

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: P400331

Luminaire Tested: **ARCH-L-PA3-260-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400331
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-PA3-260-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27297 lumens
Efficiency: N/A
Efficacy: 104.6 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

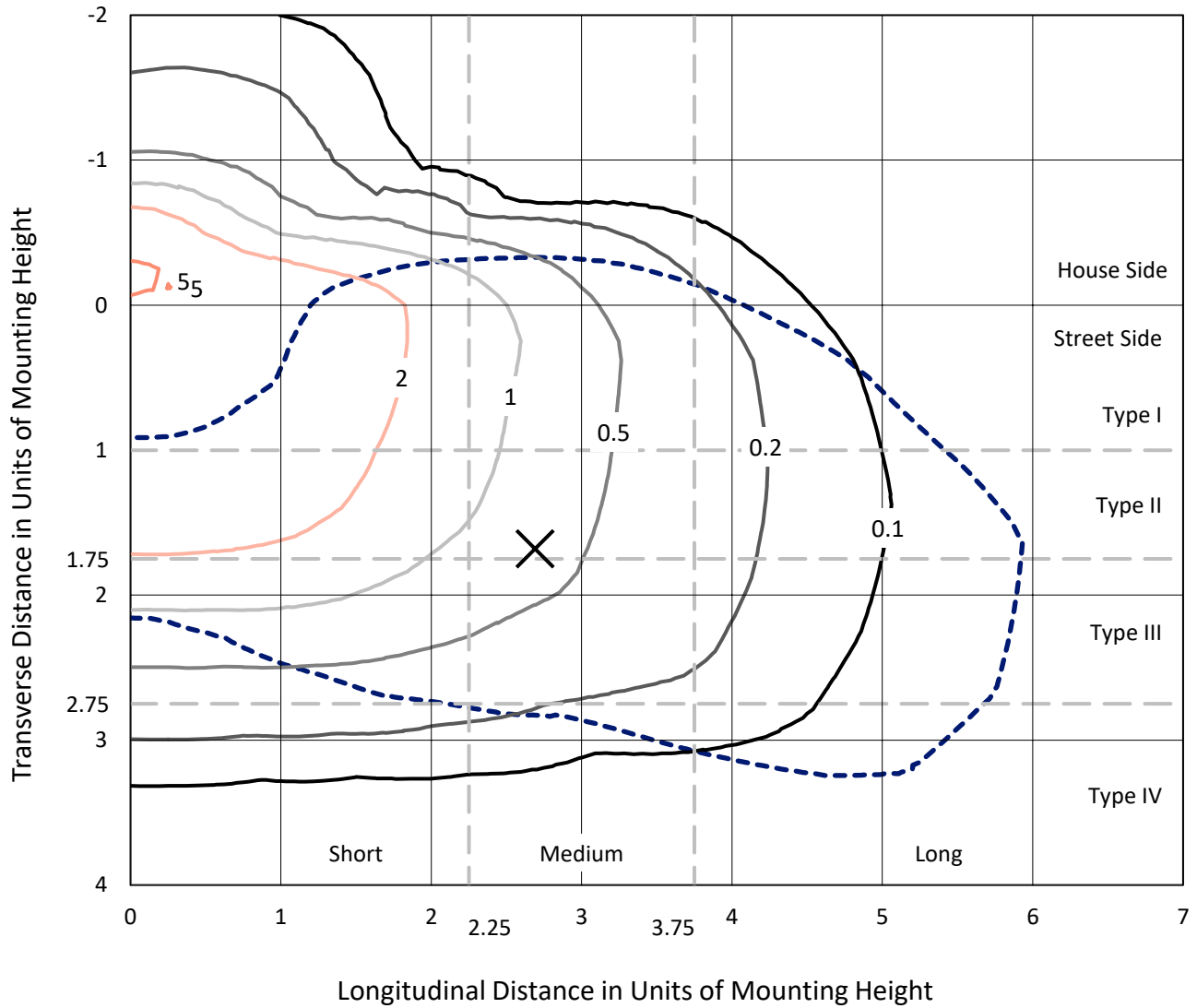
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

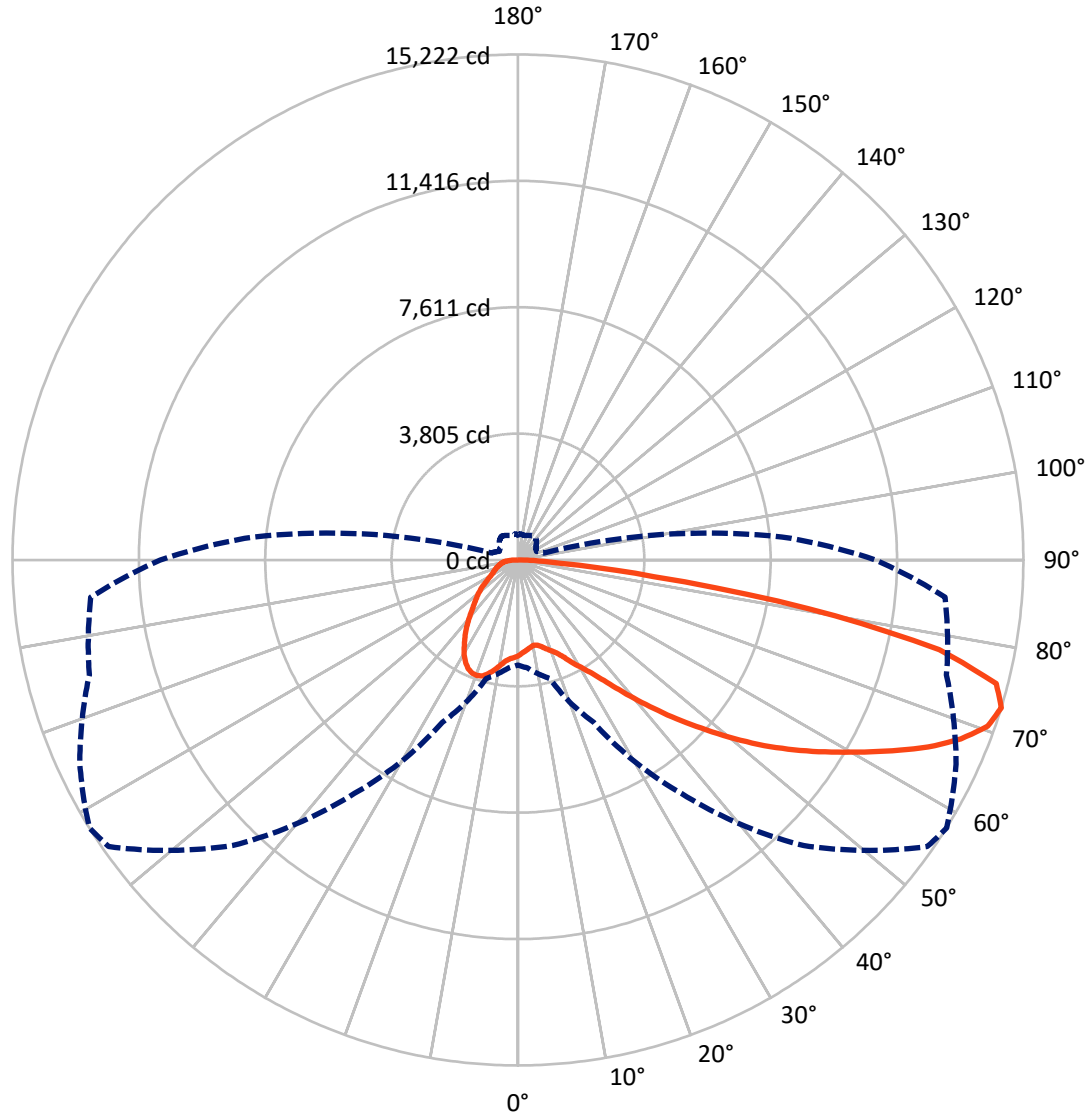
✕ Max cd
 - - - 1/2 Max cd



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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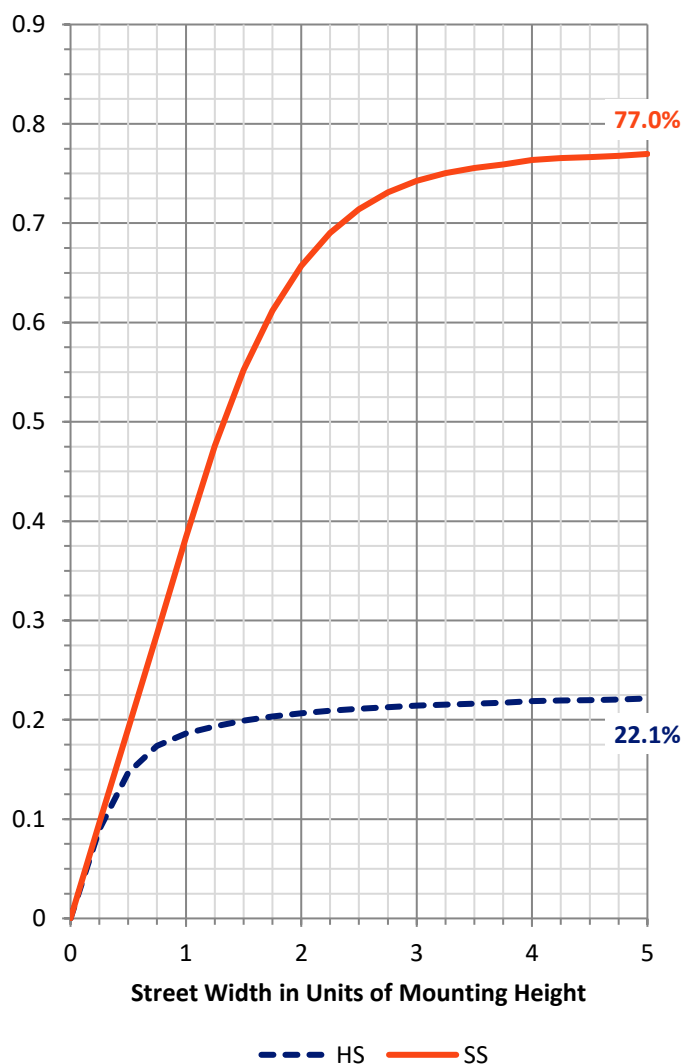
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6190.6	0.0	6190.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	21106.3	0.0	21106.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	27297.0	0.0	27297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	1.0
10°-20°	880.8	3.2
20°-30°	1577.9	5.8
30°-40°	2373.5	8.7
40°-50°	3843.6	14.1
50°-60°	5785.9	21.2
60°-70°	6809.4	24.9
70°-80°	4828.5	17.7
80°-90°	920.1	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°	27297.0	100.0
0°-180°	27297.0	100.0

Coefficient of Utilization



