

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: P400130

Luminaire Tested: **ARCH-L-PA3-240-727-U-T2U-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400130  
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-PA3-240-727-U-T2U-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1030mA 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: 18955 lumens  
Efficiency: N/A  
Efficacy: 78.3 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

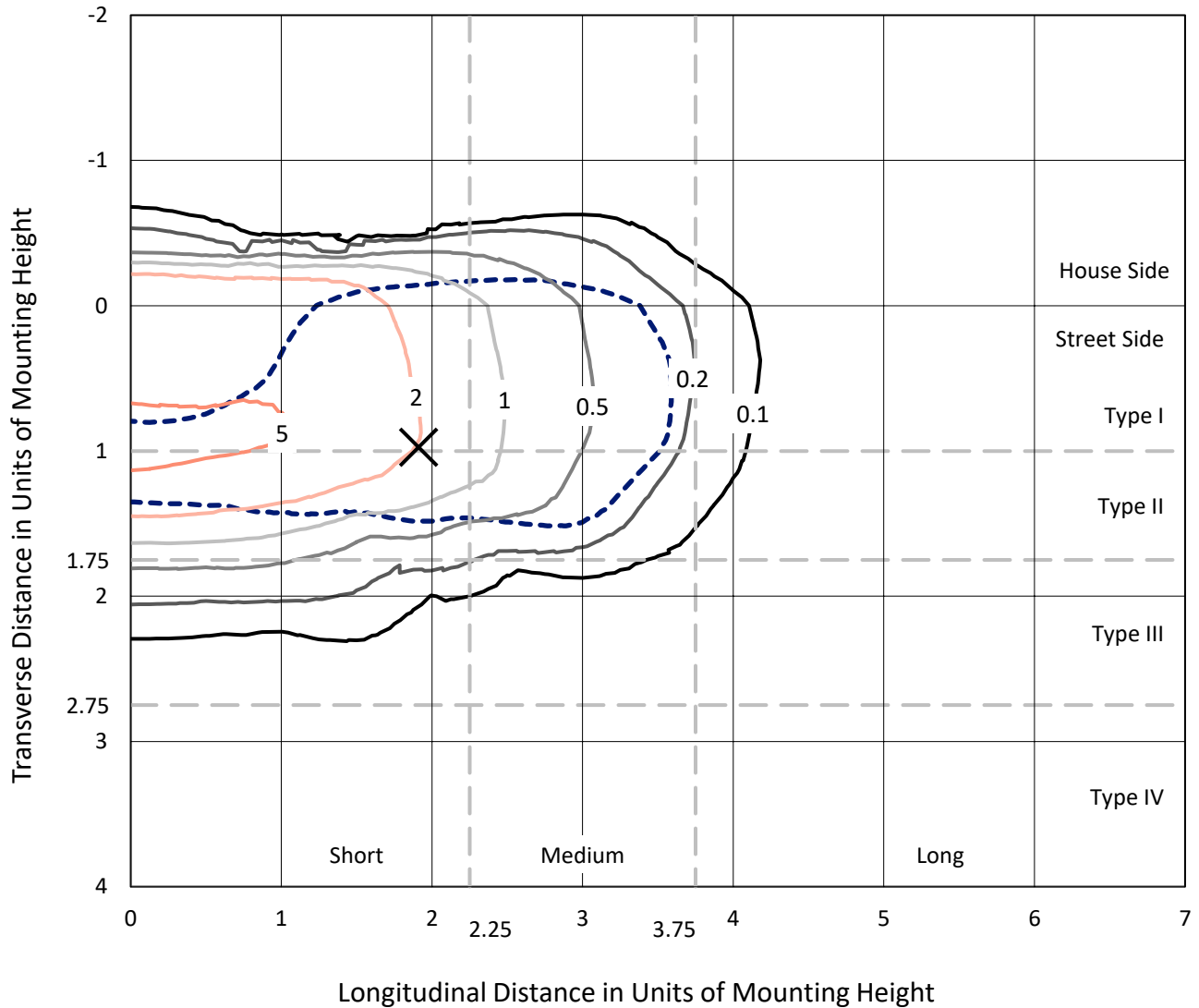
Input Watts (W): 242  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

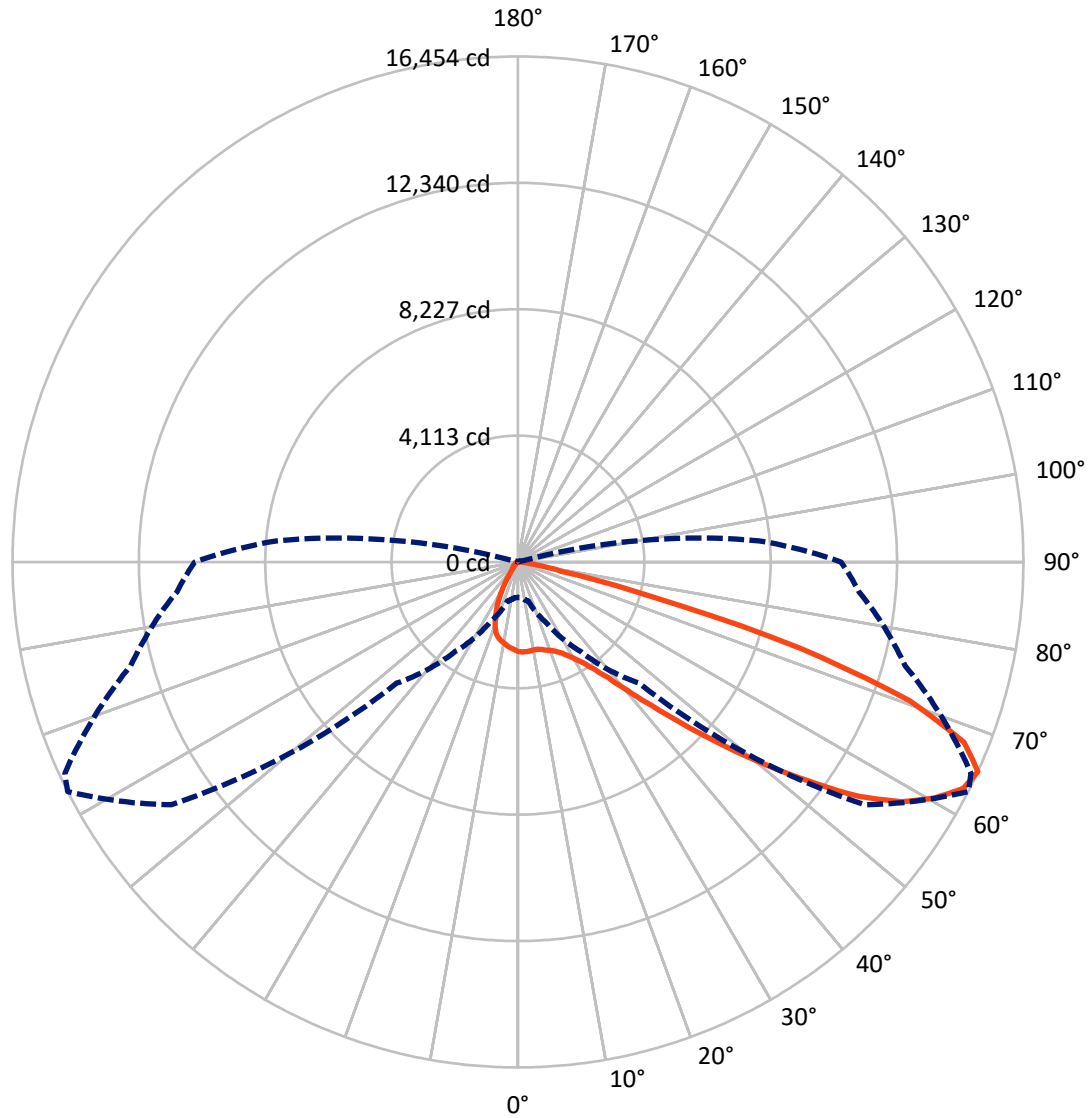
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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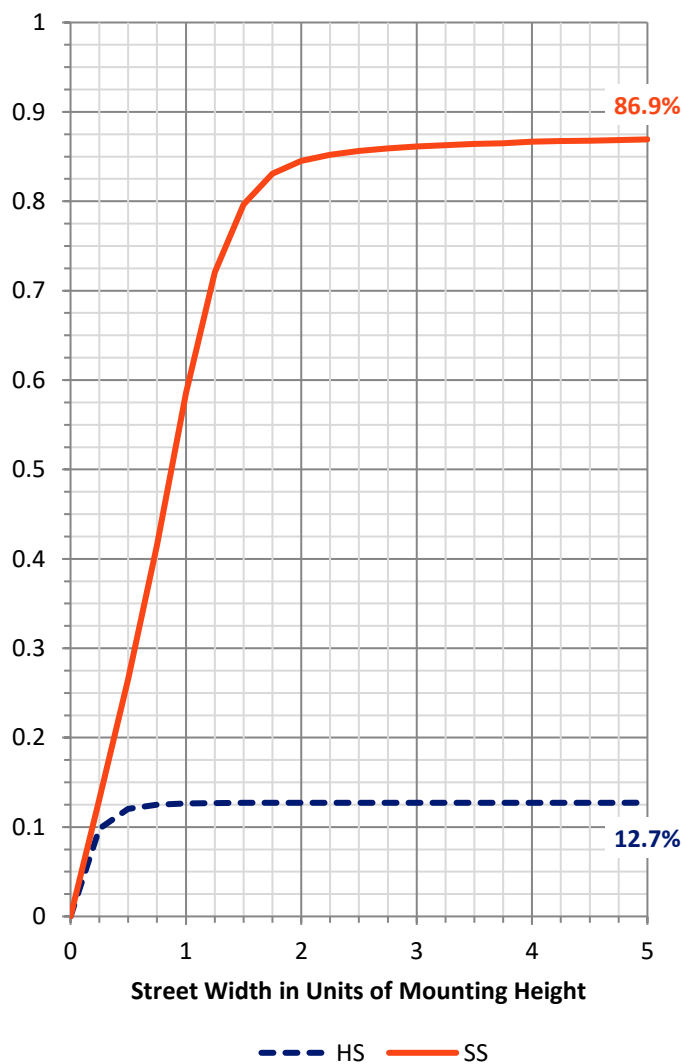
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2439.5	0.0	2439.5
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	16515.5	0.0	16515.5
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	18955.0	0.0	18955.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.5	1.4
10°-20°	657.3	3.5
20°-30°	974.2	5.1
30°-40°	1808.9	9.5
40°-50°	3832.1	20.2
50°-60°	5298.7	28.0
60°-70°	4241.8	22.4
70°-80°	1762.4	9.3
