

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: P399797

Luminaire Tested: **ARCH-L-PA3-190-750-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399797
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-PA3-190-750-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 810mA 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: 19124 lumens
Efficiency: N/A
Efficacy: 101.2 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

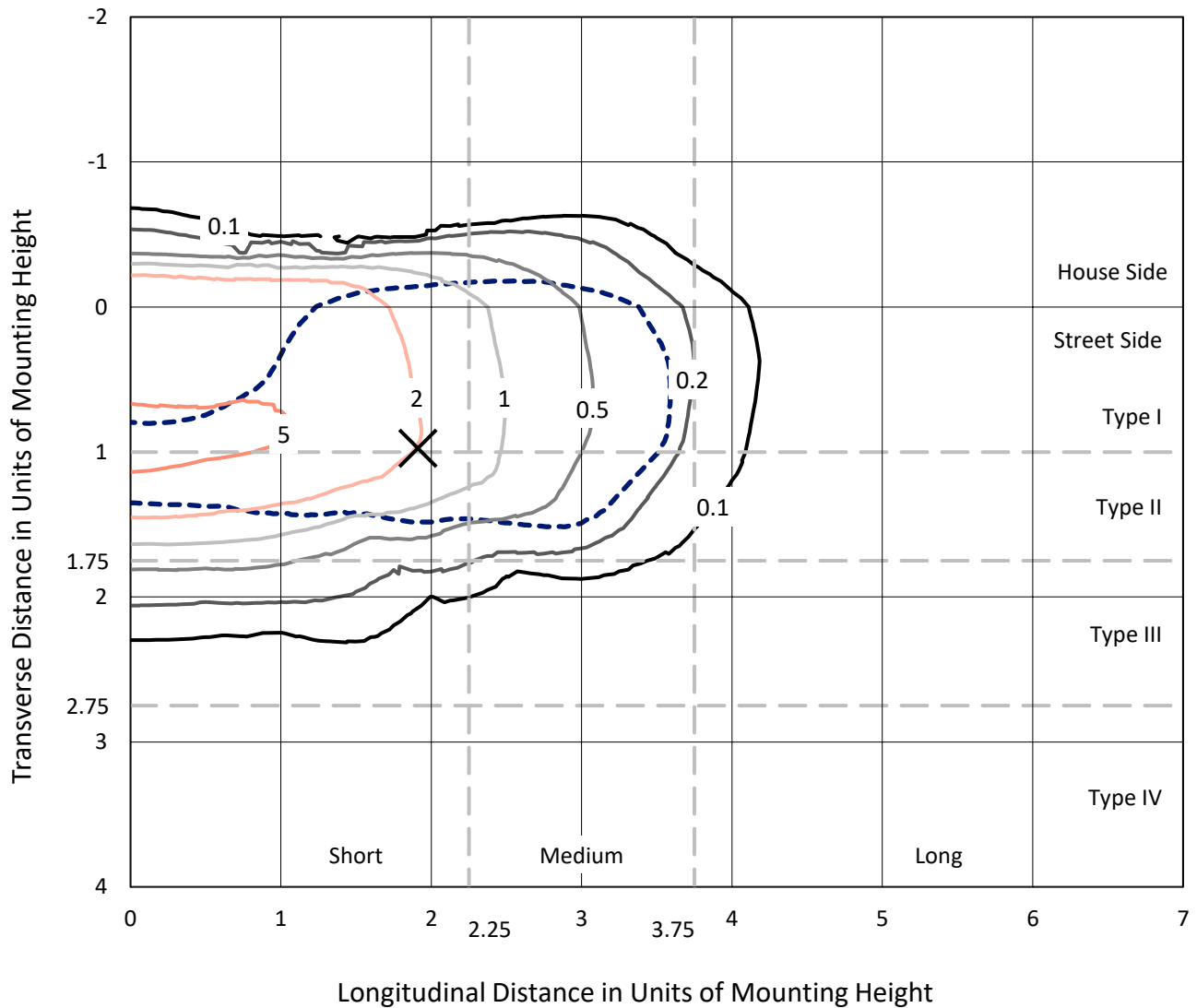
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

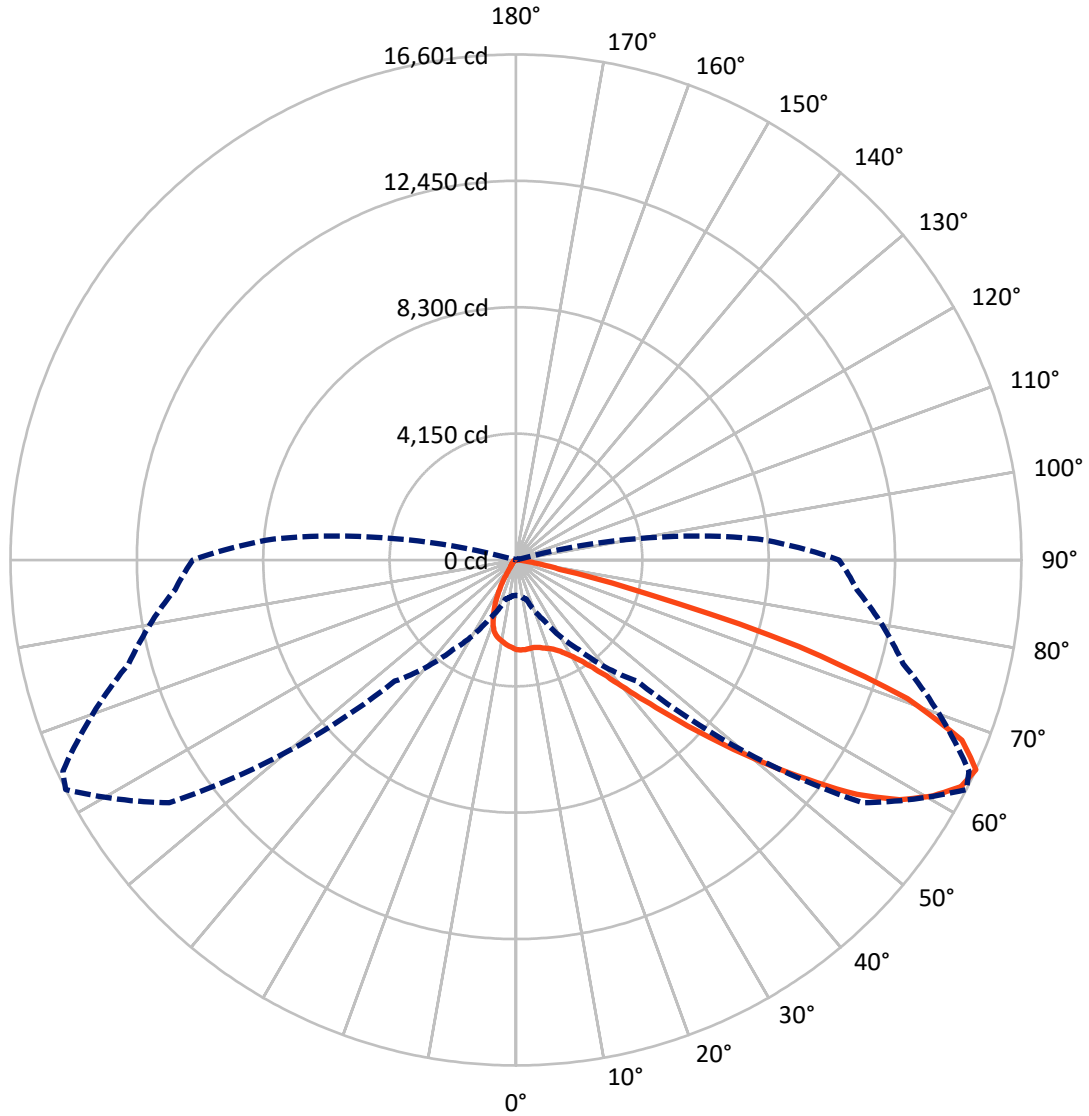
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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
House Side	Lumens	2461.2	0.0	2461.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	16662.8	0.0	16662.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	19124.0	0.0	19124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.8	1.4
10°-20°	663.1	3.5
20°-30°	982.9	5.1
30°-40°	1825.0	9.5
40°-50°	3866.2	20.2
50°-60°	5346.0	28.0
60°-70°	4279.6	22.4
70°-80°	1778.1	9.3
80°-90°	114.2	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°	19124.0	100.0
0°-180°	19124.0	100.0

Coefficient of Utilization



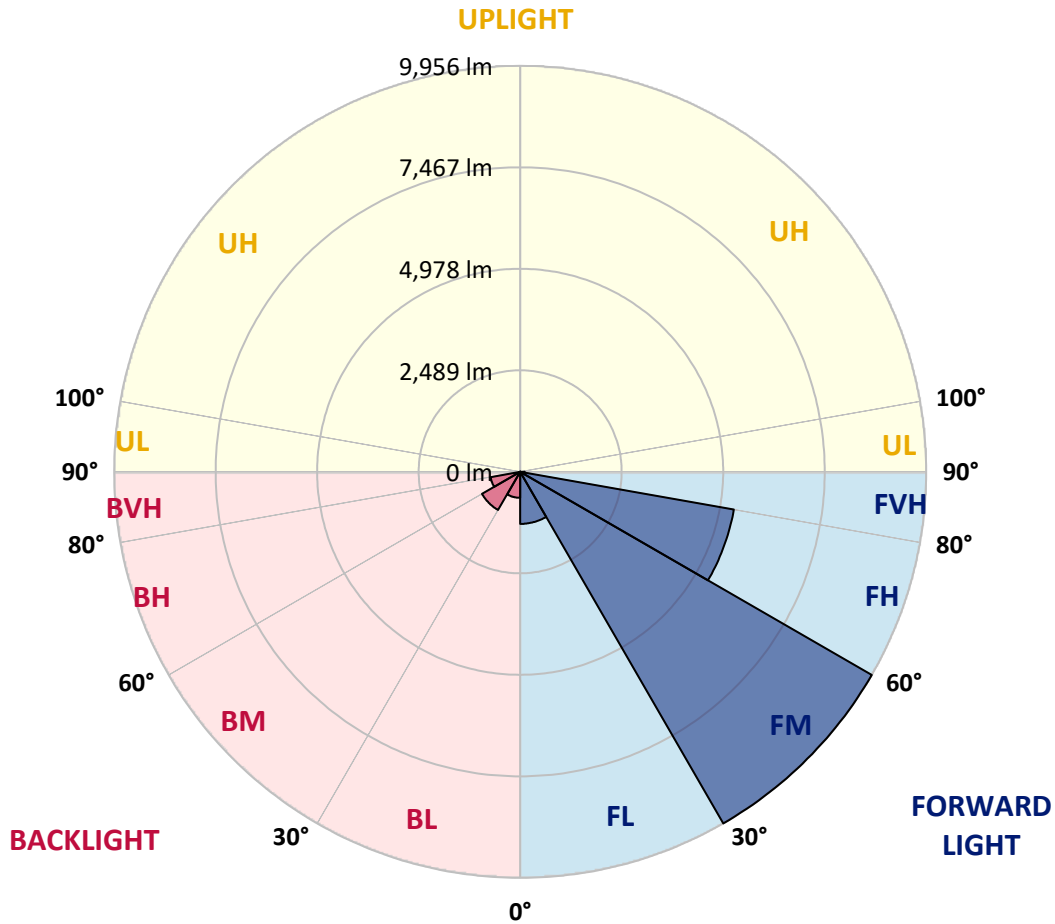
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1277.0	6.7			
FM (30°-60°)	9956.0	52.1			
FH (60°-80°)	5320.7	27.8			G3/7500
FVH (80°-90°)	109.0	0.6			G2/225
