

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: P399945

Luminaire Tested: **ARCH-L-PA3-210-750-U-T4W-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-210-750-U-T4W-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21558 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G4

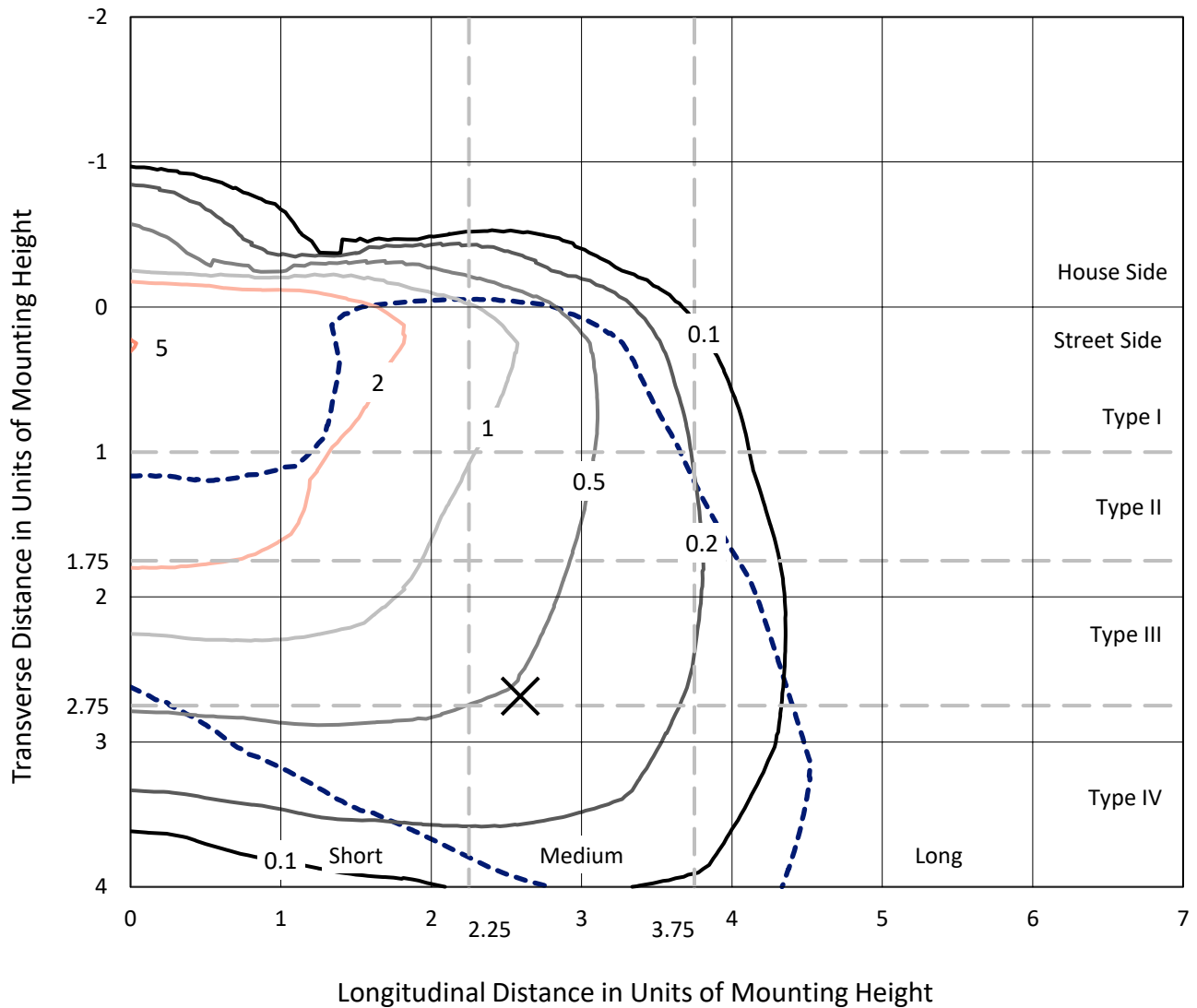
Input Watts (W): 211  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

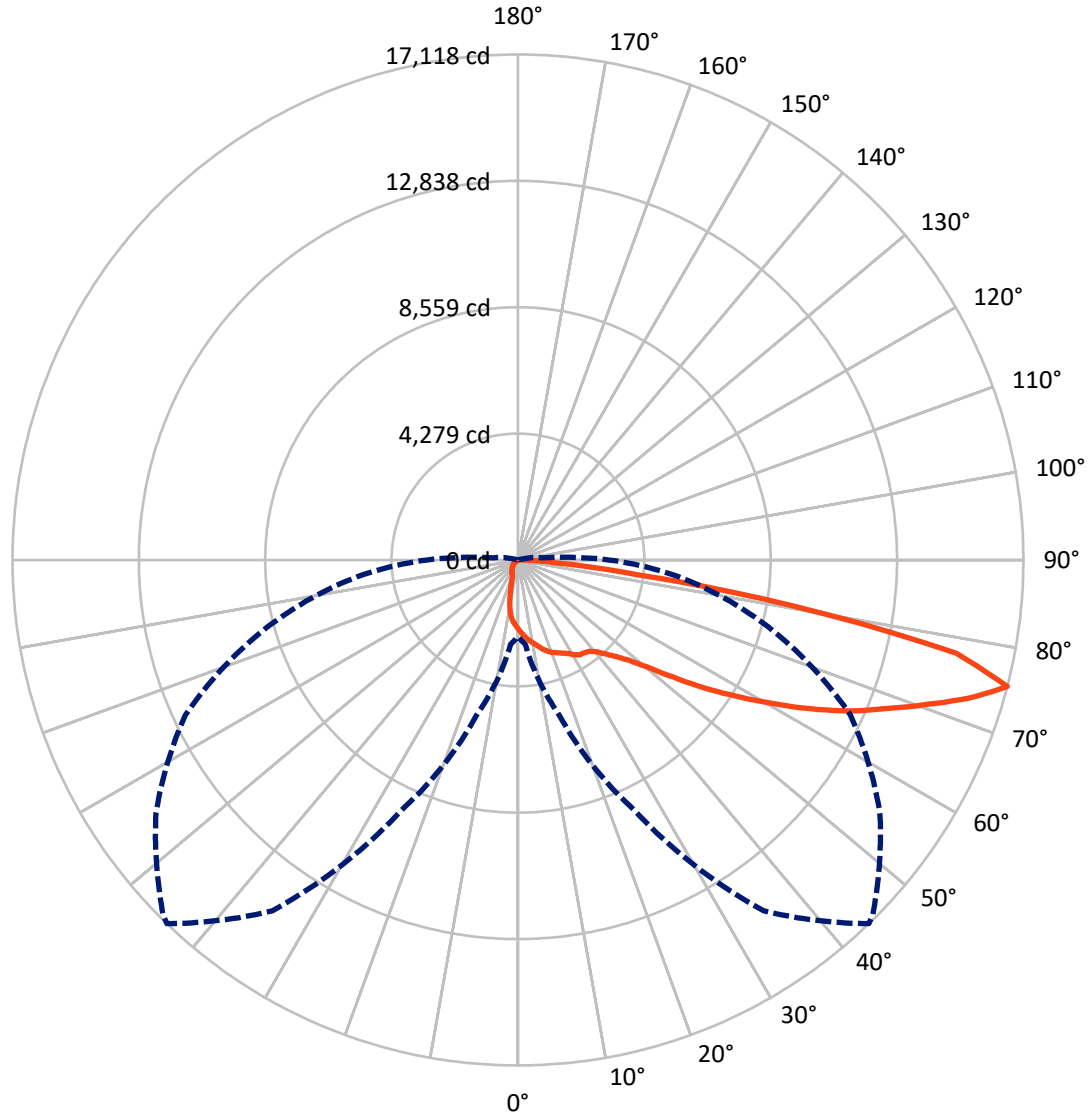
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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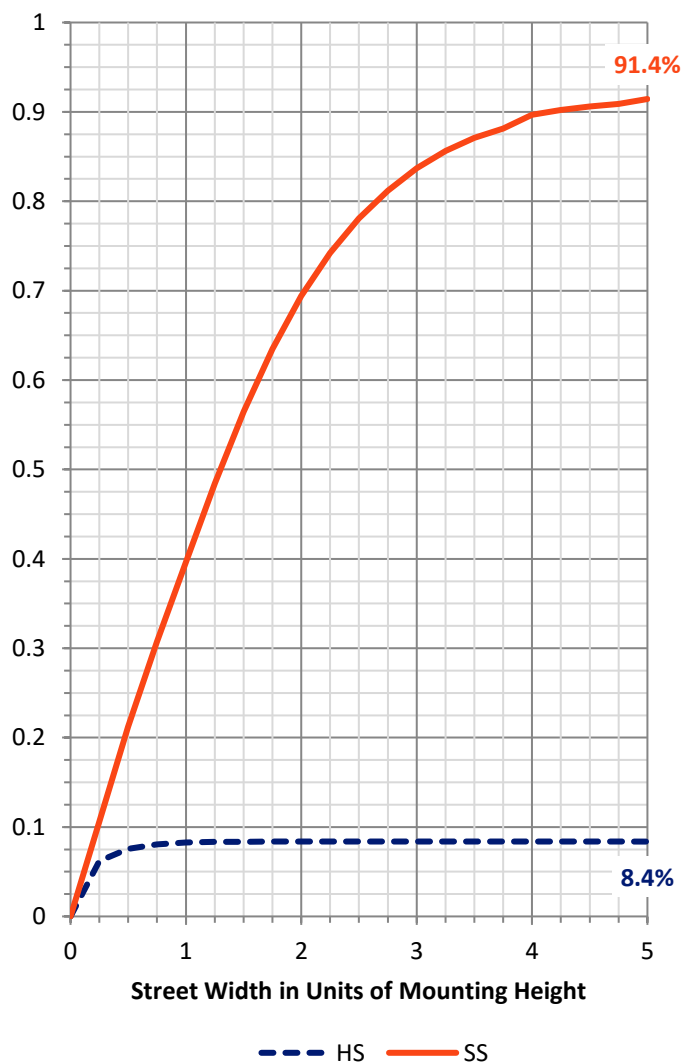
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1818.0	0.0	1818.0
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	19740.0	0.0	19740.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	21558.0	0.0	21558.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.3	1.0
10°-20°	620.1	2.9
20°-30°	1023.3	4.7
30°-40°	1485.2	6.9
40°-50°	2414.4	11.2
50°-60°	4256.2	19.7
60°-70°	6117.1	28.4
70°-80°	4898.4	22.7
80°-90°	521.9	2.4
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°	21558.0	100.0
0°-180°	21558.0	100.0

**Coefficient of Utilization**



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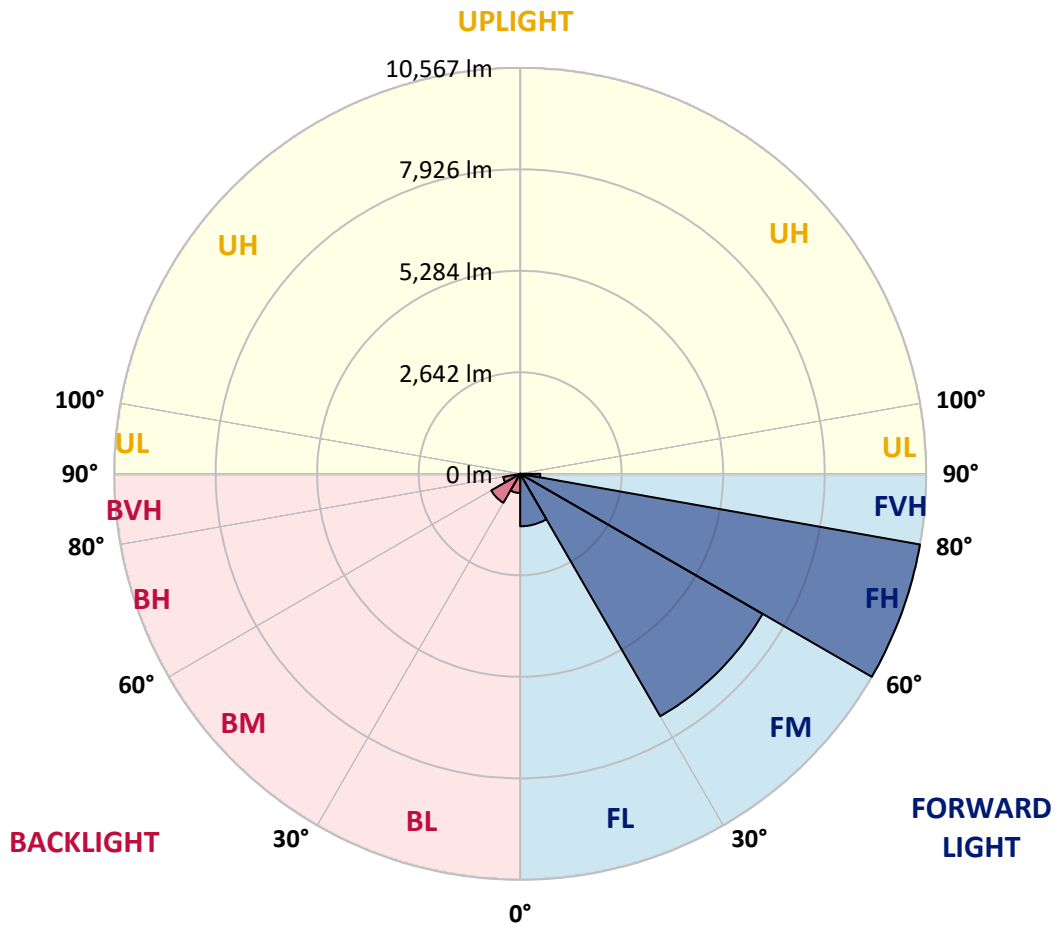
