

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: P399926

Luminaire Tested: **ARCH-L-PA3-210-730-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399926
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-PA3-210-730-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27235 lumens
Efficiency: N/A
Efficacy: 129.1 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

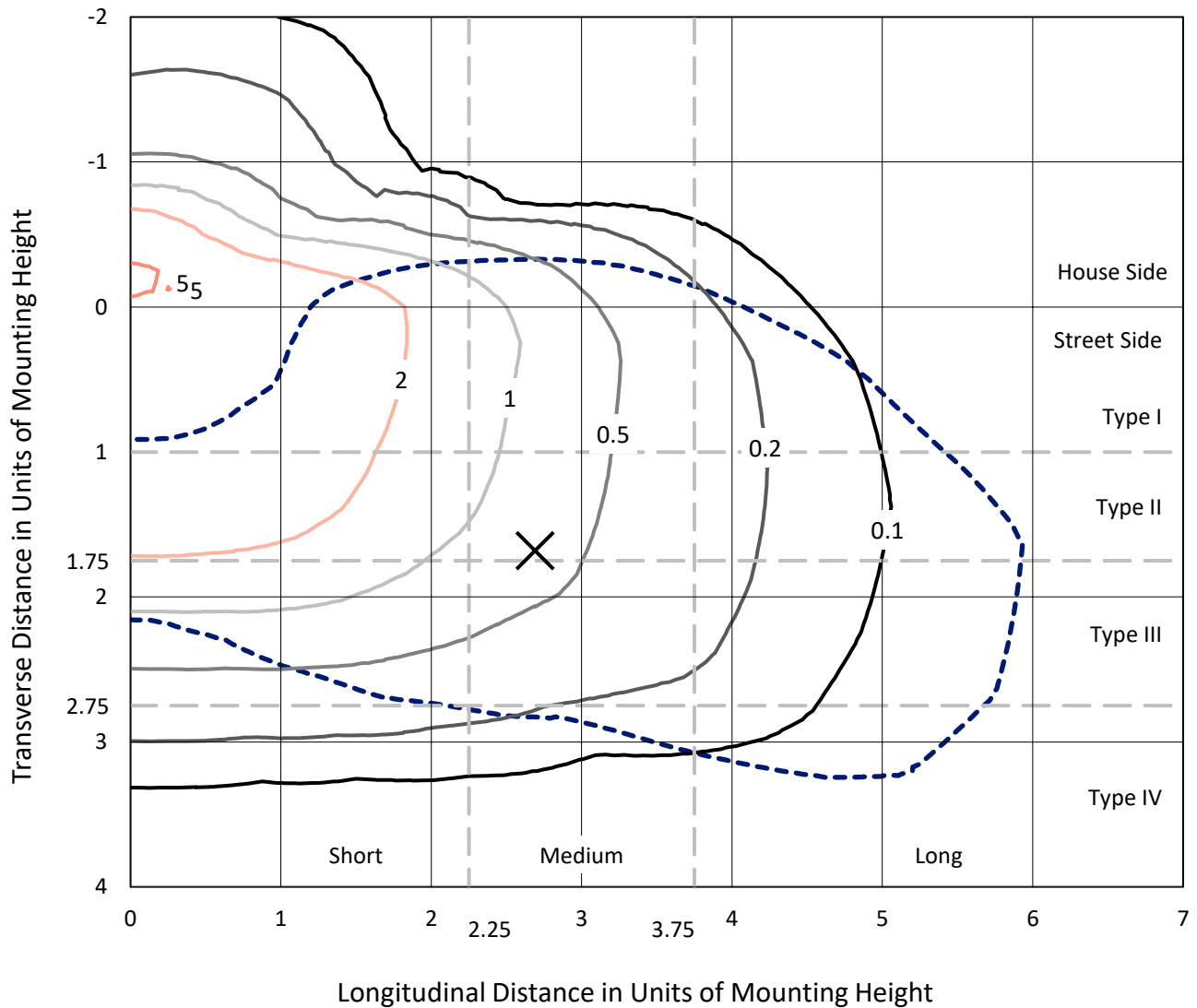
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

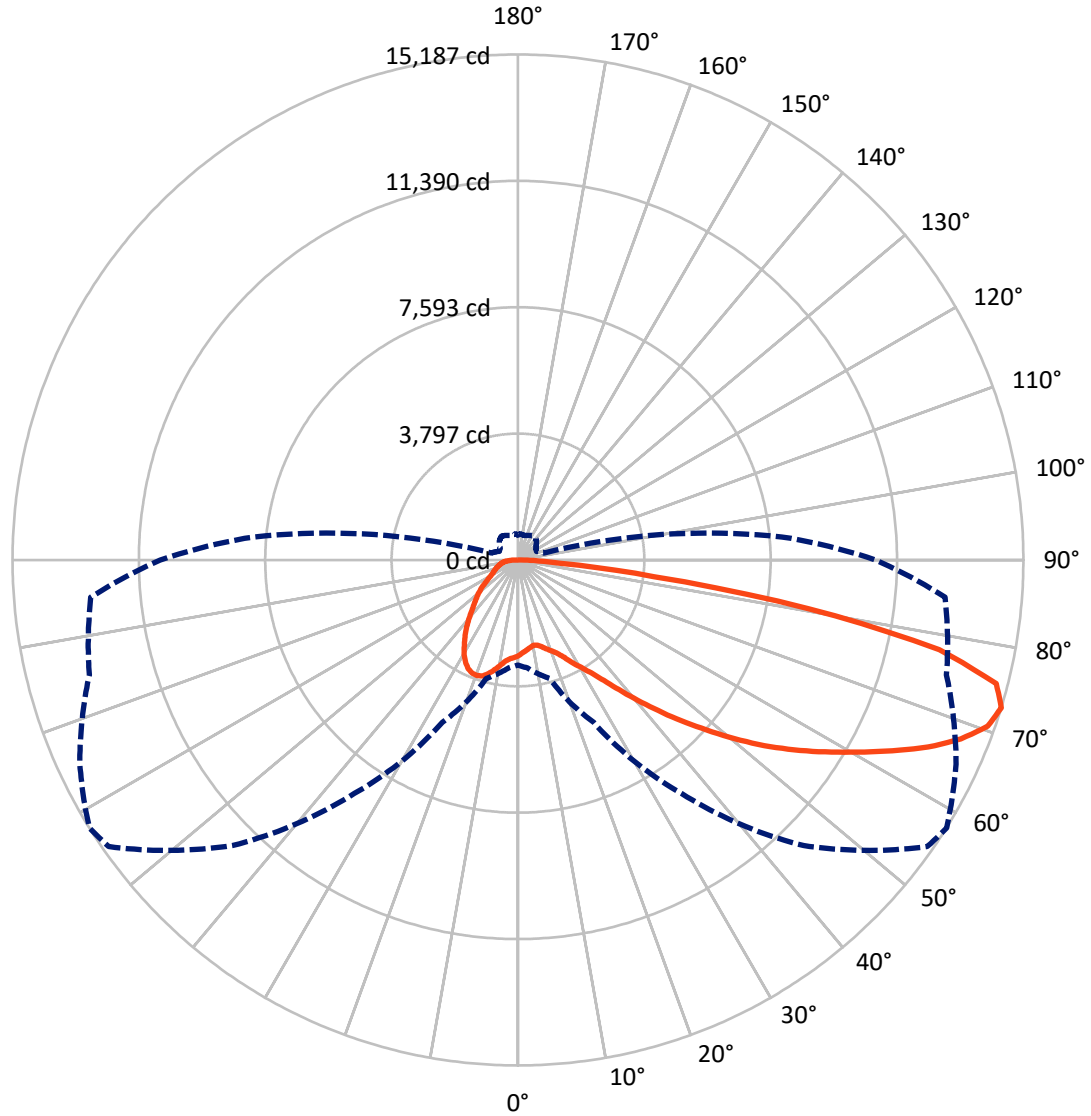
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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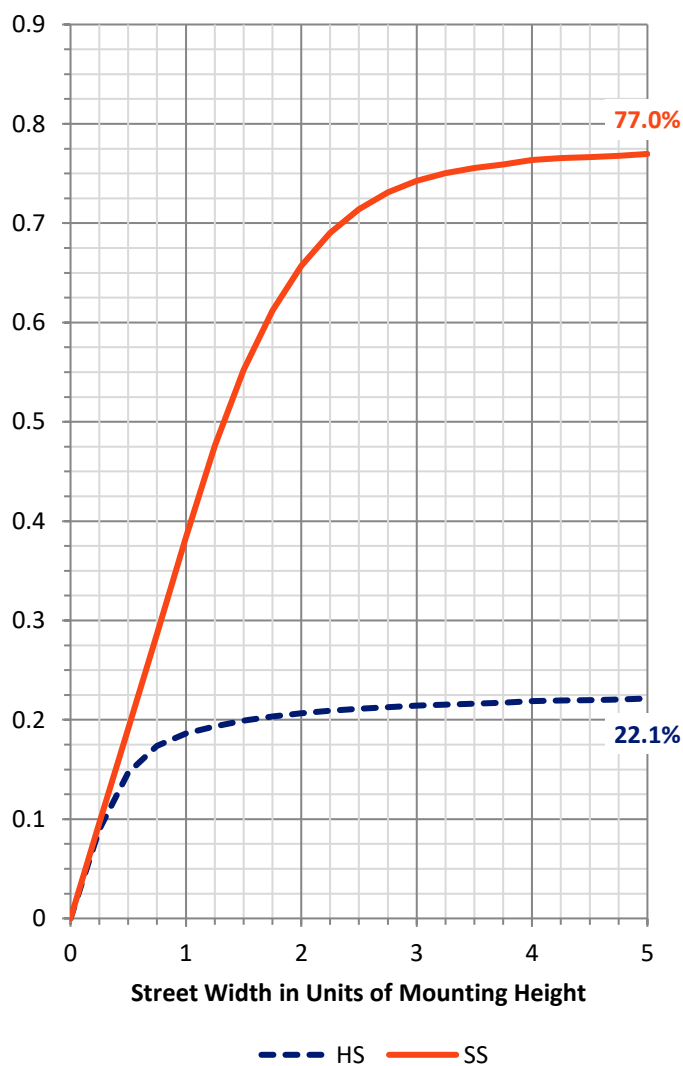
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6176.6	0.0	6176.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	21058.4	0.0	21058.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	27235.0	0.0	27235.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	1.0
10°-20°	878.8	3.2
20°-30°	1574.3	5.8
30°-40°	2368.2	8.7
40°-50°	3834.9	14.1
50°-60°	5772.7	21.2
60°-70°	6793.9	24.9
70°-80°	4817.5	17.7
80°-90°	918.0	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°	27235.0	100.0
0°-180°	27235.0	100.0

Coefficient of Utilization



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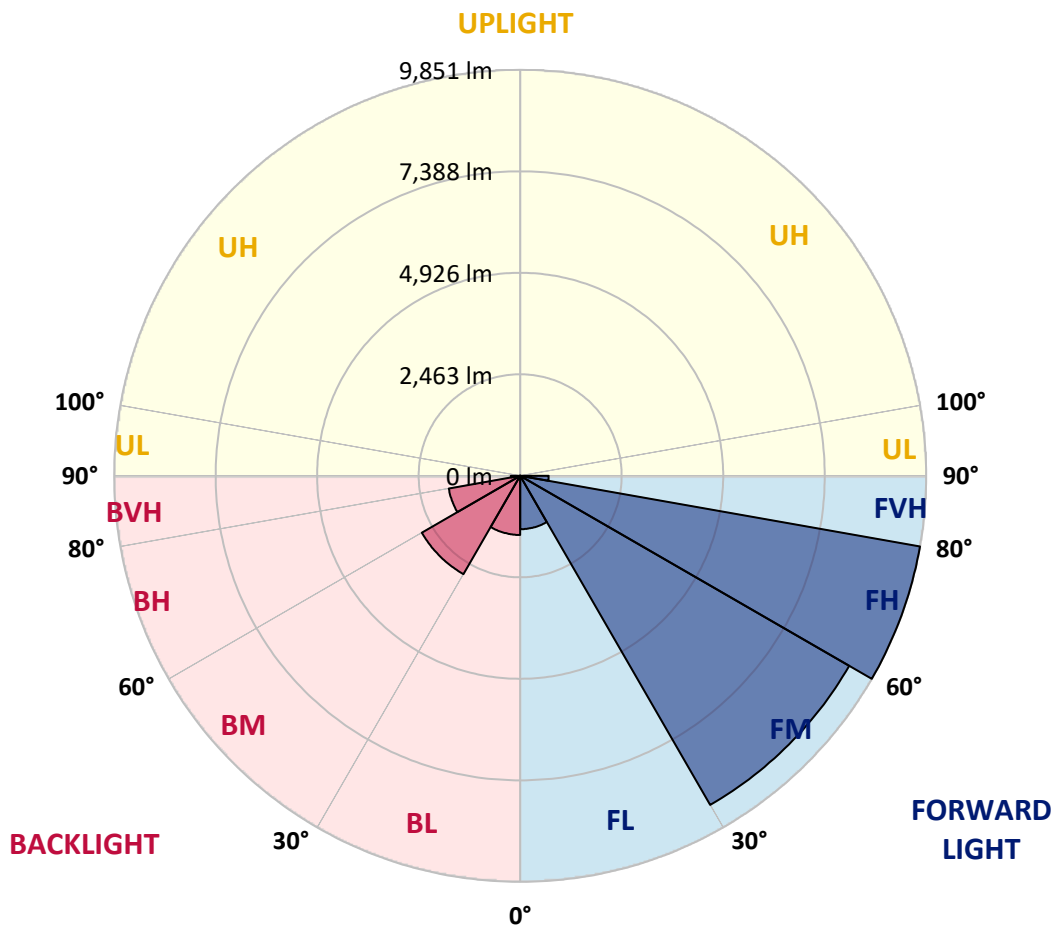
