

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: P400059

Luminaire Tested: **ARCH-L-PA3-230-727-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400059
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-PA3-230-727-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26455 lumens
Efficiency: N/A
Efficacy: 115.5 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

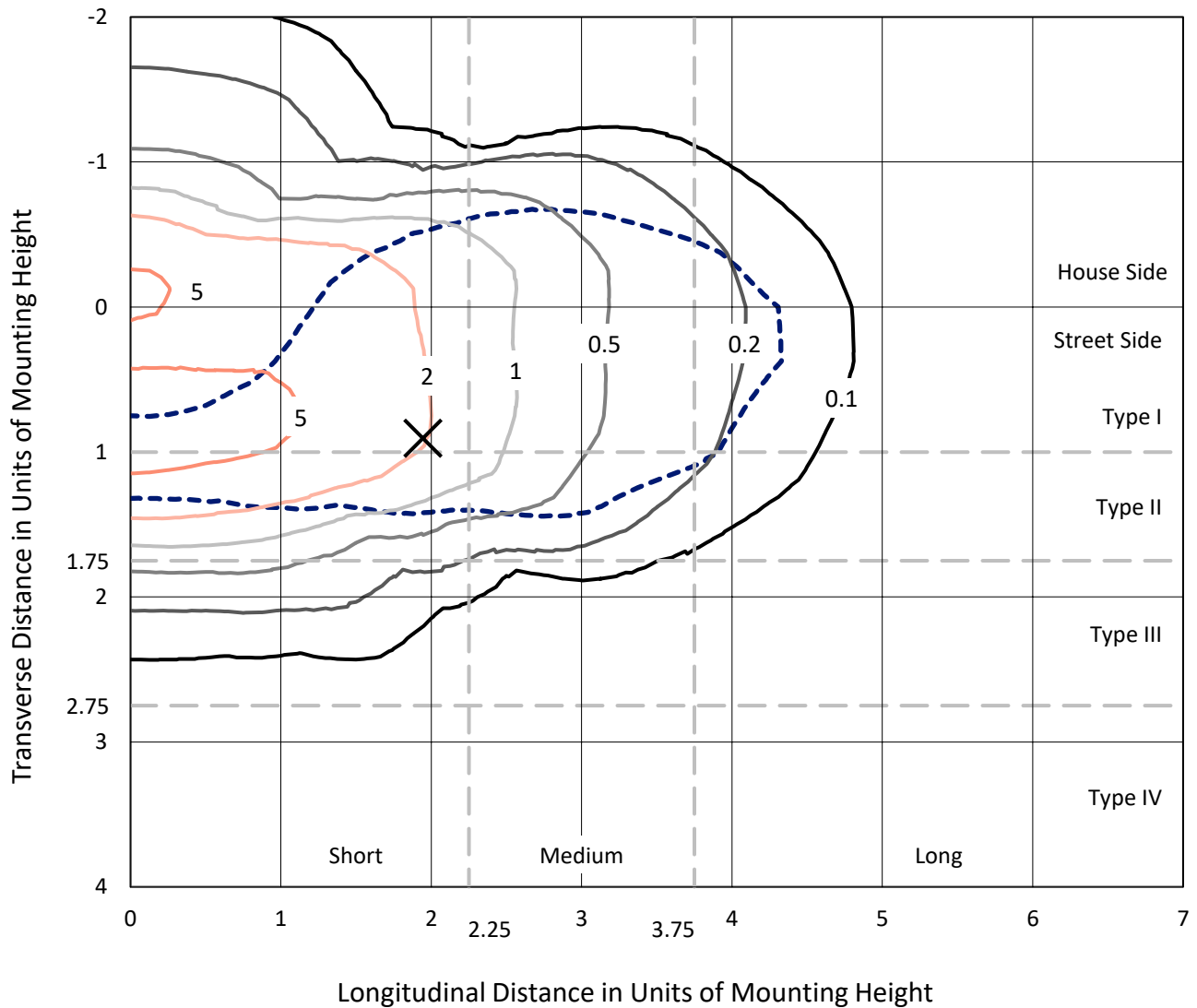
Input Watts (W): 229
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

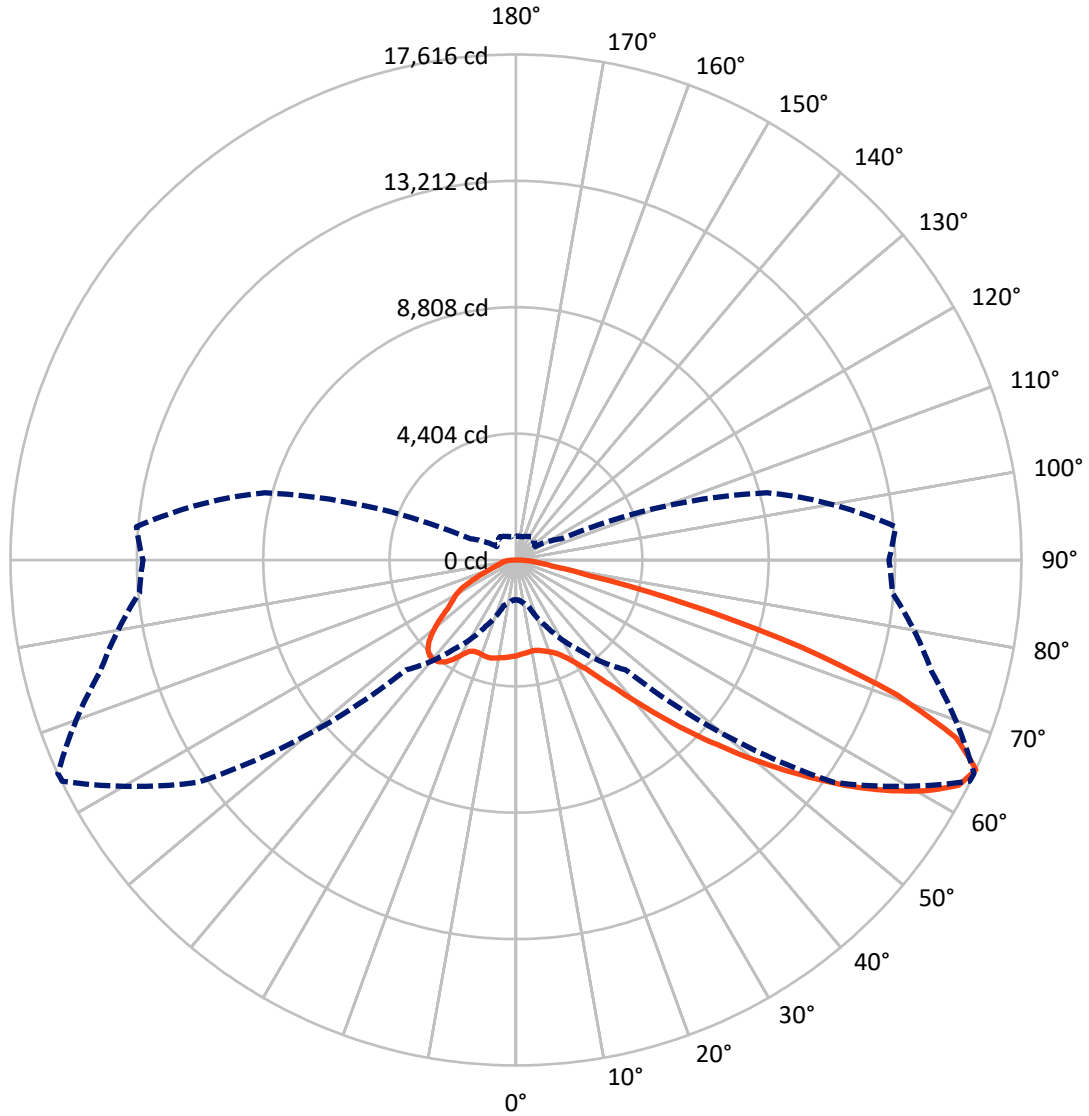
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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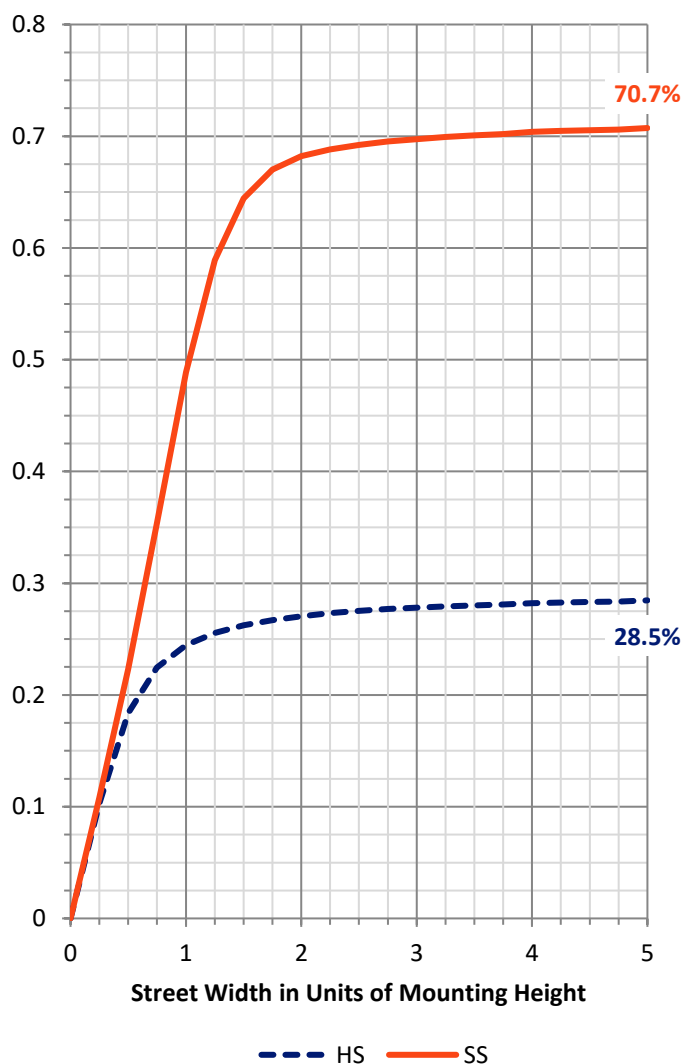
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7648.5	0.0	7648.5
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	18806.5	0.0	18806.5
	% Fixture	71.1	0.0	71.1
Total	Lumens	26455.0	0.0	26455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.5	1.2
10°-20°	950.8	3.6
20°-30°	1689.0	6.4
30°-40°	2857.3	10.8
40°-50°	4974.1	18.8
50°-60°	6428.1	24.3
60°-70°	5624.9	21.3
70°-80°	3059.6	11.6
80°-90°	552.8	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°	26455.0	100.0
0°-180°	26455.0	100.0

Coefficient of Utilization



