

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: P399854

Luminaire Tested: **ARCH-L-PA3-200-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-200-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26425 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

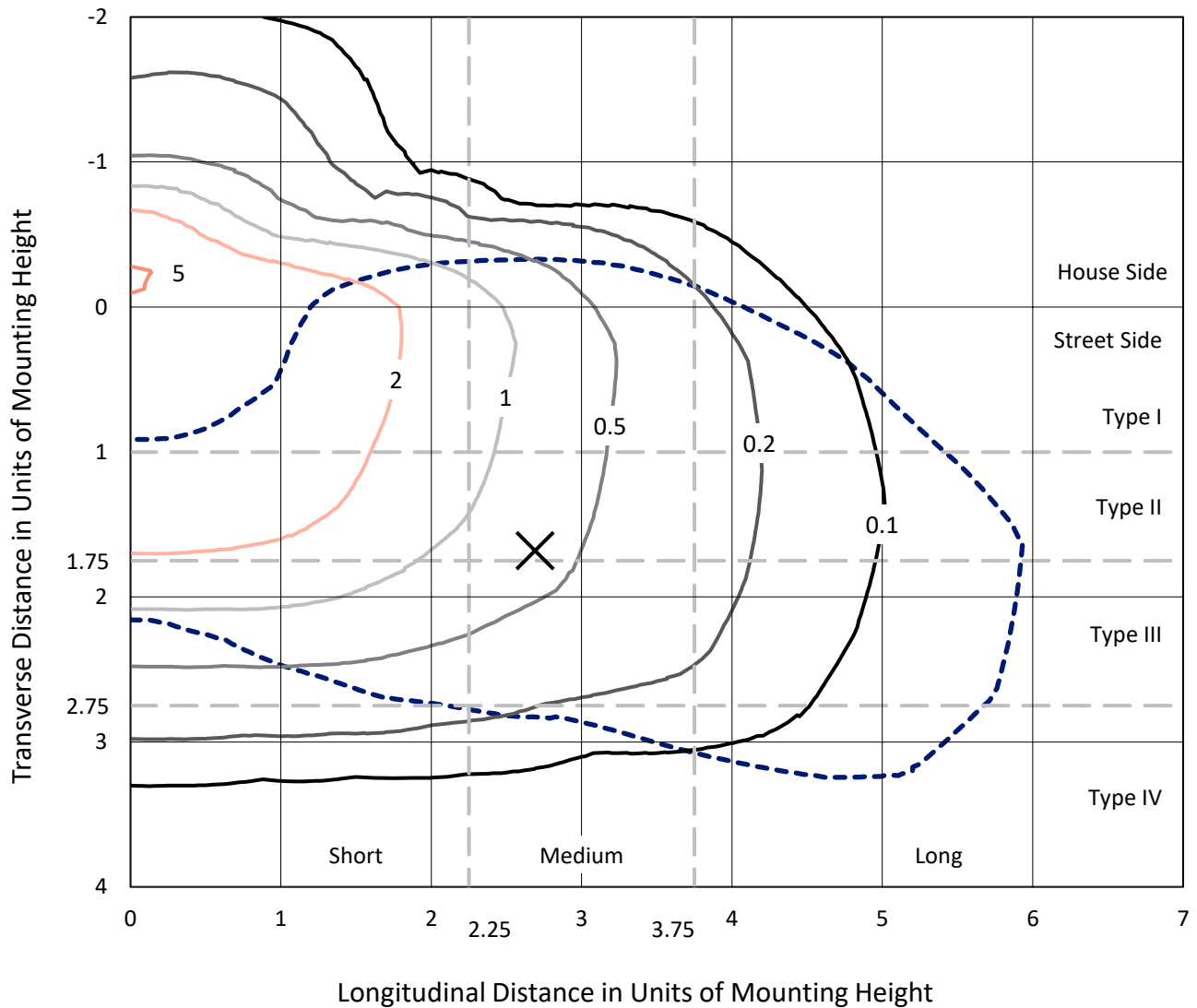
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

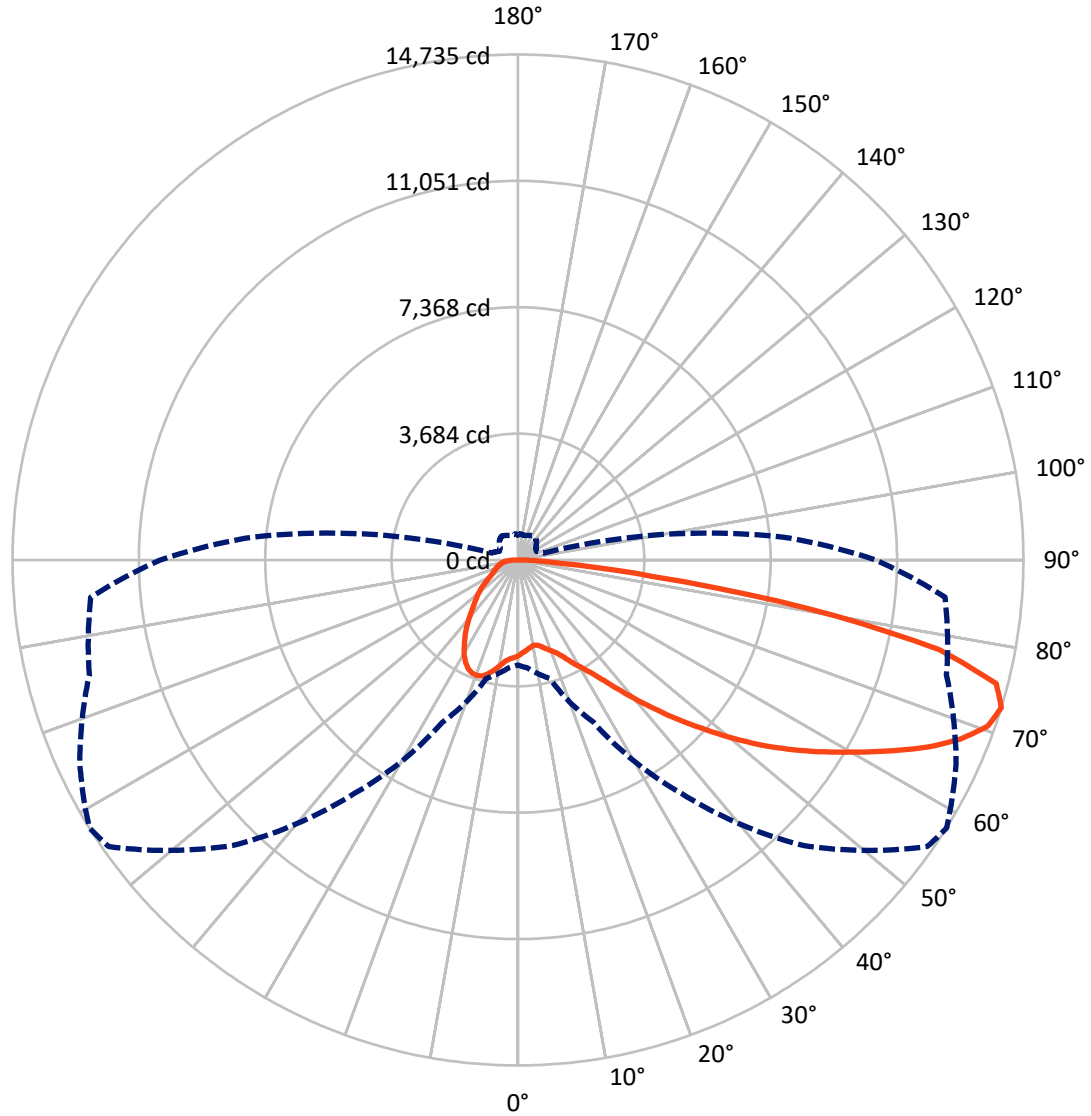
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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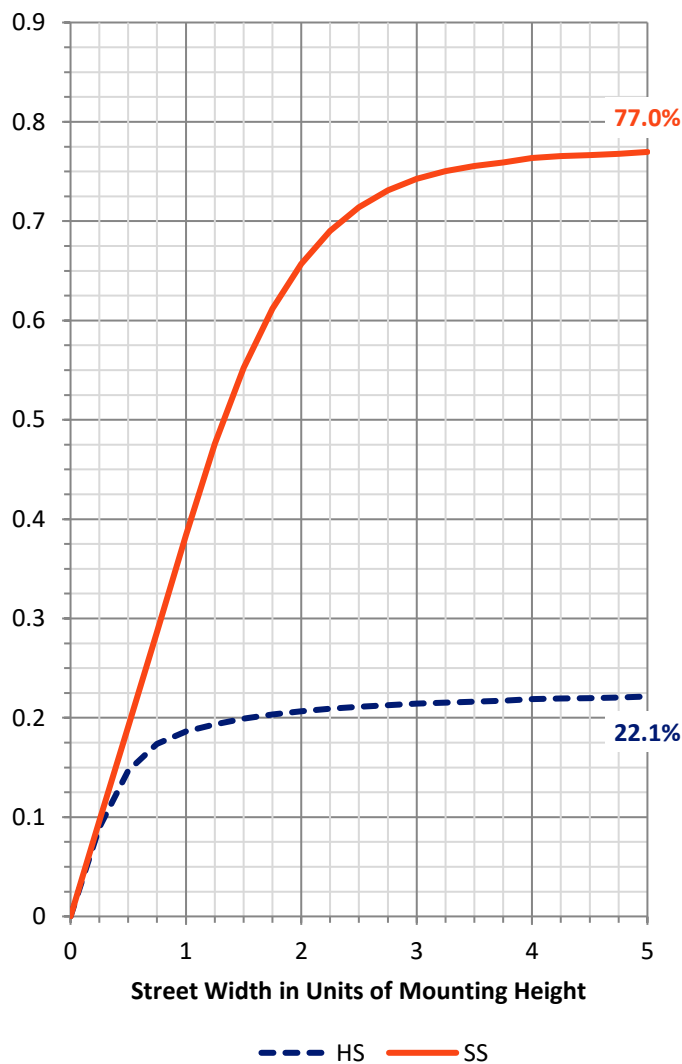
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5992.9	0.0	5992.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	20432.1	0.0	20432.1
	% Fixture	77.3	0.0	77.3
Total	Lumens	26425.0	0.0	26425.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.5	1.0
10°-20°	852.7	3.2
20°-30°	1527.5	5.8
30°-40°	2297.7	8.7
40°-50°	3720.8	14.1
50°-60°	5601.1	21.2
60°-70°	6591.8	24.9
70°-80°	4674.2	17.7
80°-90°	890.7	3.4
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°	26425.0	100.0
0°-180°	26425.0	100.0

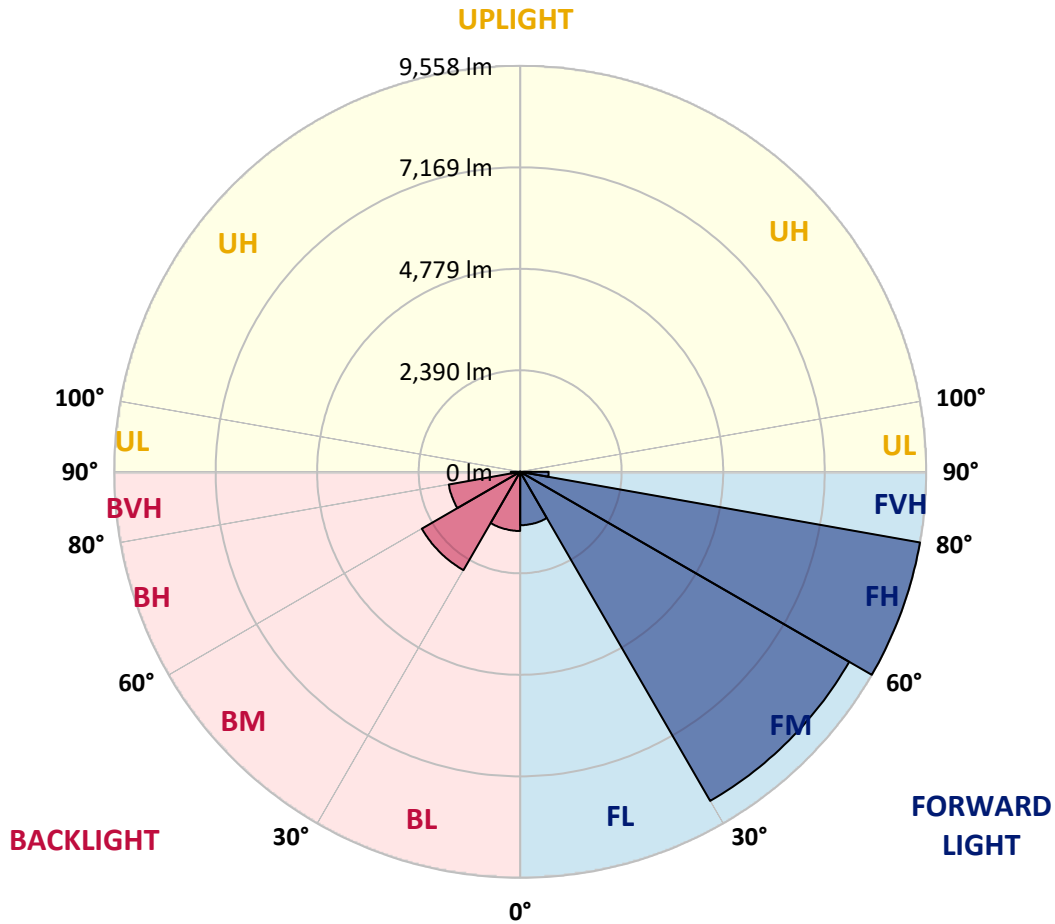


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1256.6	4.8			
FM (30°-60°)	8945.6	33.9			
