

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: P399653

Luminaire Tested: **ARCH-L-PA3-170-750-U-T2U-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399653  
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-PA3-170-750-U-T2U-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 750mA 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: 18047 lumens  
Efficiency: N/A  
Efficacy: 104.3 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

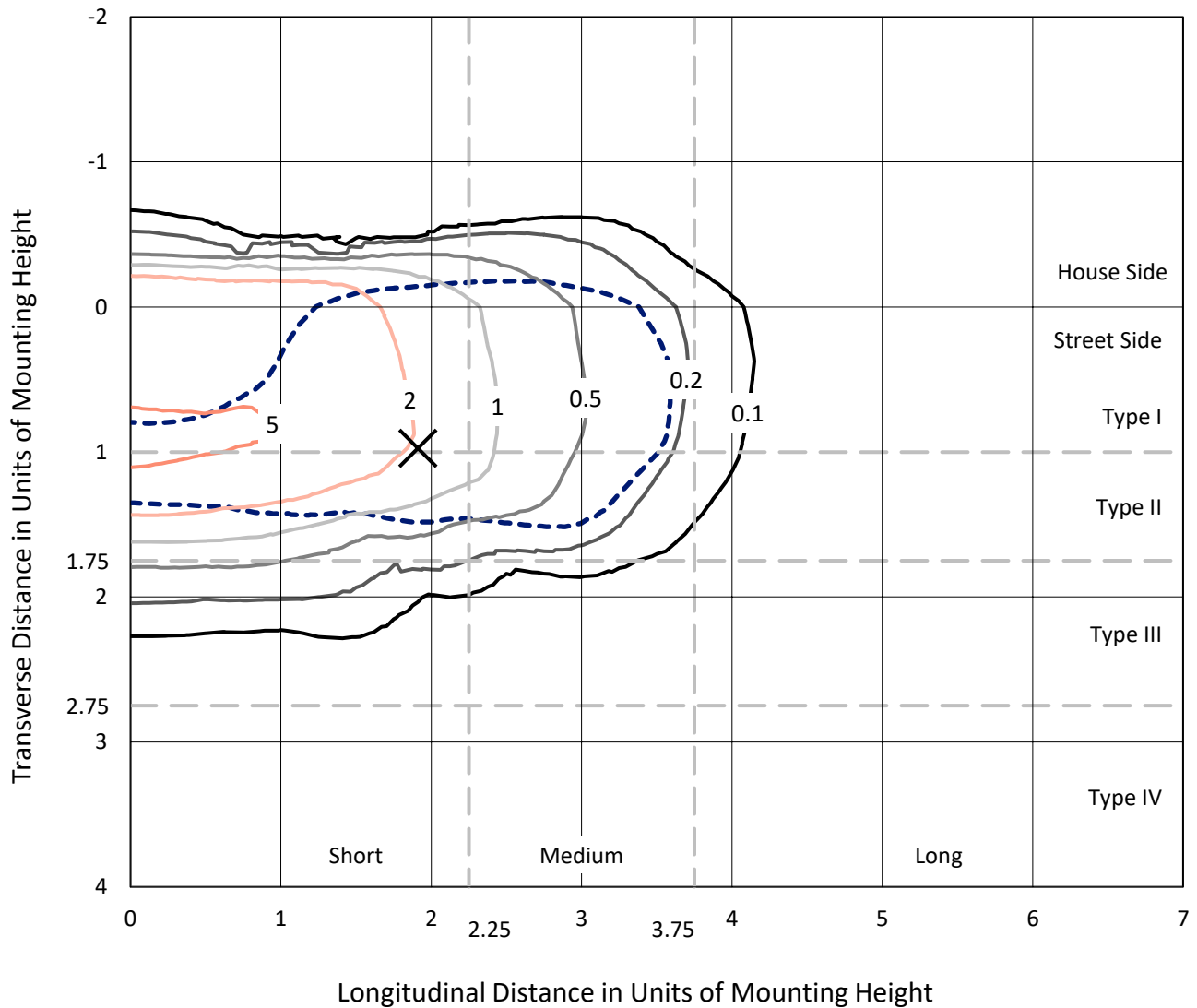
Input Watts (W): 173  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

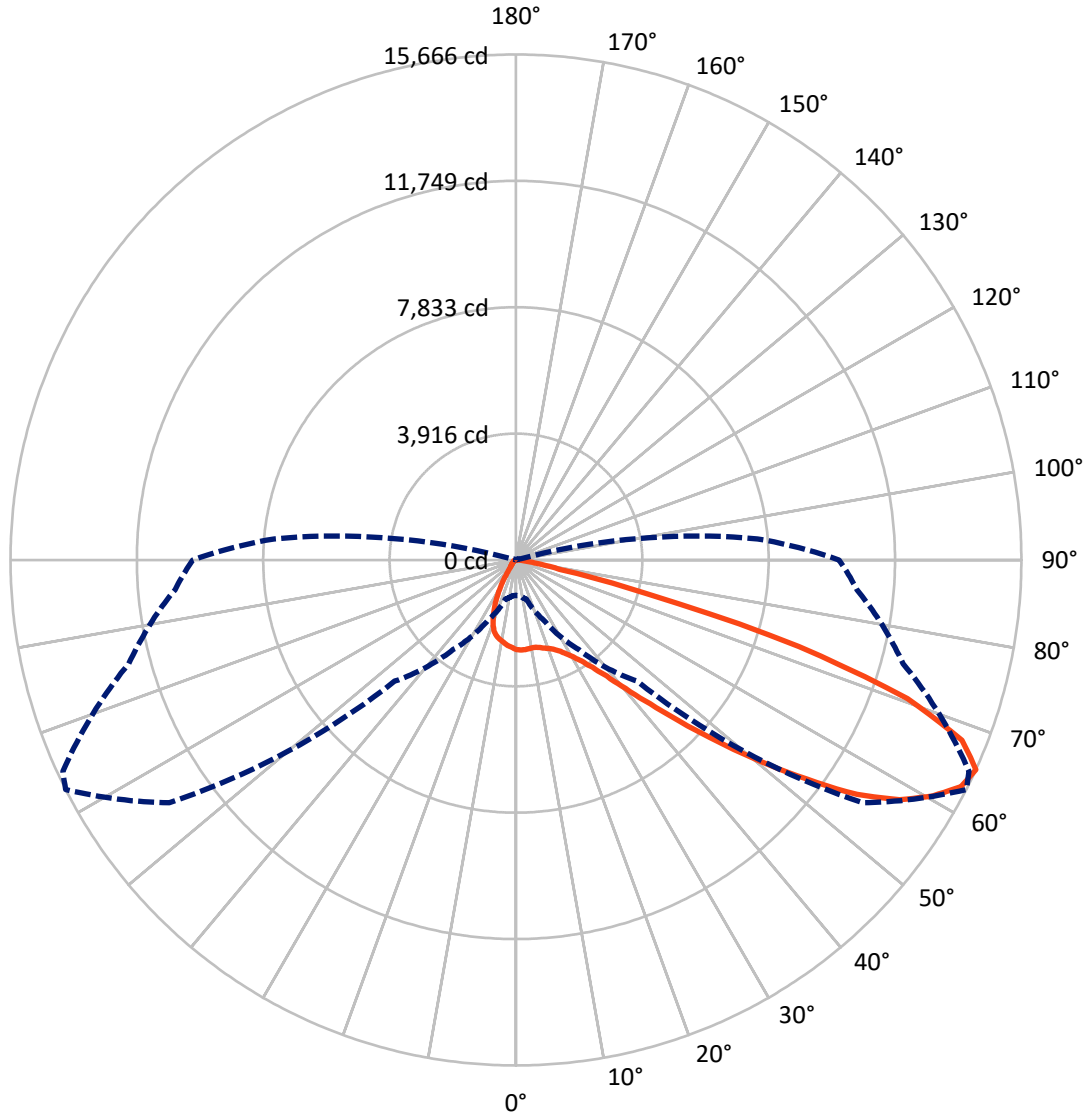
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2322.6	0.0	2322.6
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	15724.4	0.0	15724.4
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	18047.0	0.0	18047.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.7	1.4
10°-20°	625.8	3.5
20°-30°	927.6	5.1
30°-40°	1722.2	9.5
40°-50°	3648.5	20.2
50°-60°	5044.9	28.0
60°-70°	4038.6	22.4
70°-80°	1677.9	9.3
80°-90°	107.7	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°	18047.0	100.0
0°-180°	18047.0	100.0

**Coefficient of Utilization**



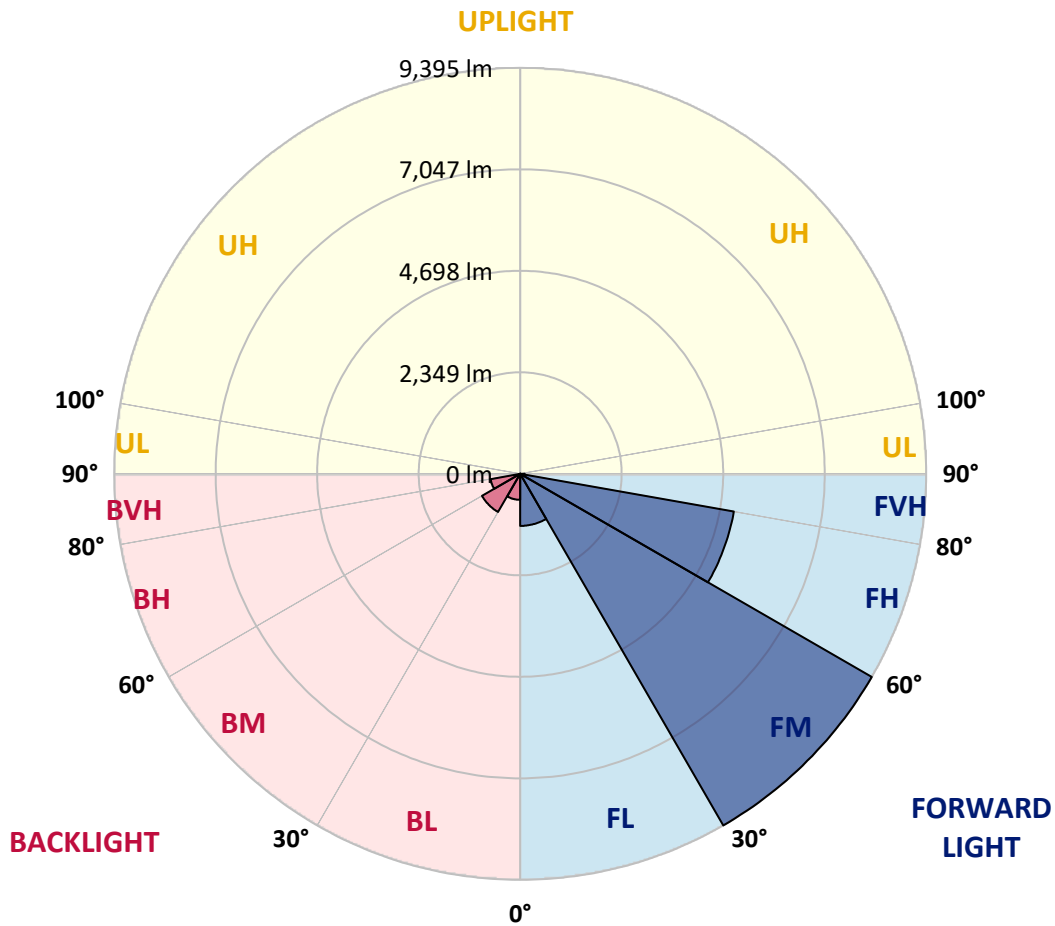
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.1	6.7			
FM (30°-60°)	9395.3	52.1			
FH (60°-80°)	5021.1	27.8			G3/7500
FVH (80°-90°)	102.8	0.6			G2/225
BL (0°-30°)	601.9	3.3	B2/1000		