BL (0°-30°)	637.9	3.3	B2/1000		
BM (30°-60°)	1081.2	5.7	B2/2500		
BH (60°-80°)	737.0	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°	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1
2.5°	2996.6	2989.4	2982.2	2978.6	2978.6	2974.9	2960.5	2956.9	2949.7	2942.5	2935.2
5°	2967.7	2956.9	2953.3	2956.9	2960.5	2967.7	2960.5	2960.5	2953.3	2946.1	2931.6
7.5°	2895.5	2888.3	2891.9	2902.7	2906.3	2931.6	2935.2	2946.1	2946.1	2938.8	2928.0
10°	2808.9	2805.3	2805.3	2823.3	2841.4	2877.5	2902.7	2931.6	2935.2	2935.2	2917.2
12.5°	2743.9	2740.3	2751.1	2772.8	2808.9	2855.8	2899.1	2942.5	2949.7	2953.3	2924.4
15°	2704.2	2704.2	2718.6	2761.9	2812.5	2877.5	2928.0	2985.8	2993.0	2989.4	2949.7
17.5°	2668.1	2671.7	2700.6	2772.8	2830.5	2917.2	2978.6	3043.5	3047.2	3043.5	2978.6
20°	2653.6	2660.8	2704.2	2798.0	2863.0	2960.5	3039.9	3104.9	3108.5	3094.1	3007.4
22.5°	2693.3	2696.9	2751.1	2852.2	2913.6	3021.9	3123.0	3184.3	3188.0	3166.3	3050.8
25°	2830.5	2830.5	2877.5	2964.1	3018.3	3126.6	3234.9	3307.1	3307.1	3281.8	3148.2
27.5°	3151.9	3123.0	3112.1	3137.4	3155.5	3271.0	3386.5	3476.8	3473.2	3437.1	3274.6
30°	3772.8	3700.6	3585.1	3455.1	3390.1	3469.6	3577.9	3693.4	3689.8	3632.0	3429.9
32.5°	4816.2	4711.5	4437.1	4094.2	3816.2	3725.9	3827.0	3953.4	3957.0	3888.4	3679.0
35°	6278.4	6112.4	5621.3	5144.8	4509.4	4166.4	4195.3	4332.4	4375.8	4339.7	4097.8
37.5°	7686.5	7534.8	7065.5	6404.8	5541.9	4841.5	4718.8	4837.9	4888.4	4888.4	4632.1