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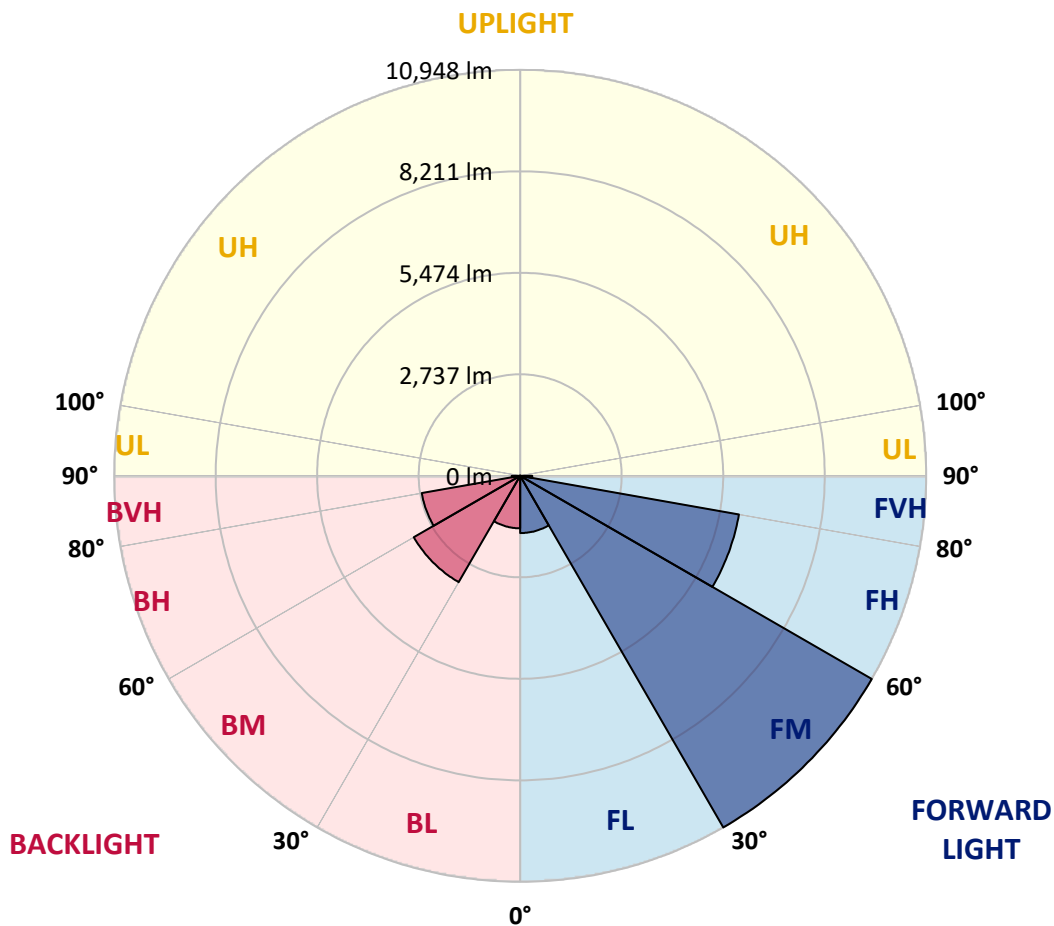
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1543.6	5.8			
FM (30°-60°)	10947.8	41.4			
FH (60°-80°)	5989.8	22.6			G3/7500
FVH (80°-90°)	325.3	1.2			G3/500
BL (0°-30°)	1414.7	5.3	B3/2500		
BM (30°-60°)	3311.6	12.5	B3/5000		
BH (60°-80°)	2694.7	10.2	B4/5000		G4/5000
BVH (80°-90°)	227.5	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°	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8
2.5°	3283.6	3280.2	3273.2	3280.2	3283.6	3290.6	3287.1	3294.1	3290.6	3301.1	3318.5
5°	3200.1	3193.1	3189.6	3207.0	3217.5	3234.9	3241.9	3266.2	3262.8	3280.2	3308.0
7.5°	3106.1	3106.1	3102.6	3123.5	3137.4	3168.7	3193.1	3234.9	3238.4	3269.7	3301.1
10°	3032.9	3036.4	3032.9	3050.3	3071.2	3109.5	3151.3	3210.5	3214.0	3259.3	3290.6
12.5°	3005.1	3005.1	3005.1	3029.5	3057.3	3109.5	3158.3	3221.0	3227.9	3276.7	3304.5
15°	3043.4	3046.9	3039.9	3064.3	3095.6	3158.3	3203.6	3269.7	3276.7	3322.0	3339.4
17.5°	3179.2	3193.1	3175.7	3189.6	3182.7	3231.4	3273.2	3339.4	3342.8	3381.1	3388.1
20°	3447.3	3461.2	3433.4	3416.0	3353.3	3349.8	3367.2	3419.5	3419.5	3443.8	3426.4
22.5°	3861.7	3875.6	3826.9	3760.7	3611.0	3537.8	3499.5	3523.9	3520.4	3530.9	3485.6
25°	4411.9	4408.4	4349.2	4227.3	3987.0	3809.4	3715.4	3677.1	3677.1	3656.2	3600.5