80°-90°	113.2	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°	18955.0	100.0
0°-180°	18955.0	100.0

**Coefficient of Utilization**



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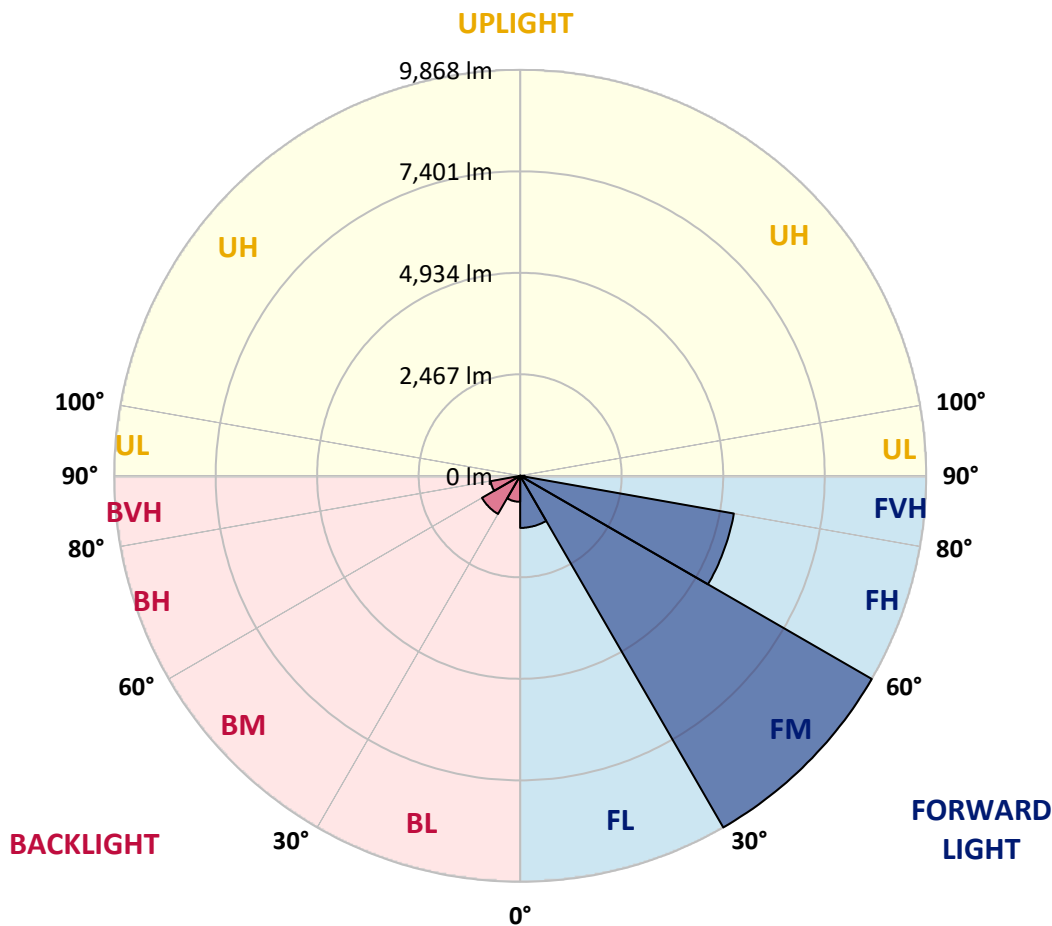
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.7	6.7			
FM (30°-60°)	9868.1	52.1			
FH (60°-80°)	5273.7	27.8			G3/7500
FVH (80°-90°)	108.0	0.6			G2/225
BL (0°-30°)	632.2	3.3	B2/1000		
BM (30°-60°)	1071.6	5.7	B2/2500		
BH (60°-80°)	730.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.2	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°	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0
2.5°	2970.1	2963.0	2955.8	2952.2	2952.2	2948.7	2934.3	2930.8	2923.6	2916.4	2909.3
5°	2941.5	2930.8	2927.2	2930.8	2934.3	2941.5	2934.3	2934.3	2927.2	2920.0	2905.7
7.5°	2869.9	2862.8	2866.4	2877.1	2880.7	2905.7	2909.3	2920.0	2920.0	2912.9	2902.1
10°	2784.0	2780.5	2780.5	2798.4	2816.3	2852.0	2877.1	2905.7	2909.3	2909.3	2891.4
12.5°	2719.6	2716.1	2726.8	2748.3	2784.0	2830.6	2873.5	2916.4	2923.6	2927.2	2898.6
15°	2680.3	2680.3	2694.6	2737.5	2787.6	2852.0	2902.1	2959.4	2966.5	2963.0	2923.6
17.5°	2644.5	2648.1	2676.7	2748.3	2805.5	2891.4	2952.2	3016.6	3020.2	3016.6	2952.2