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1295.1	4.8			
FM (30°-60°)	9219.8	33.9			
FH (60°-80°)	9851.0	36.2			G4/12000
FVH (80°-90°)	692.4	2.5			G4/750
BL (0°-30°)	1434.7	5.3	B3/2500		
BM (30°-60°)	2755.9	10.1	B3/5000		
BH (60°-80°)	1760.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	225.5	0.8			G3/500
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°	2872.7	2872.7	2872.7	2872.7	2872.7	2872.7	2872.7	2872.7	2872.7	2872.7	2872.7
2.5°	2764.9	2750.5	2754.1	2754.1	2768.4	2775.6	2779.2	2790.0	2797.2	2815.2	2840.4
5°	2635.4	2624.6	2628.2	2631.8	2657.0	2682.2	2703.7	2718.1	2739.7	2768.4	2804.4
7.5°	2541.9	2534.7	2538.3	2545.5	2567.1	2595.9	2631.8	2653.4	2685.8	2739.7	2800.8
10°	2473.6	2473.6	2477.2	2491.6	2513.2	2549.1	2577.9	2603.1	2667.8	2764.9	2858.3
12.5°	2419.7	2419.7	2430.5	2459.2	2495.2	2531.2	2599.5	2628.2	2714.5	2847.5	2959.0
15°	2416.1	2419.7	2423.3	2448.5	2488.0	2567.1	2667.8	2710.9	2815.2	2973.4	3102.8
17.5°	2473.6	2477.2	2462.8	2470.0	2516.8	2628.2	2761.3	2811.6	2944.6	3117.2	3250.2
20°	2649.8	2649.8	2606.7	2567.1	2599.5	2721.7	2872.7	2923.0	3070.5	3261.0	3394.0
22.5°	3009.3	3027.3	2926.6	2840.4	2790.0	2858.3	2995.0	3048.9	3214.3	3419.2	3552.2
25°	3444.4	3462.4	3325.7	3203.5	3110.0	3099.2	3189.1	3246.6	3383.3	3595.4	3706.8
