

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: P400419

Luminaire Tested: **ARCH-L-PA3-280-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400419
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-PA3-280-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1180mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29862 lumens
Efficiency: N/A
Efficacy: 107.0 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

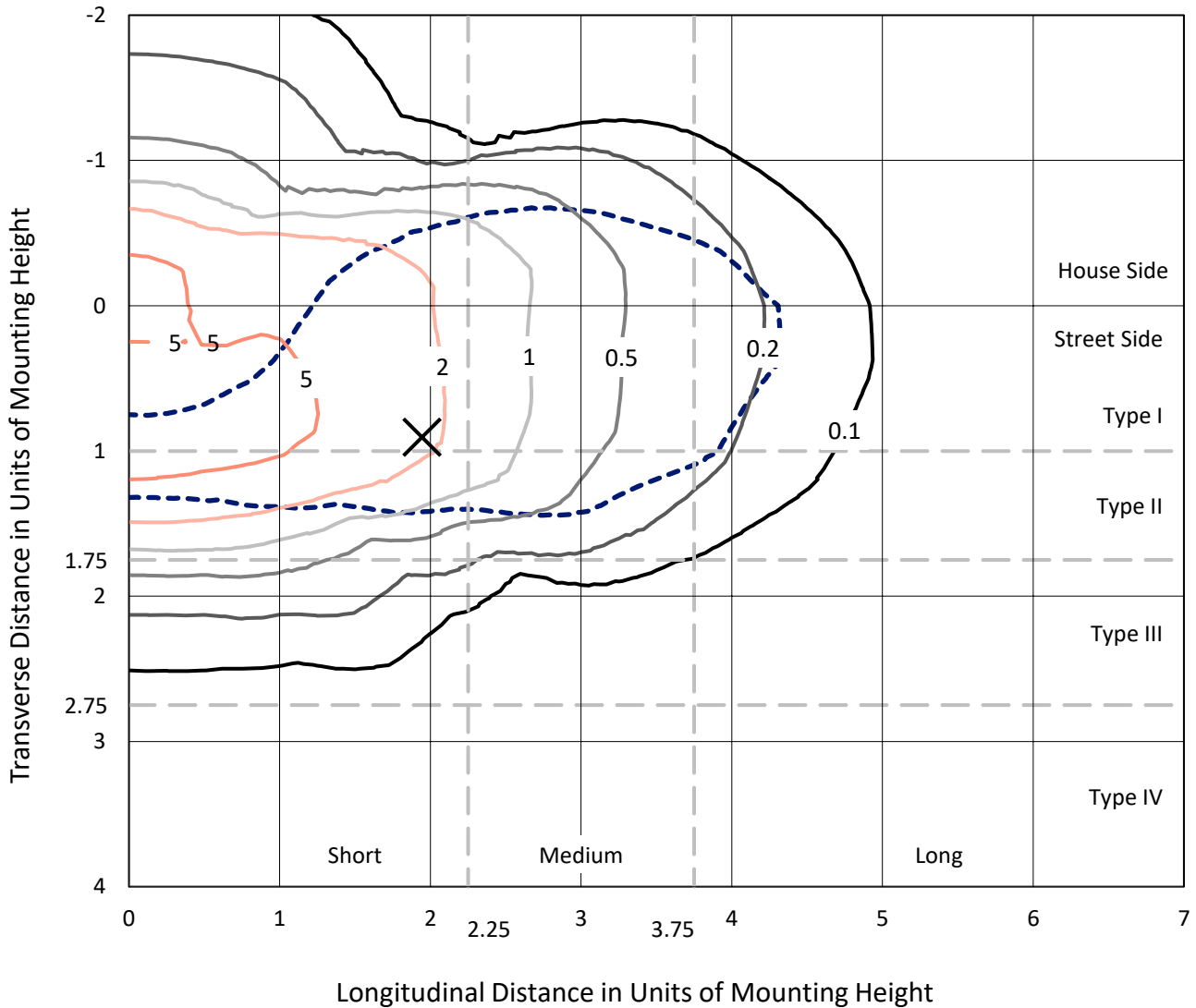
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

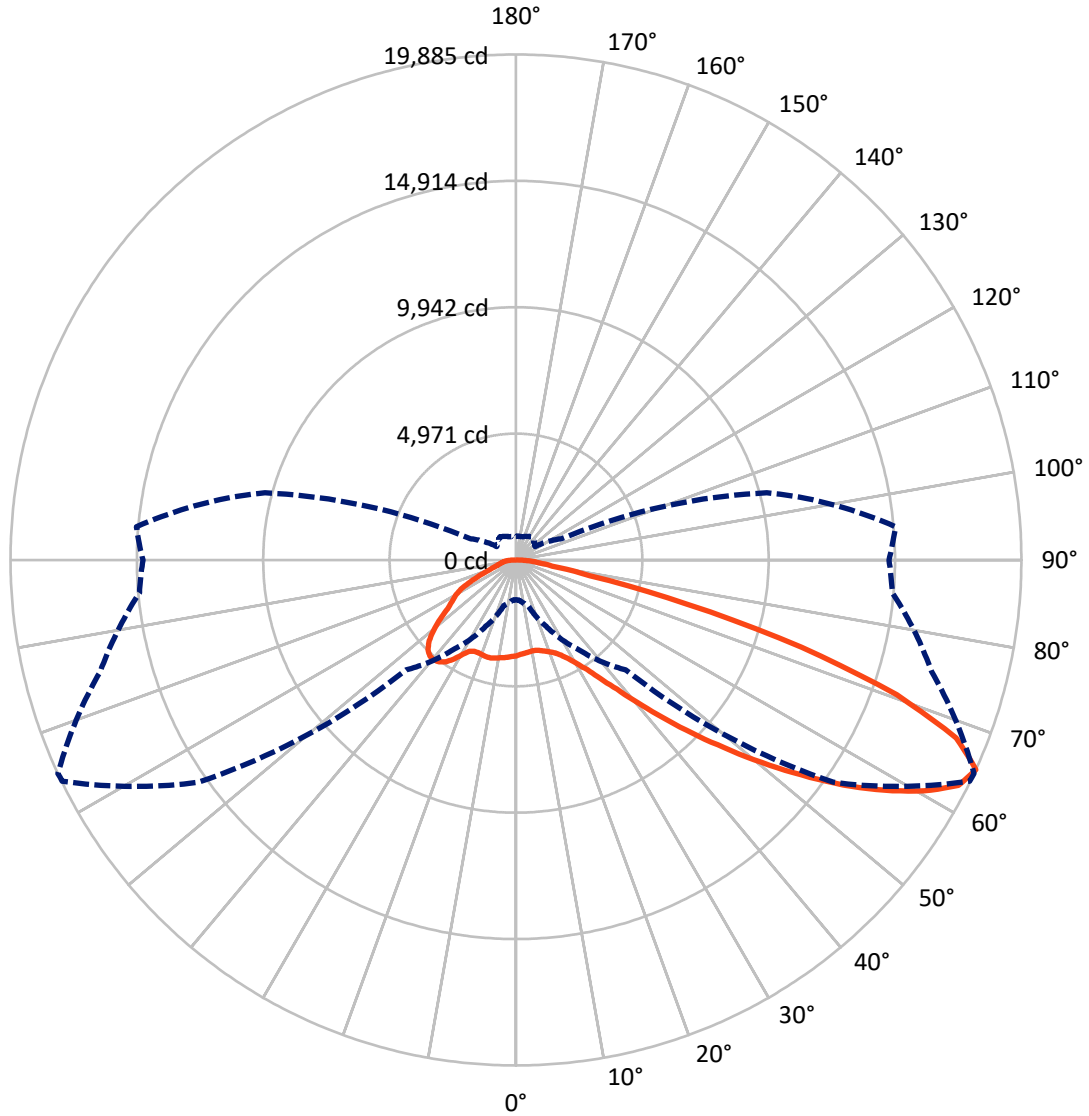
✕ Max cd
 - - - 1/2 Max cd



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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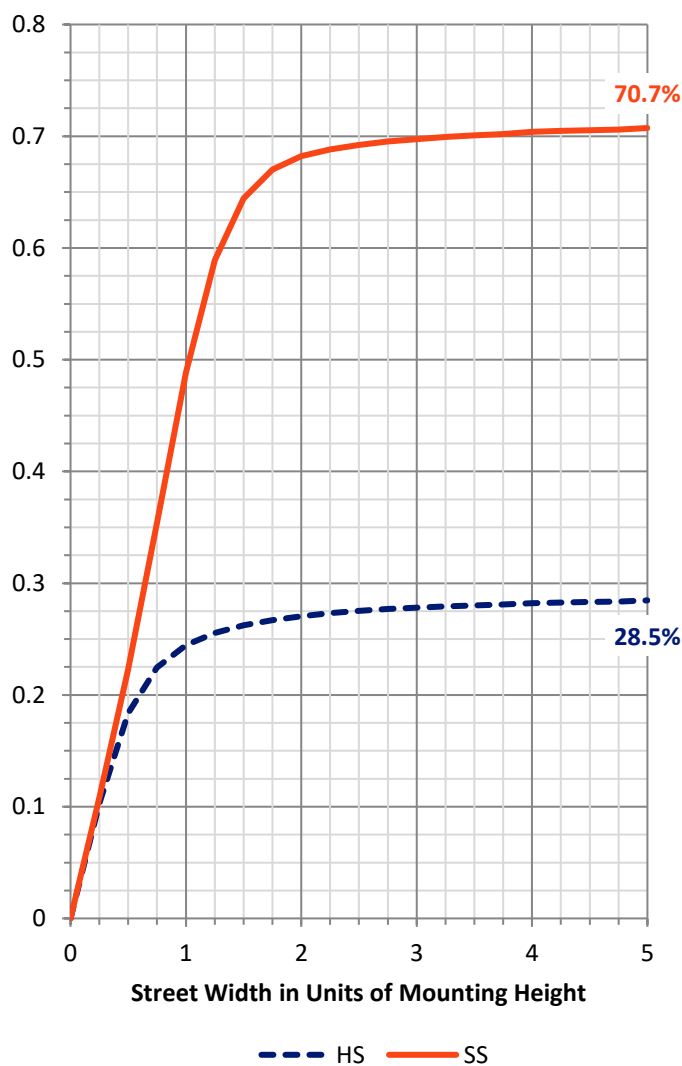
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8633.5	0.0	8633.5
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	21228.5	0.0	21228.5
	% Fixture	71.1	0.0	71.1
Total	Lumens	29862.0	0.0	29862.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.5	1.2
10°-20°	1073.3	3.6
20°-30°	1906.5	6.4
30°-40°	3225.3	10.8
40°-50°	5614.6	18.8
50°-60°	7255.9	24.3
60°-70°	6349.3	21.3
70°-80°	3453.6	11.6
80°-90°	624.0	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°	29862.0	100.0
0°-180°	29862.0	100.0

Coefficient of Utilization