20°	2630.2	2637.3	2680.3	2773.3	2837.7	2934.3	3013.1	3077.5	3081.1	3066.7	2980.9
22.5°	2669.5	2673.1	2726.8	2827.0	2887.8	2995.2	3095.4	3156.2	3159.8	3138.3	3023.8
25°	2805.5	2805.5	2852.0	2937.9	2991.6	3099.0	3206.3	3277.9	3277.9	3252.8	3120.4
27.5°	3124.0	3095.4	3084.6	3109.7	3127.6	3242.1	3356.6	3446.1	3442.5	3406.7	3245.7
30°	3739.5	3667.9	3553.4	3424.6	3360.2	3438.9	3546.3	3660.8	3657.2	3599.9	3399.5
32.5°	4773.7	4669.9	4397.9	4058.0	3782.4	3693.0	3793.2	3918.4	3922.0	3854.0	3646.5
35°	6223.0	6058.3	5571.7	5099.3	4469.5	4129.5	4158.2	4294.2	4337.1	4301.3	4061.6
37.5°	7618.6	7468.3	7003.1	6348.2	5492.9	4798.7	4677.1	4795.1	4845.2	4845.2	4591.2
40°	9024.9	8849.5	8438.0	7779.6	6877.8	5843.6	5407.1	5503.7	5557.4	5568.1	5235.3
42.5°	10152.1	10037.6	9722.7	9211.0	8366.5	7675.8	6459.1	6405.5	6455.6	6416.2	5983.2
45°	10932.2	10842.8	10624.5	10431.2	10019.7	9672.6	7865.5	7504.0	7536.2	7400.3	6824.1
47.5°	11093.2	10993.0	10946.5	11214.9	11508.3	11594.2	9593.9	8810.2	8778.0	8477.4	7697.3
50°	10391.9	10402.6	10574.4	11340.2	12564.0	13336.9	11597.8	10284.5	10166.4	9497.2	8509.6
52.5°	8878.2	9049.9	9482.9	10724.7	12886.1	14603.7	13601.7	11848.3	11665.8	10488.5	9117.9
55°	6945.8	7167.7	7879.8	9307.6	12213.3	15169.1	15290.8	13472.9	13057.8	11232.8	9590.3