27.5°	3865.0	3832.7	3706.8	3591.8	3473.1	3376.1	3444.4	3494.7	3652.9	3814.7	3883.0
30°	4195.8	4170.6	4048.4	3965.7	3854.3	3728.4	3688.9	3742.8	3872.2	4023.2	4059.2
32.5°	4562.5	4544.6	4422.3	4314.5	4221.0	4102.3	4016.0	4041.2	4113.1	4221.0	4242.6
35°	5029.9	5069.5	4940.1	4720.7	4616.5	4501.4	4440.3	4447.5	4501.4	4569.7	4533.8
37.5°	5522.5	5569.3	5576.4	5231.3	5091.1	4986.8	4922.1	4947.3	5012.0	5058.7	4947.3
40°	6435.7	6389.0	6202.0	5946.8	5731.0	5630.4	5540.5	5536.9	5583.6	5666.3	5465.0
42.5°	7647.4	7604.2	7226.7	6896.0	6554.4	6439.3	6263.2	6187.7	6209.2	6313.5	6033.1
45°	8808.7	8790.7	8488.7	8104.0	7694.1	7471.2	7068.5	6885.2	6867.2	6949.9	6615.5
47.5°	9840.6	9761.5	9542.2	9243.7	9200.6	8618.1	7877.5	7629.4	7543.1	7589.9	7215.9
50°	10944.4	10674.7	10372.7	10189.3	10502.1	9959.2	8693.6	8434.8	8222.6	8255.0	7866.7
52.5°	11530.4	11077.4	10879.6	10933.6	11354.2	11145.7	9581.7	9265.3	8923.7	8970.5	8513.9
55°	11027.0	11023.5	11109.7	11444.1	12030.2	11789.3	10426.6	10070.7	9696.8	9707.5	9258.1
57.5°	10336.7	10477.0	10922.8	11659.8	12867.9	12465.2	11257.2	10879.6	10538.1	10484.1	10103.0
60°	9707.5	9862.1	10509.3	11623.9	13159.1	13083.6	12048.1	11717.4	11440.5	11282.3	10991.1