27.5°	5094.4	5042.1	4937.7	4791.4	4457.1	4209.9	4007.9	3910.4	3893.0	3830.3	3725.9
30°	5822.1	5783.8	5634.1	5421.7	5035.2	4718.3	4384.0	4189.0	4178.6	4042.8	3886.1
32.5°	6678.7	6616.0	6448.9	6194.7	5731.6	5285.9	4868.0	4572.0	4554.6	4338.7	4122.8
35°	7779.1	7726.8	7403.0	7148.8	6553.4	5968.4	5473.9	5080.4	5066.5	4801.9	4526.8
37.5°	9098.8	8963.0	8649.6	8172.6	7545.8	6852.8	6226.0	5731.6	5714.2	5421.7	5073.5
40°	10275.8	10153.9	9875.3	9436.6	8764.5	7995.0	7145.3	6546.4	6529.0	6173.8	5735.1
42.5°	11146.3	11062.7	10881.7	10627.5	10146.9	9680.3	8318.8	7531.8	7500.5	7040.9	6494.2
45°	11651.2	11585.0	11480.6	11543.3	11536.3	11449.2	9718.6	8705.3	8604.3	8008.9	7340.3
47.5°	11529.3	11470.1	11511.9	11999.4	12671.5	13176.4	11348.3	9906.7	9770.9	8994.3	8242.2
50°	10648.4	10672.7	10892.1	11825.3	13333.1	14454.3	13155.5	11275.1	11094.1	9986.7	9098.8
52.5°	9043.1	9102.3	9635.1	10940.9	13259.9	15283.1	14788.6	12688.9	12448.6	10954.8	9878.8
55°	7183.6	7333.4	8022.8	9394.8	12305.8	15342.3	16021.3	14109.6	13844.9	11863.6	10557.8
57.5°	5313.7	5536.6	6334.0	7594.5	10477.7	14405.6	16637.6	15467.6	15147.3	12765.5	11275.1
60°	3370.7	3506.5	4425.8	5912.7	8019.3	12114.3	16557.5	16623.7	16345.1	13663.9	12023.8
