

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: P399663

Luminaire Tested: **ARCH-L-PA3-170-760-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399663
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-PA3-170-760-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26039 lumens
Efficiency: N/A
Efficacy: 150.5 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

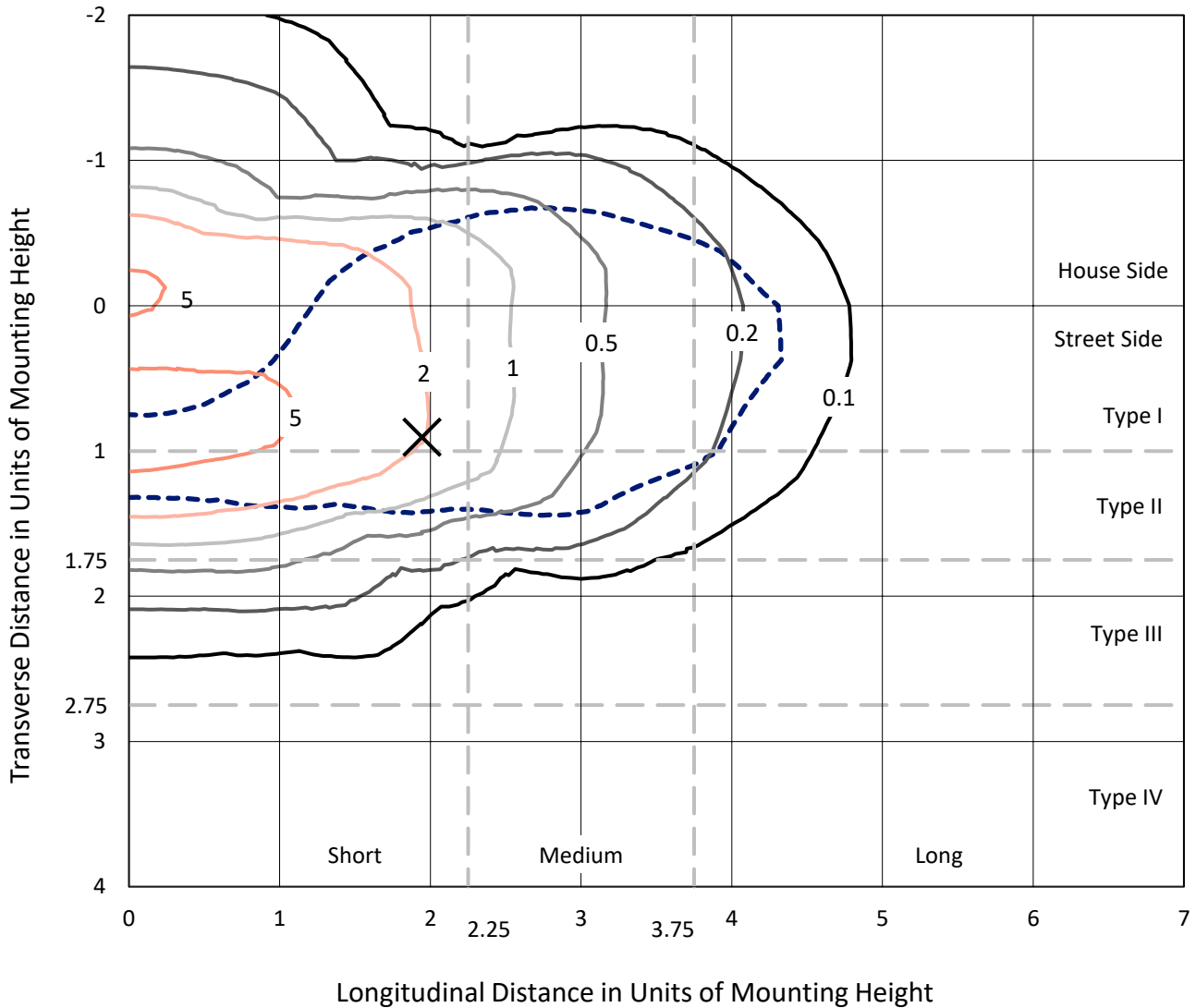
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

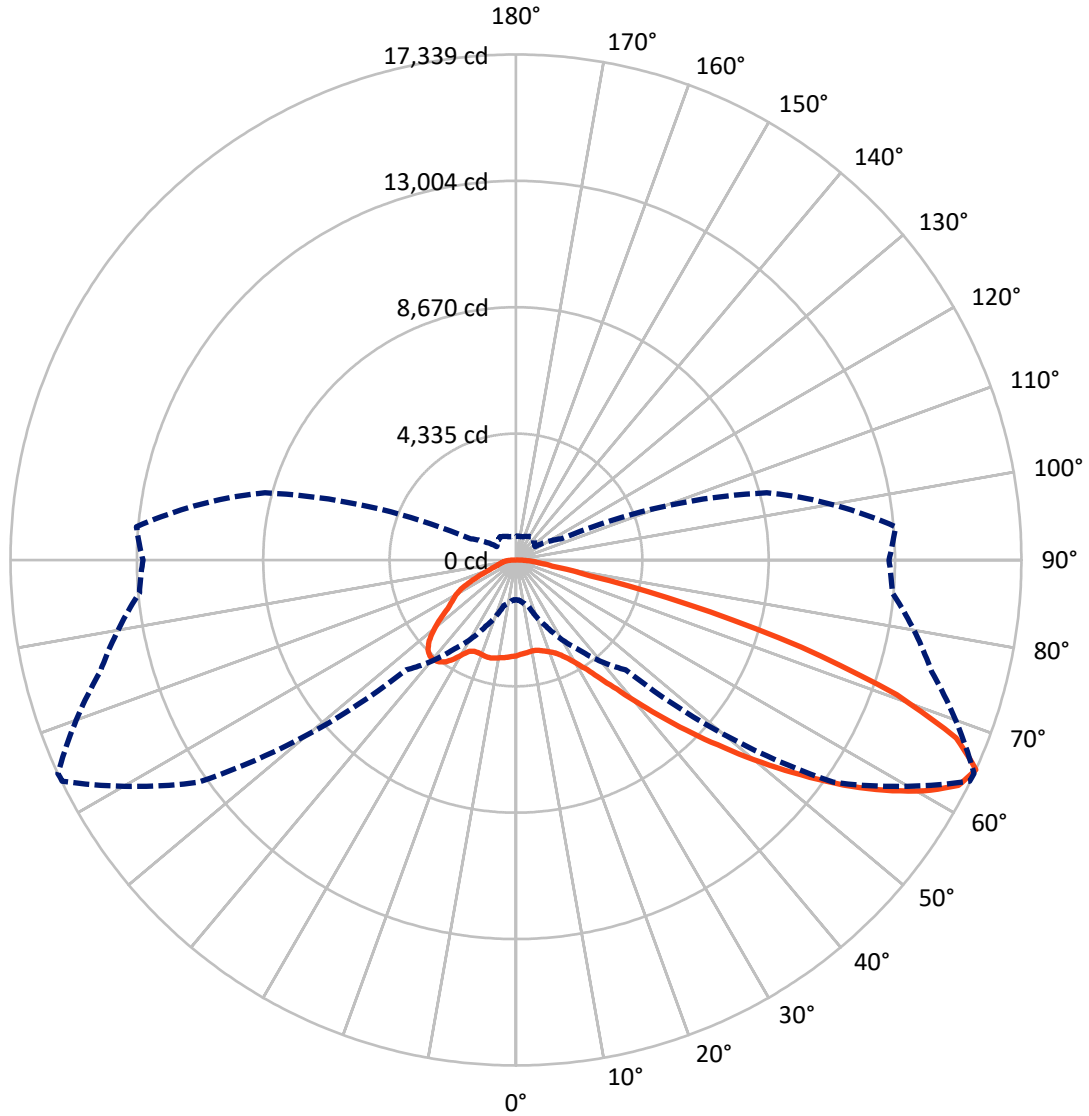
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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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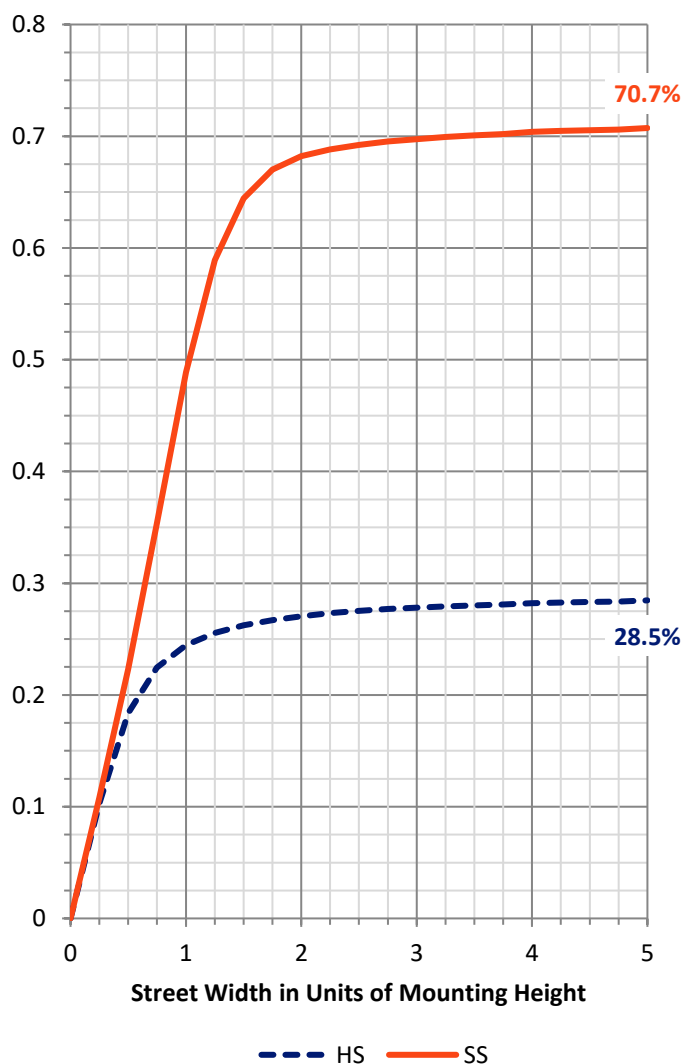
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7528.3	0.0	7528.3
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	18510.7	0.0	18510.7
	% Fixture	71.1	0.0	71.1
Total	Lumens	26039.0	0.0	26039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	1.2
10°-20°	935.9	3.6
20°-30°	1662.4	6.4
30°-40°	2812.4	10.8
40°-50°	4895.8	18.8
50°-60°	6327.0	24.3
60°-70°	5536.5	21.3
70°-80°	3011.4	11.6
80°-90°	544.1	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°	26039.0	100.0
0°-180°	26039.0	100.0

Coefficient of Utilization