BM (30°-60°)	1020.3	5.7	B2/2500		
BH (60°-80°)	695.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.9	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°	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2
2.5°	2827.8	2821.0	2814.2	2810.8	2810.8	2807.4	2793.8	2790.4	2783.6	2776.7	2769.9
5°	2800.6	2790.4	2787.0	2790.4	2793.8	2800.6	2793.8	2793.8	2787.0	2780.2	2766.5
7.5°	2732.5	2725.6	2729.0	2739.3	2742.7	2766.5	2769.9	2780.2	2780.2	2773.3	2763.1
10°	2650.7	2647.3	2647.3	2664.3	2681.3	2715.4	2739.3	2766.5	2769.9	2769.9	2752.9
12.5°	2589.4	2585.9	2596.2	2616.6	2650.7	2695.0	2735.9	2776.7	2783.6	2787.0	2759.7
15°	2551.9	2551.9	2565.5	2606.4	2654.1	2715.4	2763.1	2817.6	2824.4	2821.0	2783.6
17.5°	2517.8	2521.2	2548.5	2616.6	2671.1	2752.9	2810.8	2872.1	2875.5	2872.1	2810.8
20°	2504.2	2511.0	2551.9	2640.5	2701.8	2793.8	2868.7	2930.1	2933.5	2919.8	2838.1
22.5°	2541.7	2545.1	2596.2	2691.6	2749.5	2851.7	2947.1	3005.0	3008.4	2988.0	2879.0
25°	2671.1	2671.1	2715.4	2797.2	2848.3	2950.5	3052.7	3120.9	3120.9	3097.0	2970.9
27.5°	2974.4	2947.1	2936.9	2960.7	2977.8	3086.8	3195.8	3281.0	3277.6	3243.5	3090.2
30°	3560.4	3492.2	3383.2	3260.5	3199.2	3274.2	3376.4	3485.4	3482.0	3427.5	3236.7
32.5°	4545.0	4446.2	4187.3	3863.6	3601.2	3516.1	3611.5	3730.7	3734.1	3669.4	3471.8
35°	5924.9	5768.1	5304.8	4855.0	4255.4	3931.7	3959.0	4088.5	4129.3	4095.3	3867.0