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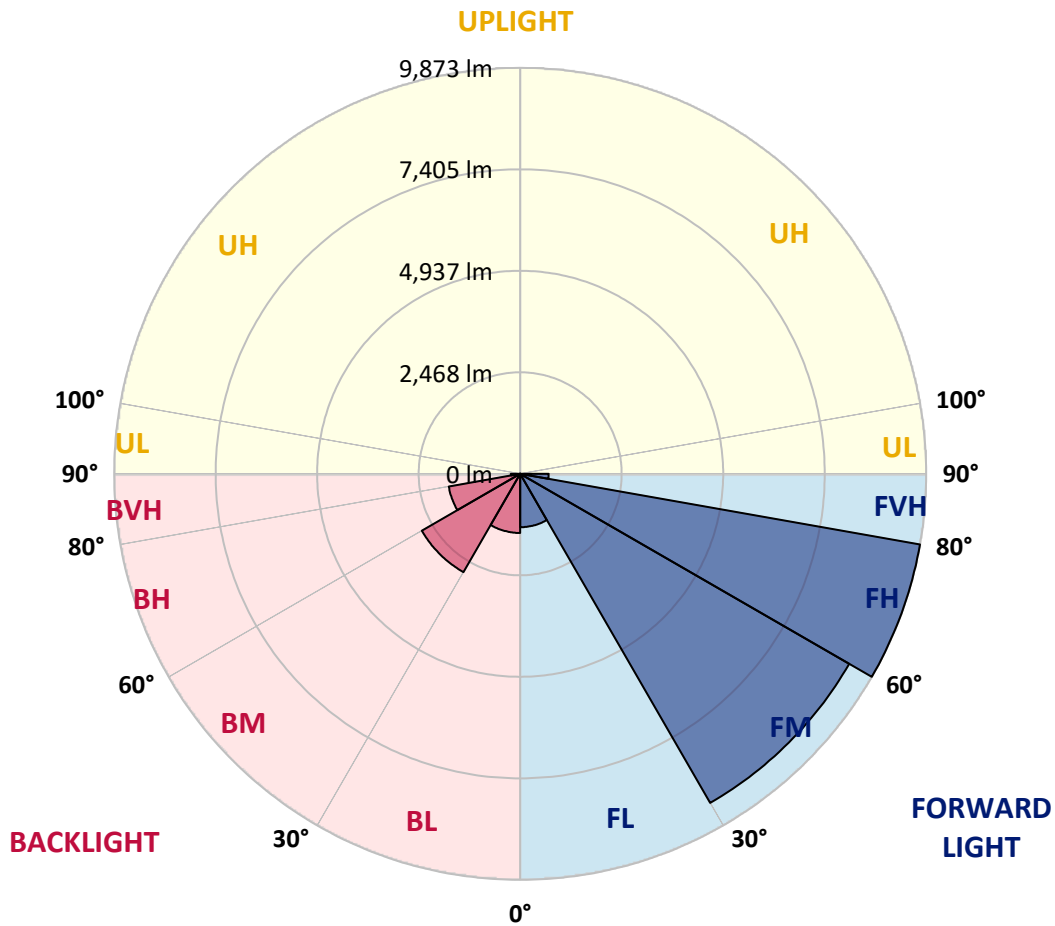
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1298.1	4.8			
FM (30°-60°)	9240.8	33.9			
FH (60°-80°)	9873.4	36.2			G4/12000
FVH (80°-90°)	694.0	2.5			G4/750
BL (0°-30°)	1438.0	5.3	B3/2500		
BM (30°-60°)	2762.2	10.1	B3/5000		
BH (60°-80°)	1764.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	226.1	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°	2879.3	2879.3	2879.3	2879.3	2879.3	2879.3	2879.3	2879.3	2879.3	2879.3	2879.3
2.5°	2771.1	2756.7	2760.3	2760.3	2774.7	2782.0	2785.6	2796.4	2803.6	2821.6	2846.8
5°	2641.4	2630.6	2634.2	2637.8	2663.0	2688.3	2709.9	2724.3	2745.9	2774.7	2810.8
7.5°	2547.7	2540.5	2544.1	2551.3	2572.9	2601.8	2637.8	2659.4	2691.9	2745.9	2807.2
10°	2479.3	2479.3	2482.9	2497.3	2518.9	2554.9	2583.8	2609.0	2673.8	2771.1	2864.8
12.5°	2425.2	2425.2	2436.0	2464.8	2500.9	2536.9	2605.4	2634.2	2720.7	2854.0	2965.7
15°	2421.6	2425.2	2428.8	2454.0	2493.7	2572.9	2673.8	2717.1	2821.6	2980.2	3109.9
17.5°	2479.3	2482.9	2468.4	2475.7	2522.5	2634.2	2767.5	2818.0	2951.3	3124.3	3257.6
20°	2655.8	2655.8	2612.6	2572.9	2605.4	2727.9	2879.3	2929.7	3077.4	3268.4	3401.8
22.5°	3016.2	3034.2	2933.3	2846.8	2796.4	2864.8	3001.8	3055.8	3221.6	3427.0	3560.3