FH (60°-80°)	9558.0	36.2			G4/12000
FVH (80°-90°)	671.8	2.5			G4/750
BL (0°-30°)	1392.0	5.3	B3/2500		
BM (30°-60°)	2674.0	10.1	B3/5000		
BH (60°-80°)	1708.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	218.8	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3
2.5°	2682.6	2668.7	2672.2	2672.2	2686.1	2693.1	2696.6	2707.0	2714.0	2731.5	2755.9
5°	2557.0	2546.6	2550.1	2553.5	2578.0	2602.4	2623.3	2637.3	2658.2	2686.1	2721.0
7.5°	2466.3	2459.4	2462.8	2469.8	2490.8	2518.7	2553.5	2574.5	2605.9	2658.2	2717.5
10°	2400.1	2400.1	2403.5	2417.5	2438.4	2473.3	2501.2	2525.6	2588.4	2682.6	2773.3
12.5°	2347.7	2347.7	2358.2	2386.1	2421.0	2455.9	2522.2	2550.1	2633.8	2762.9	2871.0
15°	2344.2	2347.7	2351.2	2375.6	2414.0	2490.8	2588.4	2630.3	2731.5	2885.0	3010.5
17.5°	2400.1	2403.5	2389.6	2396.6	2441.9	2550.1	2679.1	2728.0	2857.0	3024.5	3153.6
20°	2571.0	2571.0	2529.1	2490.8	2522.2	2640.8	2787.3	2836.1	2979.1	3164.0	3293.1
22.5°	2919.8	2937.3	2839.6	2755.9	2707.0	2773.3	2905.9	2958.2	3118.7	3317.5	3446.6
25°	3341.9	3359.4	3226.8	3108.2	3017.5	3007.0	3094.3	3150.1	3282.6	3488.5	3596.6
27.5°	3750.1	3718.7	3596.6	3485.0	3369.8	3275.7	3341.9	3390.8	3544.3	3701.3	3767.5
30°	4071.0	4046.6	3928.0	3847.8	3739.6	3617.5	3579.2	3631.5	3757.1	3903.6	3938.5