40°	9105.4	8928.4	8513.3	7848.9	6939.1	5895.7	5455.3	5552.8	5606.9	5617.7	5282.0
42.5°	10242.6	10127.1	9809.4	9293.1	8441.0	7744.2	6516.7	6462.6	6513.1	6473.4	6036.5
45°	11029.7	10939.4	10719.2	10524.2	10109.0	9758.8	7935.6	7570.9	7603.4	7466.2	6885.0
47.5°	11192.1	11091.1	11044.1	11314.9	11611.0	11697.6	9679.4	8888.7	8856.2	8553.0	7765.9
50°	10484.5	10495.3	10668.6	11441.3	12676.0	13455.9	11701.2	10376.2	10257.1	9581.9	8585.5
52.5°	8957.3	9130.6	9567.5	10820.3	13000.9	14733.9	13723.0	11953.9	11769.8	10582.0	9199.2
55°	7007.7	7231.6	7950.0	9390.6	12322.2	15304.4	15427.1	13593.0	13174.2	11333.0	9675.8
57.5°	5209.8	5278.4	6116.0	7430.1	10715.6	14744.8	16300.8	14856.7	14318.7	11932.3	10148.8
60°	3245.7	3289.0	4173.6	5657.5	8116.1	12676.0	16300.8	15726.8	15214.1	12470.2	10582.0
62.5°	2018.2	2032.6	2364.8	3877.5	5516.6	9401.4	15625.7	16401.9	15990.3	12856.5	10953.9
65°	1162.5	1177.0	1332.2	2191.5	3588.7	5628.6	13899.9	16600.5	16416.4	13163.4	11242.7
67.5°	848.4	855.7	917.0	1231.1	2346.7	2891.9	10441.2	15802.6	16033.7	13315.0	11235.5
70°	736.5	747.3	826.8	960.4	1693.3	1776.3	5314.5	13647.2	14293.5	13098.4	10899.7
72.5°	566.8	581.3	700.4	902.6	1242.0	1278.1	1924.3	9711.9	10690.3	11744.5	9979.1
75°	389.9	404.4	523.5	743.7	1025.3	956.7	1057.8	4469.6	5639.4	7877.8	7596.2
77.5°	249.1	252.7	328.5	541.6	884.5	678.7	725.7	1458.6	2047.1	3563.4	3585.1