25°	3452.2	3470.2	3333.3	3210.8	3117.1	3106.3	3196.4	3254.0	3391.0	3603.6	3715.3
27.5°	3873.8	3841.4	3715.3	3600.0	3481.0	3383.8	3452.2	3502.7	3661.2	3823.4	3891.9
30°	4205.4	4180.1	4057.6	3974.7	3863.0	3736.9	3697.3	3751.3	3881.0	4032.4	4068.4
32.5°	4572.9	4554.9	4432.4	4324.3	4230.6	4111.7	4025.2	4050.4	4122.5	4230.6	4252.2
35°	5041.4	5081.0	4951.3	4731.5	4627.0	4511.7	4450.4	4457.6	4511.7	4580.1	4544.1
37.5°	5535.1	5581.9	5589.1	5243.2	5102.7	4998.2	4933.3	4958.5	5023.4	5070.2	4958.5
40°	6450.4	6403.5	6216.2	5960.3	5744.1	5643.2	5553.1	5549.5	5596.3	5679.2	5477.4
42.5°	7664.8	7621.6	7243.2	6911.6	6569.3	6454.0	6277.4	6201.7	6223.4	6327.9	6046.8
45°	8828.7	8810.7	8508.0	8122.4	7711.6	7488.2	7084.6	6900.8	6882.8	6965.7	6630.6
47.5°	9863.0	9783.7	9563.9	9264.8	9221.5	8637.8	7895.4	7646.8	7560.3	7607.1	7232.4
50°	10969.3	10699.0	10396.3	10212.5	10526.0	9981.9	8713.4	8454.0	8241.4	8273.8	7884.6
52.5°	11556.7	11102.6	10904.4	10958.5	11380.1	11171.1	9603.5	9286.4	8944.1	8990.9	8533.3
55°	11052.2	11048.5	11135.0	11470.2	12057.5	11816.1	10450.4	10093.6	9718.8	9729.6	9279.2
57.5°	10360.3	10500.8	10947.6	11686.4	12897.2	12493.6	11282.8	10904.4	10562.1	10508.0	10126.0
60°	9729.6	9884.6	10533.2	11650.3	13189.1	13113.4	12075.6	11744.0	11466.6	11308.0	11016.1