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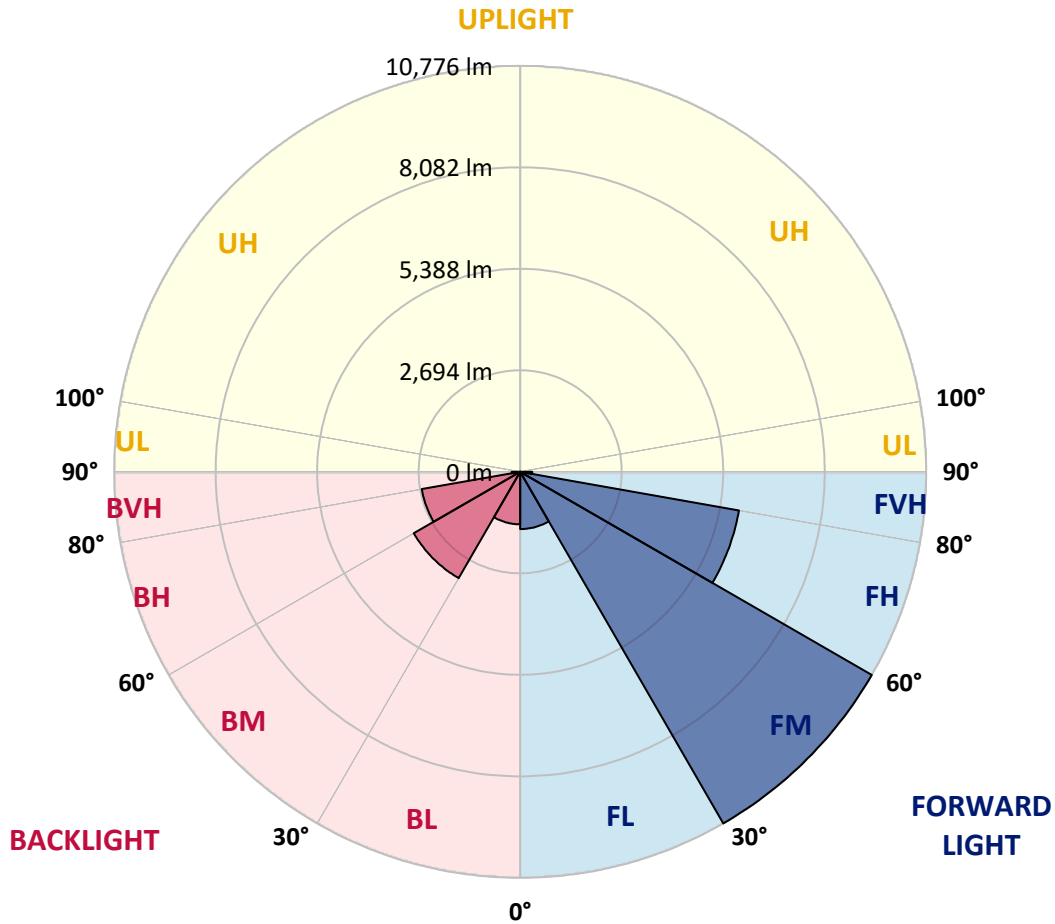
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1519.3	5.8			
FM	(30°-60°)	10775.6	41.4			
FH	(60°-80°)	5895.6	22.6			G3/7500
FVH	(80°-90°)	320.2	1.2			G3/500
BL	(0°-30°)	1392.5	5.3	B3/2500		
BM	(30°-60°)	3259.6	12.5	B3/5000		
BH	(60°-80°)	2652.3	10.2	B4/5000		G4/5000
BVH	(80°-90°)	223.9	0.9			G2/225
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°	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3
2.5°	3232.0	3228.6	3221.7	3228.6	3232.0	3238.9	3235.4	3242.3	3238.9	3249.1	3266.3
5°	3149.8	3142.9	3139.5	3156.6	3166.9	3184.0	3190.9	3214.9	3211.4	3228.6	3256.0
7.5°	3057.2	3057.2	3053.8	3074.4	3088.1	3118.9	3142.9	3184.0	3187.5	3218.3	3249.1
10°	2985.2	2988.7	2985.2	3002.4	3022.9	3060.6	3101.8	3160.0	3163.5	3208.0	3238.9
12.5°	2957.8	2957.8	2957.8	2981.8	3009.2	3060.6	3108.6	3170.3	3177.2	3225.2	3252.6
15°	2995.5	2999.0	2992.1	3016.1	3046.9	3108.6	3153.2	3218.3	3225.2	3269.7	3286.9
17.5°	3129.2	3142.9	3125.8	3139.5	3132.6	3180.6	3221.7	3286.9	3290.3	3328.0	3334.8
20°	3393.1	3406.8	3379.4	3362.3	3300.6	3297.1	3314.3	3365.7	3365.7	3389.7	3372.5
22.5°	3801.0	3814.7	3766.7	3701.6	3554.2	3482.2	3444.5	3468.5	3465.1	3475.4	3430.8