80°	166.1	169.7	202.2	350.2	606.5	628.2	447.7	675.1	740.1	1039.8	722.1
82.5°	101.1	101.1	137.2	220.2	368.3	519.9	292.4	353.8	379.1	400.8	187.7
85°	39.7	39.7	83.0	144.4	231.1	241.9	184.1	205.8	216.6	234.7	86.6
87.5°	10.8	10.8	46.9	79.4	101.1	111.9	111.9	101.1	108.3	133.6	43.3
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°	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1	2946.1
2.5°	2931.6	2920.8	2906.3	2891.9	2877.5	2866.6	2855.8	2855.8	2848.6	2837.8	2830.5
5°	2924.4	2906.3	2873.9	2848.6	2808.9	2780.0	2758.3	2740.3	2729.4	2704.2	2700.6
7.5°	2913.6	2891.9	2845.0	2794.4	2729.4	2678.9	2628.3	2592.2	2556.1	2527.3	2520.0
10°	2895.5	2870.2	2801.6	2729.4	2639.2	2545.3	2426.2	2289.0	2162.6	2090.4	2068.7
12.5°	2895.5	2863.0	2772.8	2675.3	2545.3	2314.2	2011.0	1707.7	1473.0	1368.3	1339.4
15°	2913.6	2870.2	2751.1	2617.5	2375.6	1906.3	1415.3	1014.5	758.2	678.7	660.7
17.5°	2931.6	2870.2	2718.6	2538.1	2065.1	1382.8	805.1	534.3	451.3	433.2	433.2
20°	2938.8	2863.0	2675.3	2390.1	1649.9	859.3	480.2	400.8	368.3	357.4	357.4
22.5°	2967.7	2866.6	2642.8	2177.1	1198.6	505.5	379.1	335.8	303.3	292.4	292.4
25°	3039.9	2910.0	2650.0	1906.3	769.0	382.7	321.3	278.0	245.5	231.1	231.1
27.5°	3155.5	3007.4	2689.7	1592.2	483.8	328.5	270.8	223.8	198.6	184.1	184.1
30°	3285.4	3115.7	2707.8	1231.1	361.0	278.0	220.2	176.9	158.9	148.0	144.4
32.5°	3512.9	3303.5	2693.3	844.8	296.1	234.7	176.9	140.8	126.4	122.8	122.8
