

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: P399860

Luminaire Tested: **ARCH-L-PA3-200-740-U-T2U-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399860  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-200-740-U-T2U-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20049 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

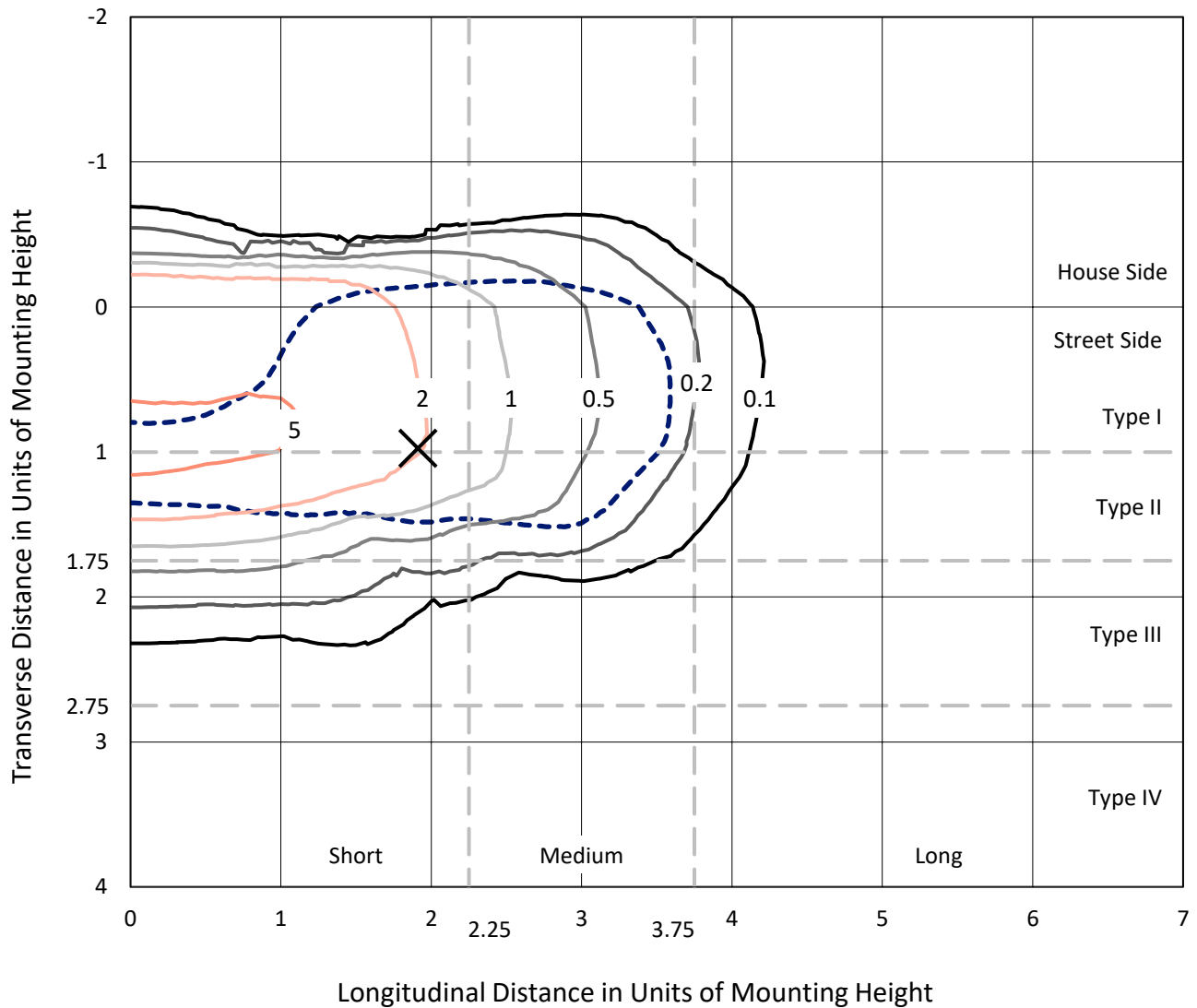
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

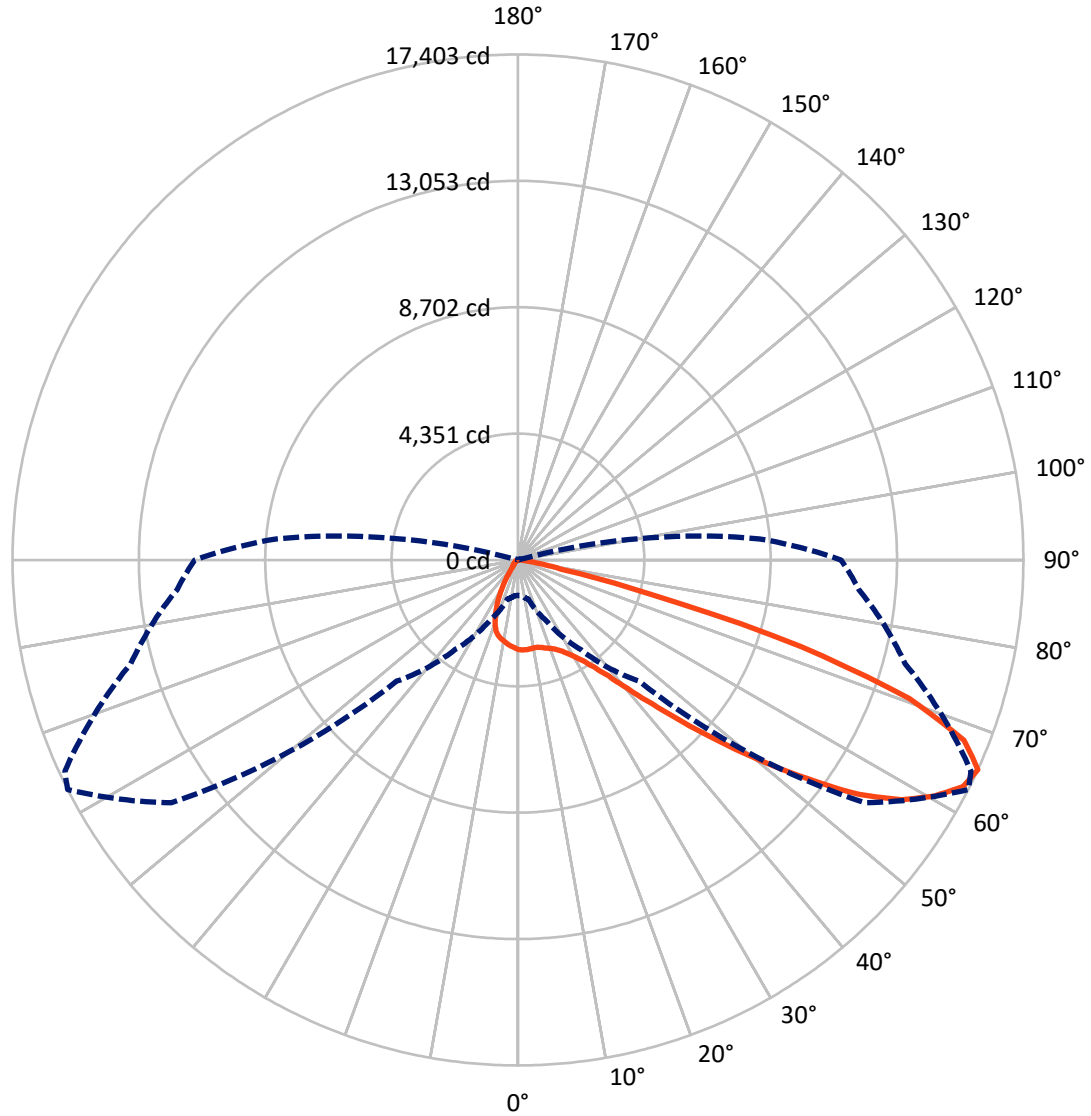
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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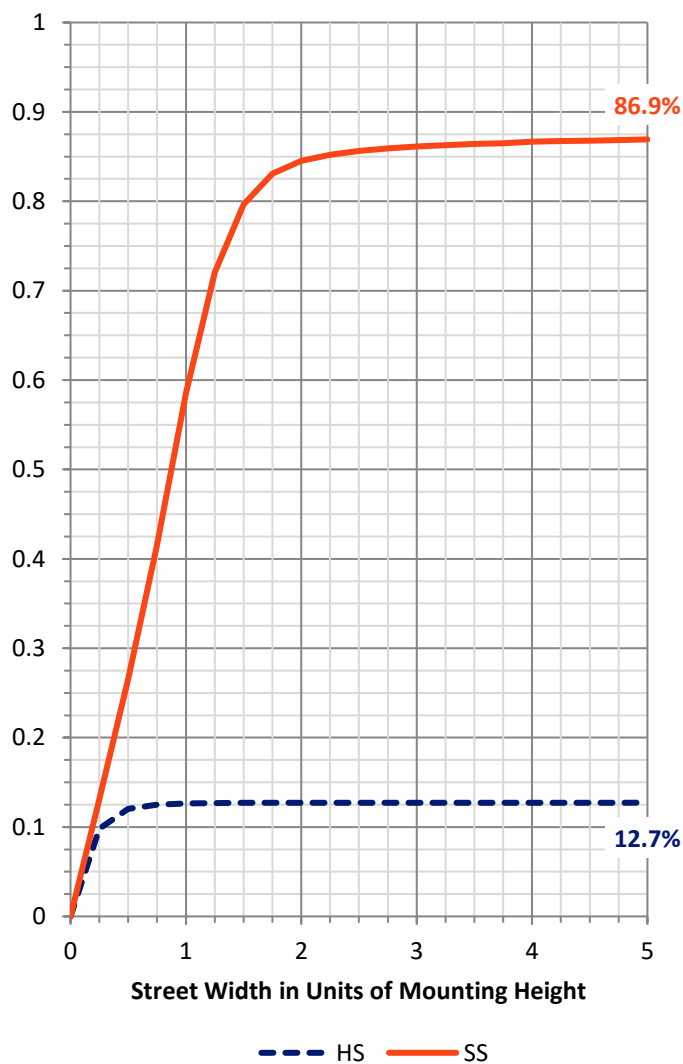
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2580.3	0.0	2580.3
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	17468.7	0.0	17468.7
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	20049.0	0.0	20049.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.8	1.4
10°-20°	695.2	3.5
20°-30°	1030.5	5.1
30°-40°	1913.3	9.5
40°-50°	4053.2	20.2
50°-60°	5604.5	28.0
60°-70°	4486.6	22.4
70°-80°	1864.1	9.3
80°-90°	119.7	0.6
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°	20049.0	100.0
0°-180°	20049.0	100.0