62.5°	8751.2	8866.2	9783.0	11393.8	12914.6	13529.4	12849.9	12623.4	12414.9	12087.7	11947.5
65°	7625.8	7665.4	8632.5	10635.2	12609.0	13702.0	13648.1	13547.4	13346.1	12864.3	12893.1
67.5°	6407.0	6486.1	7334.6	9423.5	11940.3	13622.9	14266.5	14349.2	14111.9	13389.2	13497.1
70°	5109.0	5206.1	5849.7	7748.1	10804.1	13281.4	14838.2	14971.2	14514.6	13561.8	13608.5
72.5°	3160.3	3253.8	3685.3	5382.3	8564.2	12134.4	15014.3	15186.9	14525.4	13331.7	12882.3
75°	1093.0	1103.8	1441.7	2581.5	5083.9	9161.0	14439.1	14845.3	14068.7	12494.0	11210.4
77.5°	499.8	517.7	640.0	1064.2	2254.3	4943.7	11922.3	12939.8	12680.9	11185.2	8628.9
80°	345.2	352.3	442.2	636.4	1301.5	1740.2	7525.1	8851.8	9304.9	8661.3	5529.7
82.5°	258.9	266.1	341.6	431.4	938.4	844.9	2865.5	4113.1	5112.6	5019.2	2311.8
85°	248.1	244.5	266.1	287.6	625.6	503.4	927.6	1272.8	1995.4	1707.8	582.5
87.5°	107.9	118.6	273.2	161.8	327.2	233.7	402.7	471.0	607.6	528.5	208.5
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°	2872.7	2872.7	2872.7	2872.7	2872.7	2872.7	2872.7	2872.7	2872.7	2872.7	2872.7
2.5°	2851.1	2858.3	2879.9	2912.3	2930.2	2966.2	2991.4	3005.7	3016.5	3020.1	3020.1
5°	2826.0	2840.4	2887.1	2941.0	2991.4	3066.9	3135.2	3174.7	3203.5	3214.3	3217.9
7.5°	2833.2	2869.1	2937.4	3016.5	3081.2	3178.3	3261.0	3340.1	3404.8	3430.0	3430.0