57.5°	5163.7	5231.7	6061.9	7364.5	10620.9	14614.5	16156.8	14725.4	14192.2	11826.8	10059.1
60°	3217.0	3260.0	4136.7	5607.5	8044.4	12564.0	16156.8	15587.8	15079.7	12360.0	10488.5
62.5°	2000.4	2014.7	2343.9	3843.3	5467.9	9318.3	15487.6	16257.0	15849.0	12742.9	10857.1
65°	1152.3	1166.6	1320.5	2172.1	3557.0	5578.8	13777.1	16453.8	16271.3	13047.1	11143.3
67.5°	840.9	848.1	908.9	1220.3	2326.0	2866.4	10348.9	15662.9	15892.0	13197.4	11136.2
70°	730.0	740.7	819.5	951.9	1678.3	1760.6	5267.5	13526.6	14167.1	12982.7	10803.4
72.5°	561.8	576.1	694.2	894.6	1231.0	1266.8	1907.3	9626.1	10595.8	11640.7	9890.9
75°	386.5	400.8	518.9	737.2	1016.3	948.3	1048.5	4430.1	5589.6	7808.2	7529.1
77.5°	246.9	250.5	325.6	536.8	876.7	672.8	719.3	1445.7	2029.0	3531.9	3553.4
80°	164.6	168.2	200.4	347.1	601.2	622.7	443.7	669.2	733.6	1030.6	715.7
82.5°	100.2	100.2	136.0	218.3	365.0	515.3	289.9	350.7	375.7	397.2	186.1
85°	39.4	39.4	82.3	143.1	229.0	239.8	182.5	204.0	214.7	232.6	85.9
87.5°	10.7	10.7	46.5	78.7	100.2	110.9	110.9	100.2	107.4	132.4	42.9
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°	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0	2920.0