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1365.2	6.3			
FM (30°-60°)	7286.8	33.8			
FH (60°-80°)	10567.4	49.0			G4/12000
FVH (80°-90°)	520.6	2.4			G4/750
BL (0°-30°)	499.5	2.3	B1/500		
BM (30°-60°)	869.0	4.0	B1/1000		
BH (60°-80°)	448.2	2.1	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2346.5	2346.5	2346.5	2346.5	2346.5	2346.5	2346.5	2346.5	2346.5	2346.5	2346.5
2.5°	2557.3	2553.3	2541.4	2521.5	2501.6	2481.7	2477.8	2445.9	2410.1	2382.3	2358.4
5°	2784.0	2780.0	2760.1	2716.4	2672.6	2620.9	2617.0	2541.4	2473.8	2398.2	2334.6
7.5°	3018.6	3010.7	2974.9	2907.3	2831.7	2752.2	2744.2	2632.9	2533.4	2434.0	2342.5
10°	3201.6	3193.6	3141.9	3062.4	2959.0	2859.6	2847.6	2732.3	2632.9	2505.6	2382.3
12.5°	3380.6	3364.7	3297.0	3209.5	3082.3	2986.8	2974.9	2855.6	2736.3	2605.0	2453.9
15°	3547.6	3527.7	3464.1	3352.7	3217.5	3126.0	3118.1	2990.8	2867.5	2716.4	2549.3
17.5°	3662.9	3655.0	3579.4	3456.1	3324.9	3249.3	3241.4	3110.1	2986.8	2827.7	2648.8
20°	3722.6	3722.6	3651.0	3515.8	3396.5	3344.8	3332.8	3209.5	3090.2	2939.1	2752.2
22.5°	3734.5	3746.5	3690.8	3543.6	3456.1	3412.4	3404.4	3297.0	3181.7	3042.5	2867.5