**Coefficient of Utilization**

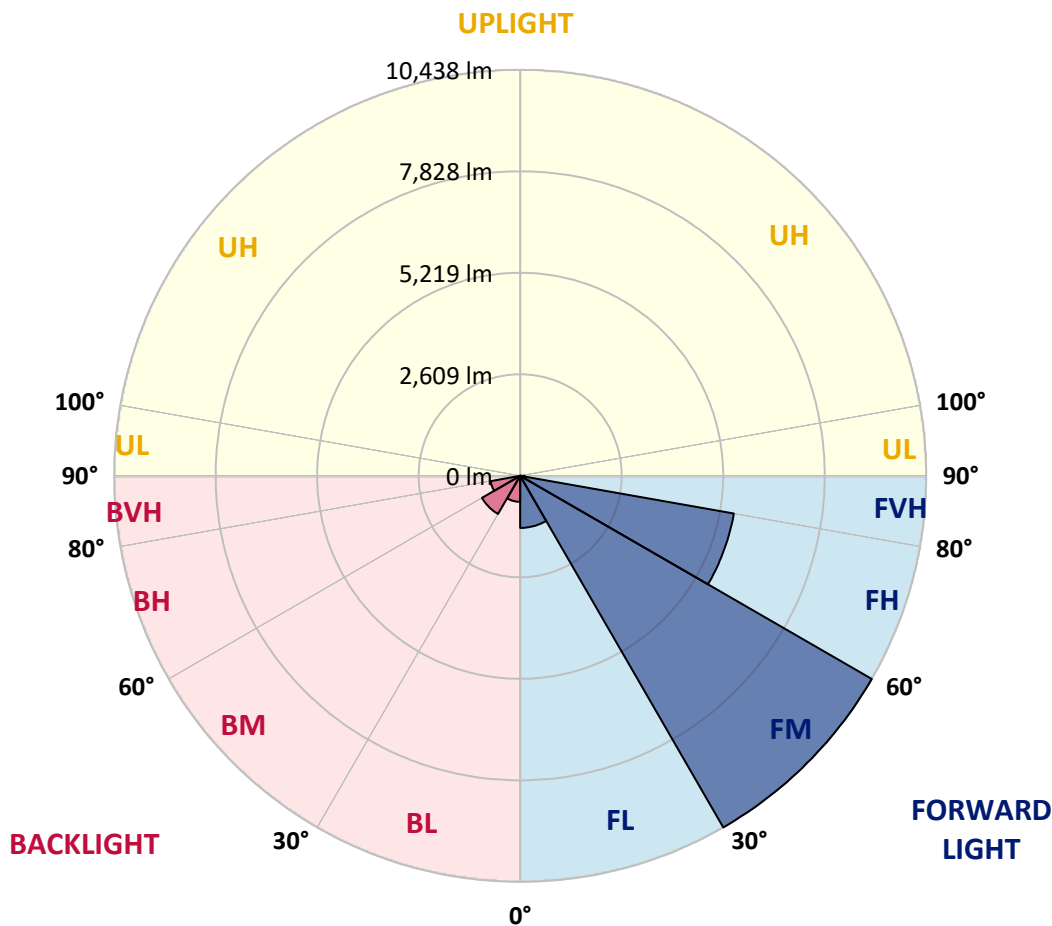


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1338.8	6.7			
FM (30°-60°)	10437.6	52.1			
FH (60°-80°)	5578.1	27.8			G3/7500
FVH (80°-90°)	114.2	0.6			G2/225
BL (0°-30°)	668.7	3.3	B2/1000		
BM (30°-60°)	1133.5	5.7	B2/2500		
BH (60°-80°)	772.6	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6
2.5°	3141.5	3134.0	3126.4	3122.6	3122.6	3118.8	3103.7	3099.9	3092.3	3084.8	3077.2
5°	3111.3	3099.9	3096.1	3099.9	3103.7	3111.3	3103.7	3103.7	3096.1	3088.6	3073.4
7.5°	3035.6	3028.0	3031.8	3043.1	3046.9	3073.4	3077.2	3088.6	3088.6	3081.0	3069.6
10°	2944.7	2940.9	2940.9	2959.9	2978.8	3016.6	3043.1	3073.4	3077.2	3077.2	3058.3
12.5°	2876.6	2872.8	2884.2	2906.9	2944.7	2993.9	3039.4	3084.8	3092.3	3096.1	3065.8
15°	2835.0	2835.0	2850.1	2895.5	2948.5	3016.6	3069.6	3130.2	3137.8	3134.0	3092.3
17.5°	2797.1	2800.9	2831.2	2906.9	2967.4	3058.3	3122.6	3190.8	3194.5	3190.8	3122.6
20°	2782.0	2789.5	2835.0	2933.4	3001.5	3103.7	3187.0	3255.1	3258.9	3243.7	3152.9
22.5°	2823.6	2827.4	2884.2	2990.1	3054.5	3168.0	3274.0	3338.4	3342.2	3319.4	3198.3
25°	2967.4	2967.4	3016.6	3107.5	3164.3	3277.8	3391.4	3467.1	3467.1	3440.6	3300.5