35°	3877.5	3632.0	2664.5	530.7	245.5	187.7	140.8	115.5	104.7	101.1	97.5
37.5°	4372.2	4112.2	2577.8	350.2	202.2	148.0	115.5	97.5	86.6	83.0	83.0
40°	4975.1	4661.0	2411.7	267.2	173.3	119.1	97.5	83.0	75.8	72.2	72.2
42.5°	5664.7	5271.1	2148.2	231.1	144.4	101.1	83.0	68.6	65.0	61.4	61.4
45°	6419.2	5910.2	1783.5	205.8	122.8	83.0	68.6	61.4	54.2	54.2	50.5
47.5°	7220.7	6552.8	1371.9	180.5	104.7	72.2	61.4	50.5	46.9	43.3	43.3
50°	7993.4	7126.9	964.0	155.2	86.6	61.4	50.5	43.3	39.7	36.1	36.1
52.5°	8538.5	7473.5	682.4	133.6	72.2	54.2	39.7	32.5	28.9	28.9	28.9
55°	8975.4	7690.1	476.6	111.9	61.4	46.9	32.5	25.3	25.3	21.7	21.7
57.5°	9387.0	7830.9	350.2	93.9	50.5	36.1	25.3	18.1	18.1	14.4	14.4
60°	9813.0	7906.7	267.2	75.8	43.3	28.9	18.1	14.4	10.8	10.8	10.8
62.5°	10242.6	7953.6	205.8	61.4	36.1	21.7	14.4	10.8	7.2	3.6	3.6
65°	10618.1	7968.1	158.9	46.9	28.9	14.4	10.8	3.6	0.0	0.0	0.0
67.5°	10730.0	7802.0	122.8	36.1	21.7	10.8	7.2	0.0	0.0	0.0	0.0
70°	10426.8	7361.5	93.9	28.9	18.1	7.2	3.6	0.0	0.0	0.0	0.0
72.5°	9253.4	6173.7	72.2	18.1	14.4	7.2	3.6	0.0	0.0	0.0	0.0
75°	6621.4	3292.7	50.5	14.4	10.8	3.6	0.0	0.0	0.0	0.0	0.0
77.5°	3047.2	1274.5	36.1	10.8	7.2	3.6	0.0	0.0	0.0	0.0	0.0
80°	595.7	317.7	14.4	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	137.2	54.2	7.2	7.2	3.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.9	18.1	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	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)