62.5°	2152.0	2218.1	2681.2	4216.9	5606.2	8970.0	15683.5	17497.7	17309.7	14482.2	12734.1
65°	1382.4	1410.3	1647.0	2594.2	3816.4	5414.7	13507.2	17591.7	17616.1	14994.0	13172.9
67.5°	1124.7	1138.7	1225.7	1601.8	2698.7	2991.1	9408.7	16254.6	16550.6	14861.7	13023.2
70°	1023.7	1041.2	1131.7	1277.9	2089.3	2064.9	4554.6	13601.2	14085.2	14099.1	12358.1
72.5°	863.6	887.9	1009.8	1208.3	1615.7	1629.6	1929.1	9687.3	10401.1	12601.8	11358.7
75°	720.8	734.7	839.2	1065.5	1368.5	1302.3	1354.5	5136.1	6166.9	10105.1	10296.7
77.5°	585.0	598.9	675.5	849.6	1215.3	1013.3	1065.5	2127.6	2629.0	6859.8	8416.3
80°	417.9	431.8	518.8	661.6	919.3	912.3	790.4	1173.5	1274.5	3708.5	5466.9
82.5°	299.5	309.9	393.5	473.6	637.2	915.8	595.4	797.4	835.7	1643.6	2204.2
85°	202.0	202.0	271.6	313.4	410.9	578.0	480.5	539.7	564.1	780.0	595.4
87.5°	87.1	87.1	146.2	160.2	215.9	268.1	358.7	271.6	278.6	421.3	243.7
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°	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8	3342.8
2.5°	3328.9	3332.4	3339.4	3360.3	3374.2	3395.1	3405.5	3419.5	3419.5	3412.5	3416.0
5°	3322.0	3332.4	3356.8	3395.1	3419.5	3457.8	3485.6	3506.5	3513.5	3506.5	3510.0
7.5°	3318.5	3335.9	3377.7	3433.4	3468.2	3517.0	3555.3	3579.6	3597.0	3590.1	3593.6
10°	3308.0	3335.9	3388.1	3457.8	3510.0	3558.7	3593.6	3604.0	3614.5	3607.5	3604.0