2.5°	2905.7	2895.0	2880.7	2866.4	2852.0	2841.3	2830.6	2830.6	2823.4	2812.7	2805.5
5°	2898.6	2880.7	2848.5	2823.4	2784.0	2755.4	2733.9	2716.1	2705.3	2680.3	2676.7
7.5°	2887.8	2866.4	2819.8	2769.7	2705.3	2655.2	2605.1	2569.3	2533.6	2504.9	2497.8
10°	2869.9	2844.9	2776.9	2705.3	2615.9	2522.8	2404.7	2268.7	2143.5	2071.9	2050.5
12.5°	2869.9	2837.7	2748.3	2651.6	2522.8	2293.8	1993.2	1692.6	1460.0	1356.2	1327.6
15°	2887.8	2844.9	2726.8	2594.4	2354.6	1889.4	1402.8	1005.5	751.5	672.8	654.9
17.5°	2905.7	2844.9	2694.6	2515.7	2046.9	1370.6	798.0	529.6	447.3	429.4	429.4
20°	2912.9	2837.7	2651.6	2368.9	1635.4	851.7	475.9	397.2	365.0	354.3	354.3
22.5°	2941.5	2841.3	2619.4	2157.8	1188.1	501.0	375.7	332.8	300.6	289.9	289.9
25°	3013.1	2884.2	2626.6	1889.4	762.2	379.3	318.5	275.5	243.3	229.0	229.0
27.5°	3127.6	2980.9	2666.0	1578.1	479.5	325.6	268.4	221.9	196.8	182.5	182.5
30°	3256.4	3088.2	2683.8	1220.3	357.8	275.5	218.3	175.3	157.5	146.7	143.1
32.5°	3481.8	3274.3	2669.5	837.4	293.4	232.6	175.3	139.6	125.2	121.7	121.7
35°	3843.3	3599.9	2640.9	526.0	243.3	186.1	139.6	114.5	103.8	100.2	96.6
37.5°	4333.5	4075.9	2555.0	347.1	200.4	146.7	114.5	96.6	85.9	82.3	82.3
40°	4931.1	4619.8	2390.4	264.8	171.8	118.1	96.6	82.3	75.1	71.6	71.6