25°	3758.4	3758.4	3730.5	3571.5	3507.8	3495.9	3491.9	3396.5	3293.1	3153.9	2982.8
27.5°	3786.2	3786.2	3766.3	3611.2	3587.4	3583.4	3579.4	3535.7	3452.1	3289.1	3118.1
30°	3857.8	3861.8	3845.9	3690.8	3674.9	3718.6	3726.6	3702.7	3599.3	3396.5	3257.3
32.5°	4036.8	4001.0	3957.2	3746.5	3774.3	3830.0	3834.0	3786.2	3674.9	3511.8	3424.3
35°	4486.2	4275.4	4076.6	3794.2	3806.1	3861.8	3869.7	3865.8	3798.2	3659.0	3615.2
37.5°	4903.8	4605.5	4323.1	3905.5	3865.8	3925.4	3941.3	4008.9	3957.2	3861.8	3873.7
40°	5146.4	5031.1	4832.2	4211.8	3985.1	4076.6	4092.5	4195.9	4176.0	4136.2	4211.8
42.5°	5894.1	5902.1	5687.3	4669.2	4203.8	4351.0	4370.9	4454.4	4482.2	4502.1	4685.1
45°	6761.1	6789.0	6737.3	5492.4	4617.4	4665.2	4693.0	4804.4	4907.8	5035.0	5369.1
47.5°	7803.1	7779.3	7588.4	6498.6	5337.3	5070.8	5090.7	5305.5	5484.5	5762.9	6240.1
50°	8725.8	8785.5	8423.6	7437.2	6351.5	5711.2	5691.3	5902.1	6224.2	6614.0	7214.5
52.5°	9656.5	9569.0	9079.8	8367.9	7552.6	6582.1	6522.5	6637.8	7091.2	7552.6	8169.0
55°	9903.1	9911.0	9744.0	9386.0	8554.8	7640.1	7540.6	7532.7	8097.4	8411.6	9171.3
57.5°	10388.3	10408.1	10447.9	10519.5	10125.8	8698.0	8594.6	8483.2	9032.1	9215.0	10177.5
60°	10881.4	10905.3	11147.9	11533.7	11271.2	9839.4	9728.1	9465.6	9771.8	10018.4	11235.4