12.5°	3322.0	3353.3	3409.0	3492.6	3551.8	3590.1	3600.5	3583.1	3558.7	3544.8	3541.3
15°	3349.8	3381.1	3436.9	3523.9	3576.1	3590.1	3565.7	3510.0	3454.3	3422.9	3419.5
17.5°	3388.1	3409.0	3454.3	3530.9	3572.7	3555.3	3506.5	3440.3	3398.6	3374.2	3377.7
20°	3412.5	3412.5	3447.3	3506.5	3541.3	3527.4	3468.2	3395.1	3328.9	3297.6	3287.1
22.5°	3447.3	3429.9	3433.4	3485.6	3534.4	3513.5	3388.1	3259.3	3165.3	3130.4	3127.0
25°	3541.3	3492.6	3461.2	3492.6	3607.5	3436.9	3186.1	3036.4	2949.4	2918.0	2921.5
27.5°	3656.2	3590.1	3523.9	3576.1	3666.7	3262.8	2928.5	2757.8	2705.6	2681.2	2691.7
30°	3771.1	3684.1	3597.0	3785.1	3624.9	2991.1	2597.7	2430.5	2385.3	2367.8	2381.8
32.5°	3983.6	3840.8	3736.3	4063.6	3496.1	2681.2	2239.0	2085.8	2044.0	2023.1	2016.2
35°	4338.7	4157.7	4053.2	4307.4	3315.0	2336.5	1911.7	1803.7	1758.5	1713.2	1706.2
37.5°	4850.6	4631.2	4537.2	4446.7	3060.8	1995.3	1661.0	1587.9	1521.7	1452.0	1448.6
40°	5463.5	5177.9	5108.3	4509.4	2709.1	1674.9	1486.9	1417.2	1333.7	1267.5	1271.0
42.5°	6170.3	5804.7	5655.0	4491.9	2273.8	1504.3	1361.5	1284.9	1211.8	1152.6	1149.1
45°	6926.0	6511.6	6166.9	4370.1	1842.0	1385.9	1284.9	1194.4	1121.2	1055.1	1048.1
47.5°	7761.7	7298.5	6640.4	4133.3	1521.7	1302.3	1239.6	1110.8	1044.6	1002.9	1002.9