62.5°	8771.1	8886.4	9805.3	11419.7	12944.0	13560.2	12879.2	12652.1	12443.1	12115.2	11974.7
65°	7643.2	7682.8	8652.2	10659.4	12637.7	13733.2	13679.2	13578.3	13376.5	12893.6	12922.4
67.5°	6421.6	6500.8	7351.3	9445.0	11967.5	13653.9	14299.0	14381.9	14144.0	13419.7	13527.8
70°	5120.7	5218.0	5863.0	7765.7	10828.7	13311.6	14871.9	15005.3	14547.6	13592.7	13639.5
72.5°	3167.5	3261.2	3693.7	5394.5	8583.7	12162.1	15048.5	15221.5	14558.4	13362.0	12911.6
75°	1095.5	1106.3	1445.0	2587.4	5095.4	9181.9	14471.9	14879.1	14100.8	12522.4	11235.9
77.5°	500.9	518.9	641.4	1066.7	2259.4	4954.9	11949.4	12969.3	12709.8	11210.7	8648.6
80°	345.9	353.1	443.2	637.8	1304.5	1744.1	7542.3	8872.0	9326.0	8681.0	5542.3
82.5°	259.5	266.7	342.3	432.4	940.5	846.8	2872.0	4122.5	5124.3	5030.6	2317.1
85°	248.6	245.0	266.7	288.3	627.0	504.5	929.7	1275.7	2000.0	1711.7	583.8
87.5°	108.1	118.9	273.9	162.2	327.9	234.2	403.6	472.1	609.0	529.7	209.0
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°	2879.3	2879.3	2879.3	2879.3	2879.3	2879.3	2879.3	2879.3	2879.3	2879.3	2879.3
2.5°	2857.6	2864.8	2886.5	2918.9	2936.9	2972.9	2998.2	3012.6	3023.4	3027.0	3027.0
5°	2832.4	2846.8	2893.7	2947.7	2998.2	3073.8	3142.3	3182.0	3210.8	3221.6	3225.2
7.5°	2839.6	2875.6	2944.1	3023.4	3088.3	3185.6	3268.4	3347.7	3412.6	3437.8	3437.8