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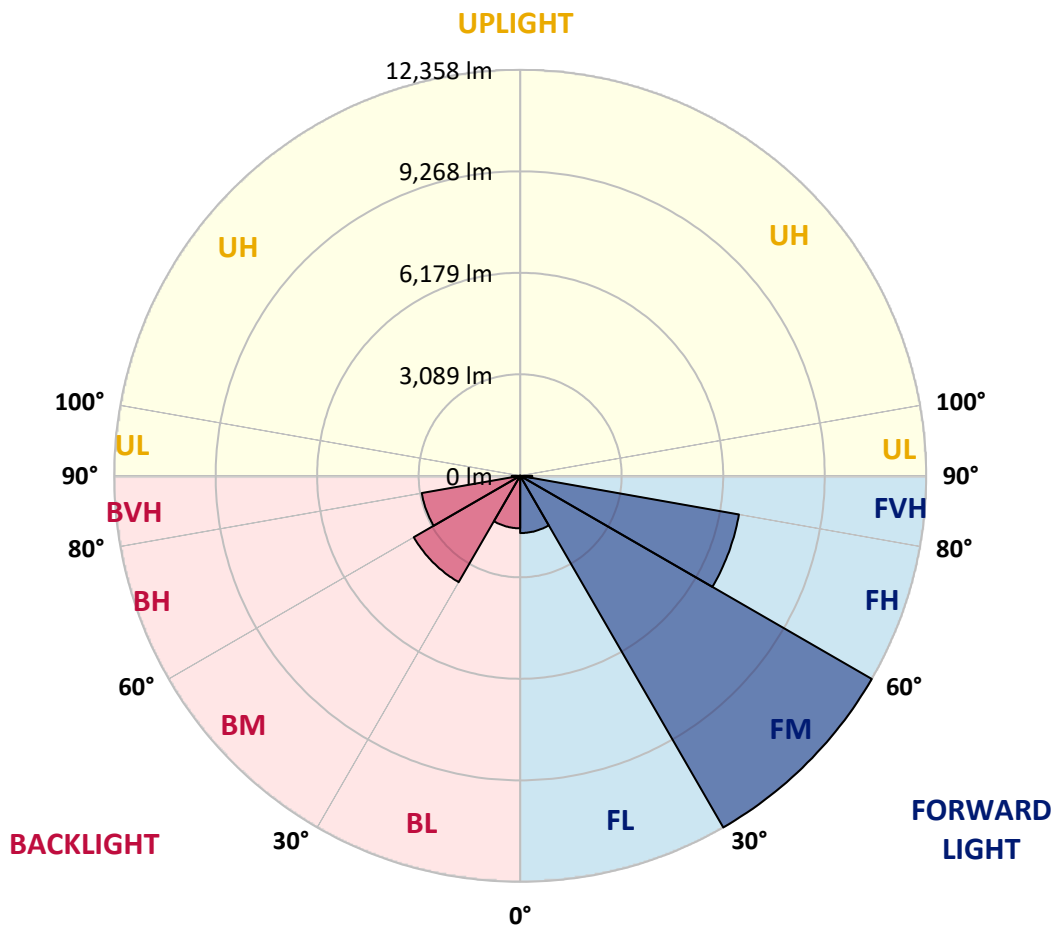
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1742.4	5.8			
FM (30°-60°)	12357.7	41.4			
FH (60°-80°)	6761.2	22.6			G3/7500
FVH (80°-90°)	367.2	1.2			G3/500
BL (0°-30°)	1596.9	5.3	B3/2500		
BM (30°-60°)	3738.1	12.5	B3/5000		
BH (60°-80°)	3041.7	10.2	B4/5000		G4/5000
BVH (80°-90°)	256.8	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°	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4
2.5°	3706.5	3702.6	3694.7	3702.6	3706.5	3714.4	3710.5	3718.3	3714.4	3726.2	3745.8
5°	3612.2	3604.3	3600.4	3620.1	3631.9	3651.5	3659.4	3686.9	3682.9	3702.6	3734.0
7.5°	3506.1	3506.1	3502.1	3525.7	3541.4	3576.8	3604.3	3651.5	3655.4	3690.8	3726.2
10°	3423.5	3427.5	3423.5	3443.2	3466.8	3510.0	3557.2	3624.0	3627.9	3679.0	3714.4
12.5°	3392.1	3392.1	3392.1	3419.6	3451.0	3510.0	3565.0	3635.8	3643.6	3698.7	3730.1
15°	3435.3	3439.3	3431.4	3458.9	3494.3	3565.0	3616.1	3690.8	3698.7	3749.8	3769.4
17.5°	3588.6	3604.3	3584.7	3600.4	3592.5	3647.6	3694.7	3769.4	3773.4	3816.6	3824.4
20°	3891.3	3907.0	3875.5	3855.9	3785.1	3781.2	3800.9	3859.8	3859.8	3887.3	3867.7
22.5°	4359.0	4374.7	4319.7	4245.0	4076.0	3993.5	3950.2	3977.7	3973.8	3985.6	3934.5
