849.6	3849.6	3877.1	3857.5
22.5°	4347.5	4363.2	4308.3	4233.8	4065.2	3982.9	3939.8	3967.2	3963.3	3975.1	3924.1
25°	4966.9	4962.9	4896.3	4759.1	4488.6	4288.7	4182.8	4139.7	4139.7	4116.2	4053.5
27.5°	5735.2	5676.4	5558.8	5394.2	5017.8	4739.5	4512.1	4402.4	4382.8	4312.2	4194.6
30°	6554.5	6511.4	6342.8	6103.7	5668.6	5311.8	4935.5	4716.0	4704.2	4551.3	4374.9
32.5°	7518.9	7448.3	7260.2	6974.0	6452.6	5950.8	5480.4	5147.2	5127.6	4884.5	4641.5
35°	8757.7	8698.9	8334.3	8048.1	7377.8	6719.2	6162.5	5719.5	5703.9	5405.9	5096.2
37.5°	10243.4	10090.5	9737.7	9200.7	8495.0	7714.9	7009.3	6452.6	6433.0	6103.7	5711.7
40°	11568.4	11431.2	11117.6	10623.7	9867.1	9000.7	8044.2	7369.9	7350.3	6950.5	6456.5
42.5°	12548.5	12454.4	12250.5	11964.4	11423.4	10898.1	9365.3	8479.3	8444.1	7926.6	7311.1
45°	13116.9	13042.4	12924.8	12995.4	12987.5	12889.5	10941.2	9800.4	9686.8	9016.4	8263.7
47.5°	12979.7	12913.1	12960.1	13508.9	14265.5	14833.9	12775.9	11152.9	11000.0	10125.8	9279.1
50°	11987.9	12015.3	12262.3	13312.9	15010.4	16272.7	14810.4	12693.5	12489.7	11243.1	10243.4
52.5°	10180.7	10247.3	10847.1	12317.2	14928.0	17205.7	16649.0	14285.1	14014.6	12332.9	11121.5
55°	8087.3	8255.9	9032.1	10576.6	13853.9	17272.3	18036.7	15884.6	15586.6	13356.0	11886.0
57.5°	5982.2	6233.1	7130.8	8549.9	11795.8	16217.8	18730.6	17413.4	17052.8	14371.4	12693.5
60°	3794.7	3947.6	4982.5	6656.5	9028.2	13638.3	18640.4	18714.9	18401.3	15382.8	13536.4
62.5°	2422.7	2497.2	3018.5	4747.3	6311.5	10098.4	17656.5	19698.9	19487.2	16304.0	14336.1
65°	1556.3	1587.7	1854.2	2920.5	4296.5	6095.9	15206.4	19804.7	19832.2	16880.3	14830.0
67.5°	1266.2	1281.9	1379.9	1803.3	3038.1	3367.4	10592.3	18299.4	18632.6	16731.3	14661.5
70°	1152.5	1172.1	1274.1	1438.7	2352.1	2324.7	5127.6	15312.2	15857.1	15872.8	13912.7
72.5°	972.2	999.6	1136.9	1360.3	1819.0	1834.6	2171.8	10905.9	11709.6	14187.1	12787.6
75°	811.5	827.2	944.8	1199.6	1540.6	1466.1	1524.9	5782.3	6942.6	11376.4	11592.0
77.5°	658.6	674.3	760.5	956.5	1368.1	1140.8	1199.6	2395.2	2959.7	7722.7	9475.1
80°	470.4	486.1	584.1	744.8	1034.9	1027.1	889.9	1321.1	1434.8	4175.0	6154.7
82.5°	337.1	348.9	443.0	533.1	717.4	1031.0	670.4	897.7	940.8	1850.3	2481.5
85°	227.4	227.4	305.8	352.8	462.6	650.7	541.0	607.6	635.1	878.1	670.4
87.5°	98.0	98.0	164.6	180.3	243.1	301.9	403.8	305.8	313.6	474.3	274.4
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°	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4	3763.4
2.5°	3747.7	3751.6	3759.4	3783.0	3798.7	3822.2	3833.9	3849.6	3849.6	3841.8	3845.7
5°	3739.8	3751.6	3779.0	3822.2	3849.6	3892.7	3924.1	3947.6	3955.5	3947.6	3951.5
7.5°	3735.9	3755.5	3802.6	3865.3	3904.5	3959.4	4002.5	4029.9	4049.5	4041.7	4045.6