37.5°	7253.6	7110.5	6667.6	6044.1	5229.8	4568.8	4453.0	4565.4	4613.1	4613.1	4371.2
40°	8592.6	8425.6	8033.8	7406.9	6548.3	5563.7	5148.0	5240.0	5291.1	5301.4	4984.5
42.5°	9665.8	9556.8	9256.9	8769.7	7965.7	7308.1	6149.7	6098.6	6146.3	6108.8	5696.6
45°	10408.5	10323.4	10115.5	9931.5	9539.7	9209.2	7488.7	7144.6	7175.2	7045.8	6497.2
47.5°	10561.8	10466.4	10422.2	10677.7	10957.1	11038.8	9134.3	8388.1	8357.5	8071.3	7328.6
50°	9894.1	9904.3	10067.8	10796.9	11962.1	12698.1	11042.2	9791.9	9679.4	9042.3	8102.0
52.5°	8452.9	8616.4	9028.7	10210.9	12268.8	13904.2	12950.2	11280.7	11107.0	9986.1	8681.2
55°	6613.1	6824.3	7502.3	8861.7	11628.3	14442.5	14558.3	12827.5	12432.3	10694.7	9130.9
57.5°	4916.4	4981.1	5771.5	7011.7	10112.1	13914.4	15382.8	14020.0	13512.3	11260.3	9577.2
60°	3062.9	3103.8	3938.5	5338.8	7659.0	11962.1	15382.8	14841.1	14357.3	11767.9	9986.1
62.5°	1904.5	1918.2	2231.6	3659.2	5206.0	8871.9	14745.7	15478.2	15089.8	12132.5	10337.0
65°	1097.1	1110.7	1257.2	2068.1	3386.6	5311.6	13117.1	15665.6	15491.8	12422.1	10609.5
67.5°	800.7	807.5	865.4	1161.8	2214.6	2729.0	9853.2	14912.6	15130.7	12565.2	10602.7
70°	695.0	705.3	780.2	906.3	1597.9	1676.3	5015.2	12878.6	13488.5	12360.8	10285.9
72.5°	534.9	548.5	661.0	851.8	1172.0	1206.1	1816.0	9165.0	10088.3	11083.1	9417.1
75°	368.0	381.6	494.0	701.9	967.6	902.9	998.3	4217.9	5321.8	7434.2	7168.4
77.5°	235.1	238.5	310.0	511.1	834.7	640.5	684.8	1376.4	1931.8	3362.8	3383.2