27.5°	3304.3	3274.0	3262.7	3289.2	3308.1	3429.2	3550.3	3645.0	3641.2	3603.3	3433.0
30°	3955.3	3879.6	3758.5	3622.2	3554.1	3637.4	3750.9	3872.1	3868.3	3807.7	3595.7
32.5°	5049.2	4939.4	4651.8	4292.2	4000.7	3906.1	4012.1	4144.6	4148.4	4076.4	3856.9
35°	6582.1	6408.0	5893.2	5393.6	4727.5	4367.9	4398.2	4542.0	4587.4	4549.6	4296.0
37.5°	8058.3	7899.3	7407.2	6714.6	5810.0	5075.7	4947.0	5071.9	5124.9	5124.9	4856.2
40°	9545.8	9360.3	8925.0	8228.6	7274.8	6180.9	5719.1	5821.3	5878.1	5889.5	5537.5
42.5°	10738.0	10616.9	10283.8	9742.6	8849.3	8118.8	6831.9	6775.1	6828.1	6786.5	6328.5
45°	11563.2	11468.5	11237.7	11033.3	10598.0	10230.9	8319.4	7937.1	7971.2	7827.4	7218.0
47.5°	11733.5	11627.5	11578.3	11862.2	12172.6	12263.4	10147.6	9318.7	9284.6	8966.7	8141.5
50°	10991.6	11003.0	11184.7	11994.7	13289.1	14106.7	12267.2	10878.1	10753.2	10045.4	9000.7
52.5°	9390.6	9572.3	10030.2	11343.6	13629.8	15446.6	14386.8	12532.1	12339.1	11093.8	9644.2
55°	7346.7	7581.4	8334.6	9844.8	12918.2	16044.6	16173.3	14250.5	13811.5	11881.1	10143.8
57.5°	5461.8	5533.7	6411.8	7789.5	11233.9	15457.9	17089.3	15575.3	15011.3	12509.4	10639.6