32.5°	4426.8	4409.4	4290.8	4186.1	4095.4	3980.3	3896.6	3921.0	3990.8	4095.4	4116.4
35°	4880.3	4918.7	4793.1	4580.3	4479.2	4367.5	4308.2	4315.2	4367.5	4433.8	4398.9
37.5°	5358.3	5403.6	5410.6	5075.7	4939.7	4838.5	4775.7	4800.1	4862.9	4908.3	4800.1
40°	6244.3	6199.0	6017.6	5769.9	5560.6	5462.9	5375.7	5372.2	5417.6	5497.8	5302.5
42.5°	7419.9	7378.1	7011.8	6690.9	6359.5	6247.8	6076.9	6003.6	6024.6	6125.7	5853.6
45°	8546.7	8529.3	8236.2	7863.0	7465.3	7249.0	6858.3	6680.4	6662.9	6743.2	6418.8
47.5°	9547.9	9471.2	9258.4	8968.8	8927.0	8361.8	7643.2	7402.5	7318.8	7364.1	7001.3
50°	10618.9	10357.2	10064.2	9886.3	10189.8	9663.0	8435.1	8183.9	7978.1	8009.5	7632.7
52.5°	11187.5	10747.9	10556.1	10608.4	11016.5	10814.2	9296.7	8989.7	8658.3	8703.7	8260.7
55°	10699.1	10695.6	10779.3	11103.8	11672.4	11438.6	10116.5	9771.2	9408.4	9418.8	8982.8
57.5°	10029.3	10165.4	10597.9	11313.1	12485.2	12094.5	10922.4	10556.1	10224.7	10172.3	9802.6
60°	9418.8	9568.8	10196.8	11278.2	12767.7	12694.5	11689.8	11368.9	11100.3	10946.8	10664.2
62.5°	8490.9	8602.5	9492.1	11054.9	12530.5	13127.1	12467.7	12248.0	12045.6	11728.2	11592.1
65°	7399.0	7437.4	8375.8	10318.9	12234.0	13294.5	13242.2	13144.5	12949.1	12481.7	12509.6