80°	156.7	160.1	190.8	330.5	572.4	592.8	422.5	637.1	698.4	981.2	681.4
82.5°	95.4	95.4	129.5	207.8	347.5	490.6	276.0	333.9	357.7	378.2	177.2
85°	37.5	37.5	78.4	136.3	218.1	228.3	173.8	194.2	204.4	221.5	81.8
87.5°	10.2	10.2	44.3	75.0	95.4	105.6	105.6	95.4	102.2	126.1	40.9
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°	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2	2780.2
2.5°	2766.5	2756.3	2742.7	2729.0	2715.4	2705.2	2695.0	2695.0	2688.2	2677.9	2671.1
5°	2759.7	2742.7	2712.0	2688.2	2650.7	2623.4	2603.0	2585.9	2575.7	2551.9	2548.5
7.5°	2749.5	2729.0	2684.8	2637.1	2575.7	2528.0	2480.3	2446.3	2412.2	2384.9	2378.1
10°	2732.5	2708.6	2643.9	2575.7	2490.6	2402.0	2289.5	2160.1	2040.8	1972.7	1952.2
12.5°	2732.5	2701.8	2616.6	2524.6	2402.0	2183.9	1897.7	1611.5	1390.1	1291.3	1264.0
15°	2749.5	2708.6	2596.2	2470.1	2241.8	1798.9	1335.6	957.4	715.5	640.5	623.5
17.5°	2766.5	2708.6	2565.5	2395.2	1948.8	1304.9	759.8	504.2	425.9	408.8	408.8
20°	2773.3	2701.8	2524.6	2255.5	1557.0	810.9	453.1	378.2	347.5	337.3	337.3
22.5°	2800.6	2705.2	2494.0	2054.4	1131.1	477.0	357.7	316.9	286.2	276.0	276.0
25°	2868.7	2746.1	2500.8	1798.9	725.7	361.1	303.2	262.3	231.7	218.1	218.1
27.5°	2977.8	2838.1	2538.2	1502.5	456.5	310.0	255.5	211.2	187.4	173.8	173.8
30°	3100.4	2940.3	2555.3	1161.8	340.7	262.3	207.8	166.9	149.9	139.7	136.3
32.5°	3315.1	3117.4	2541.7	797.2	279.4	221.5	166.9	132.9	119.2	115.8	115.8