60°	3402.7	3448.1	4375.5	5931.1	8508.7	13289.1	17089.3	16487.5	15950.0	13073.4	11093.8
62.5°	2115.8	2131.0	2479.2	4065.1	5783.5	9856.1	16381.5	17195.3	16763.8	13478.4	11483.7
65°	1218.8	1233.9	1396.7	2297.5	3762.3	5900.8	14572.2	17403.4	17210.4	13800.1	11786.5
67.5°	889.5	897.0	961.4	1290.7	2460.2	3031.8	10946.2	16566.9	16809.2	13959.1	11778.9
70°	772.1	783.5	866.8	1006.8	1775.2	1862.2	5571.5	14307.3	14984.8	13732.0	11426.9
72.5°	594.2	609.4	734.3	946.2	1302.0	1339.9	2017.4	10181.6	11207.4	12312.6	10461.7
75°	408.8	423.9	548.8	779.7	1074.9	1003.0	1109.0	4685.8	5912.2	8258.9	7963.6
77.5°	261.2	264.9	344.4	567.7	927.3	711.6	760.8	1529.1	2146.1	3735.8	3758.5
80°	174.1	177.9	212.0	367.1	635.9	658.6	469.3	707.8	775.9	1090.1	757.0
82.5°	106.0	106.0	143.8	230.9	386.1	545.0	306.6	370.9	397.4	420.1	196.8
85°	41.6	41.6	87.1	151.4	242.2	253.6	193.0	215.7	227.1	246.0	90.8
87.5°	11.4	11.4	49.2	83.3	106.0	117.3	117.3	106.0	113.5	140.0	45.4
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°	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6	3088.6
2.5°	3073.4	3062.1	3046.9	3031.8	3016.6	3005.3	2993.9	2993.9	2986.4	2975.0	2967.4
5°	3065.8	3046.9	3012.9	2986.4	2944.7	2914.4	2891.7	2872.8	2861.5	2835.0	2831.2