10°	2908.1	2958.5	3052.2	3156.7	3239.6	3340.5	3427.0	3495.5	3571.1	3614.4	3621.6
12.5°	3012.6	3073.8	3196.4	3311.7	3405.4	3484.7	3563.9	3614.4	3650.4	3682.8	3690.1
15°	3160.3	3236.0	3358.5	3477.4	3560.3	3610.8	3632.4	3632.4	3628.8	3632.4	3639.6
17.5°	3308.1	3380.1	3502.7	3621.6	3661.2	3632.4	3607.2	3600.0	3596.4	3589.2	3592.8
20°	3452.2	3520.7	3625.2	3715.3	3682.8	3581.9	3549.5	3545.9	3535.1	3527.9	3520.7
22.5°	3596.4	3646.8	3733.3	3765.7	3636.0	3491.9	3452.2	3430.6	3416.2	3398.2	3380.1
25°	3762.1	3776.5	3841.4	3791.0	3520.7	3326.1	3268.4	3236.0	3221.6	3203.6	3189.2
27.5°	3917.1	3917.1	3927.9	3751.3	3351.3	3106.3	3019.8	2962.1	2958.5	2954.9	2951.3
30°	4057.6	4039.6	4003.6	3632.4	3131.5	2836.0	2706.3	2648.6	2670.2	2688.3	2691.9
32.5°	4223.4	4187.3	4086.4	3470.2	2868.4	2533.3	2374.8	2349.5	2374.8	2396.4	2382.0
35°	4482.8	4418.0	4172.9	3282.9	2616.2	2255.8	2104.5	2068.4	2061.2	2057.6	2028.8
37.5°	4854.0	4742.3	4241.4	3081.1	2367.5	2010.8	1899.1	1823.4	1754.9	1682.9	1672.1
40°	5308.1	5117.1	4288.2	2850.4	2104.5	1805.4	1686.5	1589.2	1473.9	1347.7	1333.3
42.5°	5805.4	5520.7	4309.9	2594.6	1873.9	1636.0	1488.3	1365.8	1236.0	1138.7	1120.7
45°	6342.3	5956.7	4291.9	2349.5	1686.5	1491.9	1326.1	1192.8	1088.3	1019.8	1005.4
47.5°	6864.8	6457.6	4241.4	2154.9	1542.3	1369.4	1200.0	1077.5	998.2	922.5	904.5