35°	3659.2	3427.5	2514.4	500.8	231.7	177.2	132.9	109.0	98.8	95.4	92.0
37.5°	4125.9	3880.6	2432.6	330.5	190.8	139.7	109.0	92.0	81.8	78.4	78.4
40°	4694.9	4398.5	2275.9	252.1	163.5	112.4	92.0	78.4	71.5	68.1	68.1
42.5°	5345.7	4974.3	2027.2	218.1	136.3	95.4	78.4	64.7	61.3	57.9	57.9
45°	6057.7	5577.3	1683.1	194.2	115.8	78.4	64.7	57.9	51.1	51.1	47.7
47.5°	6814.1	6183.8	1294.7	170.4	98.8	68.1	57.9	47.7	44.3	40.9	40.9
50°	7543.2	6725.5	909.7	146.5	81.8	57.9	47.7	40.9	37.5	34.1	34.1
52.5°	8057.7	7052.6	643.9	126.1	68.1	51.1	37.5	30.7	27.3	27.3	27.3
55°	8469.9	7257.0	449.7	105.6	57.9	44.3	30.7	23.8	23.8	20.4	20.4
57.5°	8858.3	7389.9	330.5	88.6	47.7	34.1	23.8	17.0	17.0	13.6	13.6
60°	9260.4	7461.4	252.1	71.5	40.9	27.3	17.0	13.6	10.2	10.2	10.2
62.5°	9665.8	7505.7	194.2	57.9	34.1	20.4	13.6	10.2	6.8	3.4	3.4
65°	10020.1	7519.4	149.9	44.3	27.3	13.6	10.2	3.4	0.0	0.0	0.0
67.5°	10125.7	7362.6	115.8	34.1	20.4	10.2	6.8	0.0	0.0	0.0	0.0
70°	9839.6	6947.0	88.6	27.3	17.0	6.8	3.4	0.0	0.0	0.0	0.0
72.5°	8732.3	5826.0	68.1	17.0	13.6	6.8	3.4	0.0	0.0	0.0	0.0
75°	6248.5	3107.2	47.7	13.6	10.2	3.4	0.0	0.0	0.0	0.0	0.0
77.5°	2875.5	1202.7	34.1	10.2	6.8	3.4	0.0	0.0	0.0	0.0	0.0
80°	562.2	299.8	13.6	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	129.5	51.1	6.8	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.3	17.0	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.0	6.8	3.4	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)