10°	2901.5	2951.8	3045.3	3149.6	3232.3	3332.9	3419.2	3487.5	3563.0	3606.2	3613.4
12.5°	3005.7	3066.9	3189.1	3304.2	3397.6	3476.7	3555.8	3606.2	3642.1	3674.5	3681.7
15°	3153.2	3228.7	3350.9	3469.5	3552.2	3602.6	3624.1	3624.1	3620.6	3624.1	3631.3
17.5°	3300.6	3372.5	3494.7	3613.4	3652.9	3624.1	3599.0	3591.8	3588.2	3581.0	3584.6
20°	3444.4	3512.7	3617.0	3706.8	3674.5	3573.8	3541.5	3537.9	3527.1	3519.9	3512.7
22.5°	3588.2	3638.5	3724.8	3757.2	3627.7	3483.9	3444.4	3422.8	3408.4	3390.4	3372.5
25°	3753.6	3768.0	3832.7	3782.3	3512.7	3318.5	3261.0	3228.7	3214.3	3196.3	3181.9
27.5°	3908.2	3908.2	3919.0	3742.8	3343.7	3099.2	3012.9	2955.4	2951.8	2948.2	2944.6
30°	4048.4	4030.4	3994.5	3624.1	3124.4	2829.6	2700.1	2642.6	2664.2	2682.2	2685.8
32.5°	4213.8	4177.8	4077.2	3462.4	2861.9	2527.6	2369.4	2344.2	2369.4	2390.9	2376.6
35°	4472.7	4407.9	4163.5	3275.4	2610.3	2250.7	2099.7	2063.8	2056.6	2053.0	2024.2
37.5°	4843.0	4731.5	4231.8	3074.1	2362.2	2006.2	1894.8	1819.3	1751.0	1679.0	1668.3
40°	5296.0	5105.4	4278.5	2844.0	2099.7	1801.3	1682.6	1585.6	1470.5	1344.7	1330.3
42.5°	5792.2	5508.1	4300.1	2588.7	1869.6	1632.3	1484.9	1362.7	1233.2	1136.1	1118.2
45°	6327.9	5943.2	4282.1	2344.2	1682.6	1488.5	1323.1	1190.1	1085.8	1017.5	1003.1
47.5°	6849.2	6442.9	4231.8	2150.0	1538.8	1366.2	1197.3	1075.0	995.9	920.4	902.4