50°	7535.1	6936.9	4180.1	2003.6	1383.8	1246.8	1120.7	991.0	900.9	864.9	857.6
52.5°	8277.4	7416.1	4108.1	1812.6	1228.8	1149.5	1070.3	954.9	926.1	857.6	846.8
55°	9081.0	7985.5	4093.7	1571.2	1091.9	1081.1	1019.8	987.4	994.6	857.6	839.6
57.5°	9927.8	8594.5	4126.1	1329.7	980.2	1019.8	1041.4	1016.2	1005.4	875.7	839.6
60°	10810.7	9181.9	4028.8	1106.3	893.7	969.4	1066.7	1001.8	922.5	868.5	843.2
62.5°	11668.4	9675.6	3607.2	947.7	828.8	954.9	1052.2	947.7	857.6	857.6	846.8
65°	12291.8	9895.4	2821.6	832.4	785.6	936.9	1027.0	911.7	839.6	864.9	850.4
67.5°	12363.9	9668.4	1895.5	742.3	749.5	904.5	969.4	879.3	821.6	886.5	864.9
70°	11920.6	9077.4	1160.3	673.9	702.7	846.8	918.9	846.8	796.4	868.5	836.0
72.5°	10771.1	7974.7	818.0	616.2	652.2	792.8	872.1	818.0	760.4	785.6	753.1
75°	8836.0	6180.1	648.6	562.2	601.8	742.3	832.4	774.8	717.1	706.3	684.7
77.5°	6259.4	3960.3	522.5	518.9	547.7	681.1	778.4	724.3	666.7	645.0	630.6
80°	3600.0	1942.3	450.4	468.5	497.3	619.8	713.5	666.7	612.6	580.2	558.6
82.5°	1376.6	677.5	396.4	407.2	439.6	554.9	648.6	609.0	554.9	583.8	490.1
85°	446.8	371.2	324.3	335.1	367.6	461.3	573.0	540.5	479.3	425.2	392.8
87.5°	198.2	201.8	173.0	191.0	230.6	306.3	418.0	396.4	349.5	291.9	281.1
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)