50°	8604.3	8050.7	7075.7	3774.6	1333.7	1239.6	1173.5	1065.5	1013.3	978.5	978.5
52.5°	9325.1	8834.2	7434.3	3346.3	1215.3	1187.4	1128.2	1044.6	988.9	957.6	954.1
55°	10025.1	9561.9	7754.7	2921.5	1117.8	1117.8	1117.8	1027.2	964.5	936.7	933.2
57.5°	10721.5	10328.0	8089.0	2642.9	1030.7	1058.6	1096.9	1006.3	943.7	919.3	915.8
60°	11508.4	11247.3	8475.5	2447.9	954.1	995.9	1069.0	982.0	908.8	887.9	884.5
62.5°	12344.1	12344.1	8827.2	2172.8	884.5	943.7	1027.2	950.6	877.5	860.1	856.6
65°	12998.8	13280.8	9053.5	1762.0	814.8	891.4	978.5	908.8	835.7	832.2	825.3
67.5°	13075.4	13517.6	8910.8	1330.2	752.1	835.7	929.7	863.6	793.9	793.9	783.5
70°	12525.2	12974.4	8465.1	995.9	706.9	780.0	867.1	807.9	741.7	748.7	731.2
72.5°	11605.9	11717.4	7357.7	787.0	654.6	720.8	790.4	745.2	686.0	686.0	661.6
75°	10394.2	9774.3	5345.1	658.1	592.0	651.2	713.8	675.5	623.3	605.9	592.0
77.5°	8273.5	7082.7	3106.1	567.6	539.7	585.0	626.8	598.9	553.7	515.4	515.4
80°	5042.1	4150.7	1372.0	491.0	477.1	511.9	539.7	508.4	470.1	431.8	421.3
82.5°	1918.7	1601.8	665.1	421.3	417.9	438.7	459.6	428.3	400.4	383.0	330.8
85°	525.8	484.0	456.2	351.7	344.7	341.2	365.6	351.7	313.4	257.7	229.8
87.5°	198.5	226.3	247.2	215.9	229.8	212.4	243.7	222.9	198.5	128.8	114.9
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)