25°	4342.5	4339.1	4280.8	4160.8	3924.3	3749.5	3657.0	3619.3	3619.3	3598.7	3543.9
27.5°	5014.2	4962.8	4860.0	4716.1	4387.0	4143.7	3944.9	3848.9	3831.8	3770.1	3667.3
30°	5730.6	5692.9	5545.5	5336.4	4956.0	4644.1	4315.1	4123.1	4112.8	3979.2	3824.9
32.5°	6573.7	6512.0	6347.5	6097.3	5641.5	5202.8	4791.5	4500.1	4483.0	4270.5	4058.0
35°	7656.8	7605.3	7286.6	7036.4	6450.3	5874.5	5387.8	5000.5	4986.8	4726.3	4455.6
37.5°	8955.7	8822.1	8513.6	8044.0	7427.1	6745.1	6128.1	5641.5	5624.3	5336.4	4993.7
40°	10114.2	9994.2	9720.0	9288.2	8626.7	7869.2	7033.0	6443.5	6426.3	6076.7	5644.9
42.5°	10971.0	10888.8	10710.5	10460.3	9987.4	9528.1	8188.0	7413.4	7382.6	6930.1	6392.1
45°	11468.0	11402.9	11300.1	11361.7	11354.9	11269.2	9565.8	8568.4	8469.0	7883.0	7224.9
47.5°	11348.0	11289.8	11330.9	11810.7	12472.2	12969.2	11169.8	9750.9	9617.2	8852.9	8112.6
50°	10480.9	10504.9	10720.8	11639.4	13123.4	14227.0	12948.6	11097.8	10919.6	9829.7	8955.7
52.5°	8900.9	8959.2	9483.5	10768.8	13051.4	15042.7	14556.1	12489.3	12252.9	10782.5	9723.5
55°	7070.7	7218.0	7896.7	9247.1	12112.3	15101.0	15769.3	13887.7	13627.2	11677.1	10391.8
57.5°	5230.2	5449.5	6234.4	7475.1	10313.0	14179.0	16376.0	15224.4	14909.1	12564.8	11097.8
60°	3317.7	3451.4	4356.2	5819.7	7893.2	11923.8	16297.2	16362.3	16088.1	13449.0	11834.7