67.5°	6216.4	6293.2	7116.4	9143.2	11585.2	13217.8	13842.2	13922.4	13692.2	12991.0	13095.7
70°	4957.1	5051.3	5675.7	7517.6	10482.8	12886.4	14396.9	14525.9	14082.9	13158.5	13203.8
72.5°	3066.4	3157.1	3575.7	5222.2	8309.5	11773.5	14567.8	14735.2	14093.4	12935.2	12499.1
75°	1060.5	1071.0	1398.9	2504.7	4932.7	8888.6	14009.6	14403.8	13650.3	12122.4	10877.0
77.5°	484.9	502.3	620.9	1032.6	2187.3	4796.6	11567.7	12555.0	12303.8	10852.6	8372.3
80°	334.9	341.9	429.1	617.5	1262.8	1688.4	7301.3	8588.6	9028.1	8403.7	5365.2
82.5°	251.2	258.1	331.4	418.6	910.5	819.8	2780.3	3990.8	4960.6	4869.9	2243.1
85°	240.7	237.2	258.1	279.1	607.0	488.4	900.0	1234.9	1936.1	1657.0	565.1
87.5°	104.7	115.1	265.1	157.0	317.4	226.7	390.7	457.0	589.5	512.8	202.3
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°	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3	2787.3
2.5°	2766.3	2773.3	2794.3	2825.6	2843.1	2878.0	2902.4	2916.3	2926.8	2930.3	2930.3
5°	2741.9	2755.9	2801.2	2853.6	2902.4	2975.7	3041.9	3080.3	3108.2	3118.7	3122.2
7.5°	2748.9	2783.8	2850.1	2926.8	2989.6	3083.8	3164.0	3240.8	3303.6	3328.0	3328.0
10°	2815.2	2864.0	2954.7	3055.9	3136.1	3233.8	3317.5	3383.8	3457.1	3498.9	3505.9