7.5°	3054.5	3031.8	2982.6	2929.6	2861.5	2808.5	2755.5	2717.6	2679.8	2649.5	2641.9
10°	3035.6	3009.1	2937.2	2861.5	2766.8	2668.4	2543.5	2399.7	2267.2	2191.5	2168.8
12.5°	3035.6	3001.5	2906.9	2804.7	2668.4	2426.2	2108.2	1790.3	1544.3	1434.5	1404.2
15°	3054.5	3009.1	2884.2	2744.1	2490.5	1998.5	1483.7	1063.6	794.8	711.6	692.7
17.5°	3073.4	3009.1	2850.1	2660.9	2165.0	1449.7	844.1	560.2	473.1	454.2	454.2
20°	3081.0	3001.5	2804.7	2505.7	1729.7	900.8	503.4	420.1	386.1	374.7	374.7
22.5°	3111.3	3005.3	2770.6	2282.4	1256.6	529.9	397.4	352.0	317.9	306.6	306.6
25°	3187.0	3050.7	2778.2	1998.5	806.2	401.2	336.9	291.4	257.4	242.2	242.2
27.5°	3308.1	3152.9	2819.8	1669.2	507.2	344.4	283.9	234.7	208.2	193.0	193.0
30°	3444.3	3266.5	2838.7	1290.7	378.5	291.4	230.9	185.5	166.5	155.2	151.4
32.5°	3682.8	3463.3	2823.6	885.7	310.4	246.0	185.5	147.6	132.5	128.7	128.7
35°	4065.1	3807.7	2793.3	556.4	257.4	196.8	147.6	121.1	109.8	106.0	102.2
37.5°	4583.6	4311.1	2702.5	367.1	212.0	155.2	121.1	102.2	90.8	87.1	87.1
40°	5215.7	4886.4	2528.4	280.1	181.7	124.9	102.2	87.1	79.5	75.7	75.7
42.5°	5938.7	5526.1	2252.1	242.2	151.4	106.0	87.1	71.9	68.1	64.3	64.3