42.5°	5614.6	5224.6	2129.2	229.0	143.1	100.2	82.3	68.0	64.4	60.8	60.8
45°	6362.5	5857.9	1767.8	204.0	121.7	82.3	68.0	60.8	53.7	53.7	50.1
47.5°	7156.9	6494.9	1359.8	178.9	103.8	71.6	60.8	50.1	46.5	42.9	42.9
50°	7922.7	7063.9	955.5	153.9	85.9	60.8	50.1	42.9	39.4	35.8	35.8
52.5°	8463.1	7407.4	676.3	132.4	71.6	53.7	39.4	32.2	28.6	28.6	28.6
55°	8896.1	7622.1	472.4	110.9	60.8	46.5	32.2	25.0	25.0	21.5	21.5
57.5°	9304.0	7761.7	347.1	93.0	50.1	35.8	25.0	17.9	17.9	14.3	14.3
60°	9726.3	7836.8	264.8	75.1	42.9	28.6	17.9	14.3	10.7	10.7	10.7
62.5°	10152.1	7883.4	204.0	60.8	35.8	21.5	14.3	10.7	7.2	3.6	3.6
65°	10524.3	7897.7	157.5	46.5	28.6	14.3	10.7	3.6	0.0	0.0	0.0
67.5°	10635.2	7733.1	121.7	35.8	21.5	10.7	7.2	0.0	0.0	0.0	0.0
70°	10334.6	7296.5	93.0	28.6	17.9	7.2	3.6	0.0	0.0	0.0	0.0
72.5°	9171.6	6119.2	71.6	17.9	14.3	7.2	3.6	0.0	0.0	0.0	0.0
75°	6562.9	3263.6	50.1	14.3	10.7	3.6	0.0	0.0	0.0	0.0	0.0
77.5°	3020.2	1263.2	35.8	10.7	7.2	3.6	0.0	0.0	0.0	0.0	0.0
80°	590.4	314.9	14.3	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	136.0	53.7	7.2	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.5	17.9	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.9	7.2	3.6	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)