62.5°	2118.1	2183.2	2639.1	4150.5	5518.1	8828.9	15436.9	17222.6	17037.5	14254.4	12533.9
65°	1360.7	1388.1	1621.1	2553.4	3756.4	5329.6	13294.8	17315.1	17339.1	14758.3	12965.8
67.5°	1107.0	1120.8	1206.4	1576.6	2656.2	2944.1	9260.8	15999.0	16290.3	14628.0	12818.4
70°	1007.6	1024.8	1113.9	1257.8	2056.4	2032.4	4483.0	13387.3	13863.7	13877.4	12163.7
72.5°	850.0	874.0	993.9	1189.3	1590.3	1604.0	1898.8	9535.0	10237.6	12403.7	11180.1
75°	709.5	723.2	826.0	1048.8	1347.0	1281.8	1333.2	5055.4	6069.9	9946.2	10134.7
77.5°	575.8	589.5	664.9	836.3	1196.2	997.4	1048.8	2094.1	2587.7	6751.9	8284.0
80°	411.3	425.0	510.7	651.2	904.8	898.0	778.0	1155.0	1254.4	3650.2	5381.0
82.5°	294.8	305.0	387.3	466.1	627.2	901.4	586.1	784.9	822.6	1617.7	2169.5
85°	198.8	198.8	267.3	308.5	404.4	568.9	473.0	531.2	555.2	767.7	586.1
87.5°	85.7	85.7	143.9	157.7	212.5	263.9	353.0	267.3	274.2	414.7	239.9
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°	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3	3290.3
2.5°	3276.6	3280.0	3286.9	3307.4	3321.1	3341.7	3352.0	3365.7	3365.7	3358.8	3362.3
5°	3269.7	3280.0	3304.0	3341.7	3365.7	3403.4	3430.8	3451.4	3458.2	3451.4	3454.8
7.5°	3266.3	3283.4	3324.6	3379.4	3413.7	3461.6	3499.3	3523.3	3540.5	3533.6	3537.0
10°	3256.0	3283.4	3334.8	3403.4	3454.8	3502.8	3537.0	3547.3	3557.6	3550.8	3547.3