25°	4980.0	4976.1	4909.3	4771.7	4500.5	4300.0	4193.9	4150.7	4150.7	4127.1	4064.2
27.5°	5750.4	5691.5	5573.6	5408.5	5031.1	4752.1	4524.1	4414.0	4394.4	4323.6	4205.7
30°	6571.9	6528.7	6359.7	6119.9	5683.6	5325.9	4948.6	4728.5	4716.7	4563.4	4386.5
32.5°	7538.8	7468.1	7279.4	6992.5	6469.7	5966.6	5494.9	5160.8	5141.2	4897.5	4653.8
35°	8780.9	8721.9	8356.4	8069.5	7397.3	6737.0	6178.9	5734.7	5719.0	5420.3	5109.7
37.5°	10270.6	10117.3	9763.5	9225.1	8517.6	7735.4	7027.9	6469.7	6450.1	6119.9	5726.8
40°	11599.1	11461.6	11147.1	10651.9	9893.3	9024.6	8065.5	7389.5	7369.8	6968.9	6473.7
42.5°	12581.8	12487.4	12283.0	11996.1	11453.7	10927.0	9390.1	8501.8	8466.5	7947.6	7330.5
45°	13151.7	13077.0	12959.1	13029.9	13022.0	12923.7	10970.2	9826.4	9712.4	9040.3	8285.7
47.5°	13014.1	12947.3	12994.5	13544.8	14303.4	14873.3	12809.7	11182.5	11029.2	10152.7	9303.7
50°	12019.7	12047.2	12294.8	13348.2	15050.2	16315.8	14849.7	12727.2	12522.8	11272.9	10270.6
52.5°	10207.7	10274.5	10875.9	12349.9	14967.6	17251.3	16693.1	14323.0	14051.8	12365.6	11151.0
55°	8108.8	8277.8	9056.0	10604.7	13890.6	17318.1	18084.6	15926.7	15628.0	13391.5	11917.5
57.5°	5998.1	6249.6	7149.7	8572.6	11827.1	16260.8	18780.3	17459.6	17098.0	14409.5	12727.2
60°	3804.8	3958.1	4995.8	6674.1	9052.1	13674.5	18689.9	18764.6	18450.1	15423.6	13572.3