62.5°	10817.8	10984.8	11688.8	12456.4	12424.6	11092.2	10953.0	10320.7	10515.5	10730.3	12205.8
65°	9767.8	9946.8	11529.7	12710.9	13581.9	12329.1	12102.4	11203.6	11215.5	11474.0	13140.4
67.5°	8829.2	9024.1	10535.4	12603.5	14345.5	13438.7	13204.1	12090.5	11903.5	12333.1	13641.6
70°	8288.3	8483.2	9744.0	12269.4	14560.3	14667.7	14464.8	13104.6	12722.8	13116.6	13080.8
72.5°	6486.7	6792.9	8733.8	11633.1	14790.9	15984.1	15825.0	14389.3	13418.8	12297.3	9958.7
75°	2585.1	2867.5	5452.6	9362.2	14500.6	17117.6	16994.3	14965.9	12420.6	8781.5	5098.7
77.5°	779.5	835.2	1515.3	4629.4	10630.9	15176.7	15137.0	12583.6	8789.5	4076.6	1392.0
80°	258.5	286.4	465.3	1276.7	4852.1	9481.5	9660.4	8017.9	3993.0	934.6	282.4
82.5°	107.4	119.3	234.7	513.0	1718.1	4084.5	4024.9	3591.3	1392.0	580.7	103.4
85°	27.8	35.8	107.4	294.3	628.4	1407.9	1479.5	1205.1	787.5	481.2	31.8
87.5°	0.0	0.0	51.7	119.3	282.4	425.6	445.4	365.9	445.4	361.9	15.9
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°	2346.5	2346.5	2346.5	2346.5	2346.5	2346.5	2346.5	2346.5	2346.5	2346.5	2346.5
2.5°	2338.6	2318.7	2282.9	2259.0	2227.2	2219.2	2203.3	2183.4	2179.5	2159.6	2163.6