12.5°	2916.3	2975.7	3094.3	3205.9	3296.6	3373.3	3450.1	3498.9	3533.8	3565.2	3572.2
15°	3059.4	3132.6	3251.2	3366.4	3446.6	3495.4	3516.4	3516.4	3512.9	3516.4	3523.3
17.5°	3202.4	3272.2	3390.8	3505.9	3544.3	3516.4	3491.9	3485.0	3481.5	3474.5	3478.0
20°	3341.9	3408.2	3509.4	3596.6	3565.2	3467.5	3436.1	3432.6	3422.2	3415.2	3408.2
22.5°	3481.5	3530.3	3614.0	3645.4	3519.9	3380.3	3341.9	3321.0	3307.1	3289.6	3272.2
25°	3641.9	3655.9	3718.7	3669.9	3408.2	3219.8	3164.0	3132.6	3118.7	3101.2	3087.3
27.5°	3792.0	3792.0	3802.4	3631.5	3244.3	3007.0	2923.3	2867.5	2864.0	2860.5	2857.0
30°	3928.0	3910.6	3875.7	3516.4	3031.5	2745.4	2619.8	2564.0	2584.9	2602.4	2605.9
32.5°	4088.5	4053.6	3955.9	3359.4	2776.8	2452.4	2298.9	2274.5	2298.9	2319.8	2305.9
35°	4339.6	4276.8	4039.6	3178.0	2532.6	2183.8	2037.3	2002.4	1995.4	1991.9	1964.0
37.5°	4698.9	4590.8	4105.9	2982.6	2291.9	1946.6	1838.4	1765.2	1698.9	1629.1	1618.6
40°	5138.5	4953.6	4151.3	2759.4	2037.3	1747.7	1632.6	1538.4	1426.8	1304.7	1290.7
42.5°	5619.9	5344.3	4172.2	2511.7	1814.0	1583.8	1440.7	1322.1	1196.5	1102.4	1084.9
45°	6139.7	5766.4	4154.8	2274.5	1632.6	1444.2	1283.8	1154.7	1053.5	987.2	973.3
47.5°	6645.5	6251.3	4105.9	2086.1	1493.1	1325.6	1161.7	1043.0	966.3	893.0	875.6