62.5°	2429.1	2503.8	3026.5	4759.9	6328.2	10125.2	17703.3	19751.1	19538.9	16347.3	14374.1
65°	1560.4	1591.9	1859.2	2928.3	4307.9	6112.0	15246.7	19857.3	19884.8	16925.1	14869.4
67.5°	1269.6	1285.3	1383.6	1808.1	3046.2	3376.4	10620.4	18347.9	18682.0	16775.7	14700.3
70°	1155.6	1175.2	1277.4	1442.5	2358.3	2330.8	5141.2	15352.8	15899.2	15914.9	13949.6
72.5°	974.8	1002.3	1139.9	1363.9	1823.8	1839.5	2177.5	10934.9	11740.6	14224.7	12821.5
75°	813.6	829.4	947.3	1202.8	1544.7	1470.0	1529.0	5797.6	6961.0	11406.5	11622.7
77.5°	660.3	676.1	762.5	959.1	1371.8	1143.8	1202.8	2401.6	2967.6	7743.2	9500.2
80°	471.7	487.4	585.7	746.8	1037.7	1029.8	892.2	1324.6	1438.6	4186.1	6171.0
82.5°	338.0	349.8	444.2	534.6	719.3	1033.7	672.1	900.1	943.3	1855.2	2488.1
85°	228.0	228.0	306.6	353.8	463.8	652.5	542.4	609.2	636.8	880.4	672.1
87.5°	98.3	98.3	165.1	180.8	243.7	302.7	404.8	306.6	314.4	475.6	275.1
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°	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4
2.5°	3757.6	3761.6	3769.4	3793.0	3808.7	3832.3	3844.1	3859.8	3859.8	3852.0	3855.9
5°	3749.8	3761.6	3789.1	3832.3	3859.8	3903.1	3934.5	3958.1	3965.9	3958.1	3962.0
7.5°	3745.8	3765.5	3812.7	3875.5	3914.9	3969.9	4013.1	4040.6	4060.3	4052.4	4056.4
10°	3734.0	3765.5	3824.4	3903.1	3962.0	4017.0	4056.4	4068.1	4079.9	4072.1	4068.1