50°	7518.0	6921.1	4170.6	1999.0	1380.6	1244.0	1118.2	988.7	898.8	862.9	855.7
52.5°	8258.6	7399.3	4098.7	1808.5	1226.0	1146.9	1067.8	952.8	924.0	855.7	844.9
55°	9060.4	7967.4	4084.4	1567.6	1089.4	1078.6	1017.5	985.1	992.3	855.7	837.7
57.5°	9905.3	8575.0	4116.7	1326.7	977.9	1017.5	1039.1	1013.9	1003.1	873.7	837.7
60°	10786.2	9161.0	4019.6	1103.8	891.7	967.2	1064.2	999.5	920.4	866.5	841.3
62.5°	11641.9	9653.6	3599.0	945.6	826.9	952.8	1049.9	945.6	855.7	855.7	844.9
65°	12263.9	9872.9	2815.2	830.5	783.8	934.8	1024.7	909.6	837.7	862.9	848.5
67.5°	12335.8	9646.4	1891.2	740.6	747.8	902.4	967.2	877.3	819.7	884.5	862.9
70°	11893.5	9056.8	1157.7	672.3	701.1	844.9	916.8	844.9	794.6	866.5	834.1
72.5°	10746.6	7956.6	816.2	614.8	650.8	791.0	870.1	816.2	758.6	783.8	751.4
75°	8815.9	6166.1	647.2	560.9	600.4	740.6	830.5	773.0	715.5	704.7	683.1
77.5°	6245.2	3951.3	521.3	517.7	546.5	679.5	776.6	722.7	665.1	643.6	629.2
80°	3591.8	1937.9	449.4	467.4	496.2	618.4	711.9	665.1	611.2	578.9	557.3
82.5°	1373.4	675.9	395.5	406.3	438.6	553.7	647.2	607.6	553.7	582.5	489.0
85°	445.8	370.3	323.6	334.4	366.7	460.2	571.7	539.3	478.2	424.3	391.9
87.5°	197.7	201.3	172.6	190.6	230.1	305.6	417.1	395.5	348.8	291.2	280.4
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)