12.5°	3269.7	3300.6	3355.4	3437.7	3495.9	3533.6	3543.9	3526.8	3502.8	3489.1	3485.6
15°	3297.1	3328.0	3382.8	3468.5	3519.9	3533.6	3509.6	3454.8	3400.0	3369.1	3365.7
17.5°	3334.8	3355.4	3400.0	3475.4	3516.5	3499.3	3451.4	3386.2	3345.1	3321.1	3324.6
20°	3358.8	3358.8	3393.1	3451.4	3485.6	3471.9	3413.7	3341.7	3276.6	3245.7	3235.4
22.5°	3393.1	3376.0	3379.4	3430.8	3478.8	3458.2	3334.8	3208.0	3115.5	3081.2	3077.8
25°	3485.6	3437.7	3406.8	3437.7	3550.8	3382.8	3136.0	2988.7	2903.0	2872.1	2875.6
27.5°	3598.7	3533.6	3468.5	3519.9	3609.0	3211.4	2882.4	2714.5	2663.1	2639.1	2649.4
30°	3711.8	3626.2	3540.5	3725.6	3567.9	2944.1	2556.8	2392.3	2347.8	2330.6	2344.3
32.5°	3920.9	3780.4	3677.6	3999.7	3441.1	2639.1	2203.8	2053.0	2011.9	1991.3	1984.4
35°	4270.5	4092.3	3989.5	4239.7	3262.9	2299.8	1881.6	1775.4	1730.8	1686.3	1679.4
37.5°	4774.3	4558.4	4465.9	4376.8	3012.7	1963.9	1634.9	1562.9	1497.8	1429.2	1425.8
40°	5377.5	5096.5	5028.0	4438.4	2666.5	1648.6	1463.5	1394.9	1312.7	1247.6	1251.0
42.5°	6073.3	5713.4	5566.1	4421.3	2238.1	1480.6	1340.1	1264.7	1192.7	1134.5	1131.0
45°	6817.0	6409.2	6069.9	4301.4	1813.1	1364.1	1264.7	1175.6	1103.6	1038.5	1031.6
47.5°	7639.6	7183.8	6536.0	4068.3	1497.8	1281.8	1220.1	1093.3	1028.2	987.1	987.1