45°	6729.7	6196.0	1869.8	215.7	128.7	87.1	71.9	64.3	56.8	56.8	53.0
47.5°	7570.0	6869.8	1438.3	189.2	109.8	75.7	64.3	53.0	49.2	45.4	45.4
50°	8380.0	7471.6	1010.6	162.8	90.8	64.3	53.0	45.4	41.6	37.8	37.8
52.5°	8951.5	7834.9	715.4	140.0	75.7	56.8	41.6	34.1	30.3	30.3	30.3
55°	9409.5	8062.0	499.6	117.3	64.3	49.2	34.1	26.5	26.5	22.7	22.7
57.5°	9841.0	8209.7	367.1	98.4	53.0	37.8	26.5	18.9	18.9	15.1	15.1
60°	10287.6	8289.1	280.1	79.5	45.4	30.3	18.9	15.1	11.4	11.4	11.4
62.5°	10738.0	8338.4	215.7	64.3	37.8	22.7	15.1	11.4	7.6	3.8	3.8
65°	11131.7	8353.5	166.5	49.2	30.3	15.1	11.4	3.8	0.0	0.0	0.0
67.5°	11249.0	8179.4	128.7	37.8	22.7	11.4	7.6	0.0	0.0	0.0	0.0
70°	10931.1	7717.6	98.4	30.3	18.9	7.6	3.8	0.0	0.0	0.0	0.0
72.5°	9701.0	6472.3	75.7	18.9	15.1	7.6	3.8	0.0	0.0	0.0	0.0
75°	6941.7	3451.9	53.0	15.1	11.4	3.8	0.0	0.0	0.0	0.0	0.0
77.5°	3194.5	1336.1	37.8	11.4	7.6	3.8	0.0	0.0	0.0	0.0	0.0
80°	624.5	333.1	15.1	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	143.8	56.8	7.6	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.2	18.9	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.9	7.6	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)