50°	7294.4	6715.3	4046.6	1939.6	1339.6	1207.0	1084.9	959.3	872.1	837.2	830.3
52.5°	8013.0	7179.2	3976.8	1754.7	1189.6	1112.8	1036.1	924.4	896.5	830.3	819.8
55°	8790.9	7730.4	3962.9	1521.0	1057.0	1046.5	987.2	955.8	962.8	830.3	812.8
57.5°	9610.7	8320.0	3994.3	1287.2	948.9	987.2	1008.2	983.7	973.3	847.7	812.8
60°	10465.4	8888.6	3900.1	1071.0	865.1	938.4	1032.6	969.8	893.0	840.7	816.3
62.5°	11295.6	9366.5	3491.9	917.5	802.3	924.4	1018.6	917.5	830.3	830.3	819.8
65°	11899.1	9579.3	2731.5	805.8	760.5	907.0	994.2	882.6	812.8	837.2	823.3
67.5°	11968.9	9359.5	1834.9	718.6	725.6	875.6	938.4	851.2	795.4	858.2	837.2
70°	11539.8	8787.4	1123.3	652.3	680.2	819.8	889.6	819.8	770.9	840.7	809.3
72.5°	10427.0	7720.0	791.9	596.5	631.4	767.5	844.2	791.9	736.1	760.5	729.1
75°	8553.7	5982.7	627.9	544.2	582.6	718.6	805.8	750.0	694.2	683.7	662.8
77.5°	6059.4	3833.8	505.8	502.3	530.2	659.3	753.5	701.2	645.4	624.4	610.5
80°	3485.0	1880.3	436.1	453.5	481.4	600.0	690.7	645.4	593.0	561.6	540.7
82.5°	1332.6	655.8	383.7	394.2	425.6	537.2	627.9	589.5	537.2	565.1	474.4
85°	432.6	359.3	314.0	324.4	355.8	446.5	554.7	523.3	464.0	411.6	380.2
87.5°	191.9	195.4	167.4	184.9	223.3	296.5	404.7	383.7	338.4	282.6	272.1
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)