5°	2298.8	2267.0	2203.3	2159.6	2107.9	2092.0	2064.1	2044.2	2028.3	2000.5	2004.5
7.5°	2290.8	2243.1	2155.6	2072.1	1988.6	1928.9	1845.4	1777.8	1722.1	1662.4	1674.4
10°	2318.7	2259.0	2135.7	2020.4	1869.3	1678.3	1459.6	1316.4	1244.8	1173.3	1181.2
12.5°	2374.3	2302.8	2143.7	1968.7	1662.4	1336.3	1034.1	839.2	787.5	755.7	759.6
15°	2457.9	2370.4	2167.5	1869.3	1384.0	966.4	688.0	604.5	624.4	636.3	636.3
17.5°	2545.4	2445.9	2187.4	1690.3	1069.8	676.1	560.8	552.8	580.7	608.5	608.5
20°	2652.7	2525.5	2191.4	1463.6	771.6	548.8	529.0	529.0	548.8	580.7	580.7
22.5°	2756.2	2613.0	2155.6	1205.1	588.6	509.1	509.1	509.1	521.0	552.8	556.8
25°	2879.4	2720.4	2080.0	930.6	505.1	485.2	485.2	489.2	497.1	525.0	529.0
27.5°	3010.7	2831.7	1952.8	680.1	461.3	457.4	461.3	465.3	469.3	497.1	505.1
30°	3161.8	2955.0	1789.7	509.1	421.6	421.6	433.5	441.5	441.5	465.3	473.3
32.5°	3336.8	3118.1	1594.8	421.6	381.8	377.8	397.7	409.6	409.6	429.5	437.5
35°	3555.6	3285.1	1360.2	373.9	350.0	342.0	350.0	369.9	377.8	393.7	397.7
37.5°	3845.9	3484.0	1109.6	346.0	326.1	310.2	310.2	314.2	330.1	346.0	350.0
40°	4215.8	3702.7	863.0	326.1	302.3	286.4	274.4	270.4	266.5	278.4	286.4
42.5°	4681.1	3949.3	644.3	306.2	282.4	258.5	242.6	226.7	206.8	202.8	206.8