12.5°	3749.8	3785.1	3848.0	3942.4	4009.2	4052.4	4064.2	4044.6	4017.0	4001.3	3997.4
15°	3781.2	3816.6	3879.5	3977.7	4036.7	4052.4	4024.9	3962.0	3899.1	3863.8	3859.8
17.5°	3824.4	3848.0	3899.1	3985.6	4032.8	4013.1	3958.1	3883.4	3836.2	3808.7	3812.7
20°	3852.0	3852.0	3891.3	3958.1	3997.4	3981.7	3914.9	3832.3	3757.6	3722.3	3710.5
22.5°	3891.3	3871.6	3875.5	3934.5	3989.5	3965.9	3824.4	3679.0	3572.9	3533.6	3529.7
25°	3997.4	3942.4	3907.0	3942.4	4072.1	3879.5	3596.5	3427.5	3329.2	3293.8	3297.8
27.5°	4127.1	4052.4	3977.7	4036.7	4138.9	3682.9	3305.6	3113.0	3054.1	3026.5	3038.3
30°	4256.8	4158.5	4060.3	4272.5	4091.7	3376.4	2932.2	2743.5	2692.4	2672.8	2688.5
32.5°	4496.6	4335.4	4217.5	4587.0	3946.3	3026.5	2527.4	2354.4	2307.2	2283.7	2275.8
35°	4897.5	4693.1	4575.2	4862.1	3741.9	2637.4	2157.9	2036.0	1984.9	1933.8	1926.0
37.5°	5475.3	5227.7	5121.5	5019.3	3455.0	2252.2	1874.9	1792.3	1717.7	1639.0	1635.1
40°	6167.1	5844.8	5766.2	5090.1	3058.0	1890.6	1678.4	1599.7	1505.4	1430.7	1434.7
42.5°	6965.0	6552.3	6383.3	5070.4	2566.7	1698.0	1536.9	1450.4	1367.8	1301.0	1297.1
45°	7817.9	7350.2	6961.0	4932.9	2079.3	1564.4	1450.4	1348.2	1265.6	1191.0	1183.1
47.5°	8761.3	8238.5	7495.6	4665.6	1717.7	1470.0	1399.3	1253.9	1179.2	1132.0	1132.0