10°	3724.2	3755.5	3814.3	3892.7	3951.5	4006.4	4045.6	4057.4	4069.1	4061.3	4057.4
12.5°	3739.8	3775.1	3837.9	3931.9	3998.6	4041.7	4053.5	4033.9	4006.4	3990.7	3986.8
15°	3771.2	3806.5	3869.2	3967.2	4026.0	4041.7	4014.3	3951.5	3888.8	3853.5	3849.6
17.5°	3814.3	3837.9	3888.8	3975.1	4022.1	4002.5	3947.6	3873.1	3826.1	3798.7	3802.6
20°	3841.8	3841.8	3881.0	3947.6	3986.8	3971.1	3904.5	3822.2	3747.7	3712.4	3700.6
22.5°	3881.0	3861.4	3865.3	3924.1	3979.0	3955.5	3814.3	3669.3	3563.4	3524.2	3520.3
25°	3986.8	3931.9	3896.7	3931.9	4061.3	3869.2	3587.0	3418.4	3320.4	3285.1	3289.0
27.5°	4116.2	4041.7	3967.2	4026.0	4127.9	3673.2	3296.9	3104.8	3046.0	3018.5	3030.3
30°	4245.6	4147.5	4049.5	4261.2	4080.9	3367.4	2924.5	2736.3	2685.3	2665.7	2681.4
32.5°	4484.7	4324.0	4206.3	4574.8	3935.9	3018.5	2520.7	2348.2	2301.1	2277.6	2269.8
35°	4884.5	4680.7	4563.1	4849.3	3732.0	2630.4	2152.2	2030.7	1979.7	1928.7	1920.9
37.5°	5460.8	5213.8	5108.0	5006.1	3445.8	2246.3	1869.9	1787.6	1713.1	1634.7	1630.8
40°	6150.8	5829.3	5750.9	5076.6	3049.9	1885.6	1673.9	1595.5	1501.4	1426.9	1430.9
42.5°	6946.6	6534.9	6366.4	5057.0	2559.9	1693.5	1532.8	1446.5	1364.2	1297.6	1293.7
45°	7797.2	7330.7	6942.6	4919.8	2073.8	1560.2	1446.5	1344.6	1262.3	1187.8	1180.0
47.5°	8738.1	8216.7	7475.8	4653.2	1713.1	1466.1	1395.6	1250.5	1176.1	1129.0	1129.0
50°	9686.8	9063.4	7965.8	4249.5	1501.4	1395.6	1321.1	1199.6	1140.8	1101.6	1101.6
52.5°	10498.2	9945.5	8369.6	3767.3	1368.1	1336.8	1270.1	1176.1	1113.3	1078.0	1074.1
55°	11286.2	10764.8	8730.2	3289.0	1258.4	1258.4	1258.4	1156.5	1085.9	1054.5	1050.6
57.5°	12070.2	11627.2	9106.6	2975.4	1160.4	1191.7	1234.9	1132.9	1062.4	1034.9	1031.0
60°	12956.2	12662.2	9541.7	2755.9	1074.1	1121.2	1203.5	1105.5	1023.2	999.6	995.7
62.5°	13897.0	13897.0	9937.6	2446.2	995.7	1062.4	1156.5	1070.2	987.9	968.3	964.4
65°	14634.0	14951.6	10192.5	1983.6	917.3	1003.6	1101.6	1023.2	940.8	936.9	929.1
67.5°	14720.3	15218.1	10031.7	1497.5	846.8	940.8	1046.7	972.2	893.8	893.8	882.0
70°	14100.9	14606.6	9529.9	1121.2	795.8	878.1	976.1	909.5	835.0	842.8	823.2
72.5°	13065.9	13191.4	8283.3	886.0	737.0	811.5	889.9	838.9	772.3	772.3	744.8
75°	11701.7	11003.9	6017.5	740.9	666.4	733.1	803.6	760.5	701.7	682.1	666.4
77.5°	9314.3	7973.6	3496.8	639.0	607.6	658.6	705.6	674.3	623.3	580.2	580.2
80°	5676.4	4672.8	1544.5	552.7	537.1	576.3	607.6	572.3	529.2	486.1	474.3
82.5°	2160.0	1803.3	748.8	474.3	470.4	493.9	517.5	482.2	450.8	431.2	372.4
85°	591.9	544.9	513.5	395.9	388.1	384.2	411.6	395.9	352.8	290.1	258.7
87.5°	223.5	254.8	278.3	243.1	258.7	239.1	274.4	250.9	223.5	145.0	129.4
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)