50°	8469.0	7924.1	6964.4	3715.3	1312.7	1220.1	1155.0	1048.8	997.4	963.1	963.1
52.5°	9178.5	8695.2	7317.4	3293.7	1196.2	1168.7	1110.5	1028.2	973.4	942.5	939.1
55°	9867.4	9411.6	7632.8	2875.6	1100.2	1100.2	1100.2	1011.1	949.4	922.0	918.5
57.5°	10552.9	10165.6	7961.8	2601.4	1014.5	1041.9	1079.6	990.5	928.8	904.8	901.4
60°	11327.5	11070.4	8342.2	2409.4	939.1	980.2	1052.2	966.5	894.5	874.0	870.6
62.5°	12150.0	12150.0	8688.4	2138.7	870.6	928.8	1011.1	935.7	863.7	846.6	843.1
65°	12794.4	13072.0	8911.2	1734.3	802.0	877.4	963.1	894.5	822.6	819.1	812.3
67.5°	12869.8	13305.1	8770.6	1309.3	740.3	822.6	915.1	850.0	781.4	781.4	771.2
70°	12328.3	12770.4	8331.9	980.2	695.8	767.7	853.4	795.2	730.0	736.9	719.7
72.5°	11423.4	11533.1	7242.0	774.6	644.3	709.5	778.0	733.5	675.2	675.2	651.2
75°	10230.7	9620.6	5261.0	647.8	582.7	640.9	702.6	664.9	613.5	596.4	582.7
77.5°	8143.4	6971.3	3057.2	558.7	531.2	575.8	616.9	589.5	545.0	507.3	507.3
80°	4962.8	4085.4	1350.4	483.3	469.6	503.8	531.2	500.4	462.7	425.0	414.7
82.5°	1888.5	1576.6	654.6	414.7	411.3	431.8	452.4	421.6	394.1	377.0	325.6
85°	517.5	476.4	449.0	346.2	339.3	335.9	359.9	346.2	308.5	253.6	226.2
87.5°	195.4	222.8	243.3	212.5	226.2	209.1	239.9	219.4	195.4	126.8	113.1
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)