50°	9712.4	9087.5	7986.9	4260.7	1505.4	1399.3	1324.6	1202.8	1143.8	1104.5	1104.5
52.5°	10526.1	9971.9	8391.8	3777.3	1371.8	1340.3	1273.5	1179.2	1116.3	1080.9	1077.0
55°	11316.1	10793.4	8753.4	3297.8	1261.7	1261.7	1261.7	1159.5	1088.8	1057.3	1053.4
57.5°	12102.2	11658.1	9130.7	2983.3	1163.5	1194.9	1238.1	1135.9	1065.2	1037.7	1033.7
60°	12990.5	12695.8	9567.0	2763.2	1077.0	1124.1	1206.7	1108.4	1025.9	1002.3	998.4
62.5°	13933.9	13933.9	9964.0	2452.7	998.4	1065.2	1159.5	1073.0	990.5	970.9	966.9
65°	14672.8	14991.2	10219.5	1988.9	919.8	1006.2	1104.5	1025.9	943.3	939.4	931.5
67.5°	14759.3	15258.5	10058.3	1501.5	849.0	943.3	1049.5	974.8	896.2	896.2	884.4
70°	14138.3	14645.3	9555.2	1124.1	797.9	880.4	978.7	911.9	837.2	845.1	825.4
72.5°	13100.6	13226.4	8305.3	888.3	738.9	813.6	892.2	841.1	774.3	774.3	746.8
75°	11732.8	11033.1	6033.4	742.9	668.2	735.0	805.8	762.5	703.6	683.9	668.2
77.5°	9339.0	7994.8	3506.1	640.7	609.2	660.3	707.5	676.1	625.0	581.7	581.7
80°	5691.5	4685.2	1548.6	554.2	538.5	577.8	609.2	573.9	530.6	487.4	475.6
82.5°	2165.7	1808.1	750.7	475.6	471.7	495.3	518.8	483.5	452.0	432.4	373.4
85°	593.5	546.3	514.9	397.0	389.1	385.2	412.7	397.0	353.8	290.9	259.4
87.5°	224.0	255.5	279.1	243.7	259.4	239.8	275.1	251.6	224.0	145.4	129.7
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)