45°	5277.7	4251.6	477.3	290.3	270.4	234.7	206.8	179.0	143.2	131.2	135.2
47.5°	5981.6	4565.7	373.9	274.4	262.5	206.8	171.0	123.3	87.5	79.5	83.5
50°	6729.3	4868.0	318.2	254.5	246.6	179.0	123.3	75.6	51.7	51.7	55.7
52.5°	7365.6	5039.0	290.3	238.6	222.7	147.2	79.5	43.7	31.8	31.8	35.8
55°	7982.1	5130.5	270.4	222.7	190.9	103.4	43.7	27.8	19.9	19.9	19.9
57.5°	8618.4	5170.3	246.6	202.8	151.1	63.6	23.9	15.9	11.9	11.9	11.9
60°	9183.2	5094.7	210.8	167.0	99.4	31.8	11.9	11.9	8.0	4.0	4.0
62.5°	9656.5	4951.5	147.2	119.3	59.7	15.9	8.0	4.0	0.0	0.0	0.0
65°	9946.8	4720.9	95.5	79.5	35.8	11.9	4.0	0.0	0.0	0.0	0.0
67.5°	9863.3	4287.3	59.7	51.7	15.9	8.0	4.0	0.0	0.0	0.0	0.0
70°	8900.8	3515.8	43.7	31.8	11.9	4.0	0.0	0.0	0.0	0.0	0.0
72.5°	6415.1	2378.3	31.8	19.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	3086.3	847.1	19.9	15.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	755.7	186.9	11.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	167.0	35.8	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.7	15.9	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.9	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.9	4.0	0.0	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)