

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: P400256

Luminaire Tested: **ARCH-L-PA3-250-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400256
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-PA3-250-830-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1070mA 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: 18425 lumens
Efficiency: N/A
Efficacy: 73.4 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

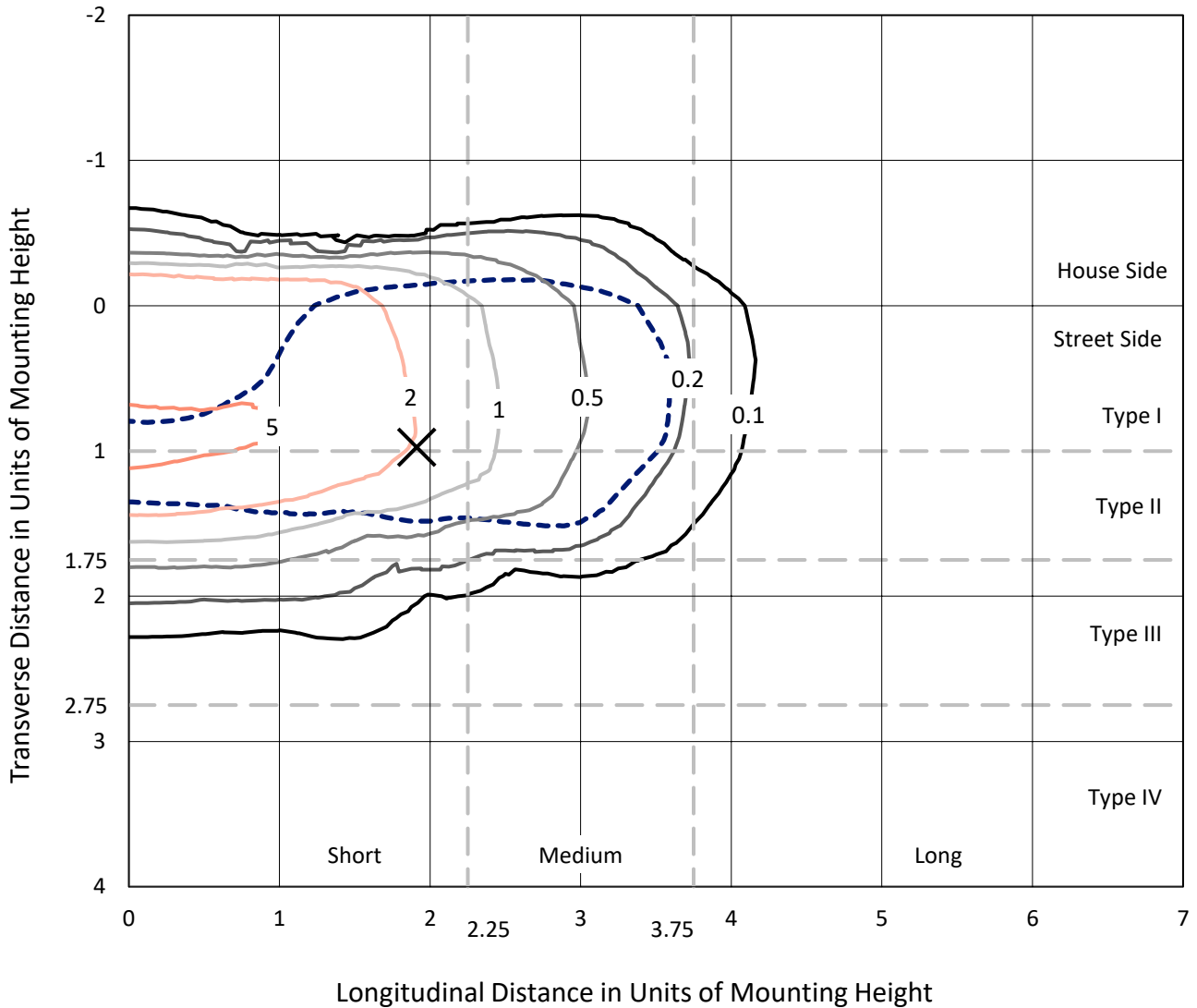
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

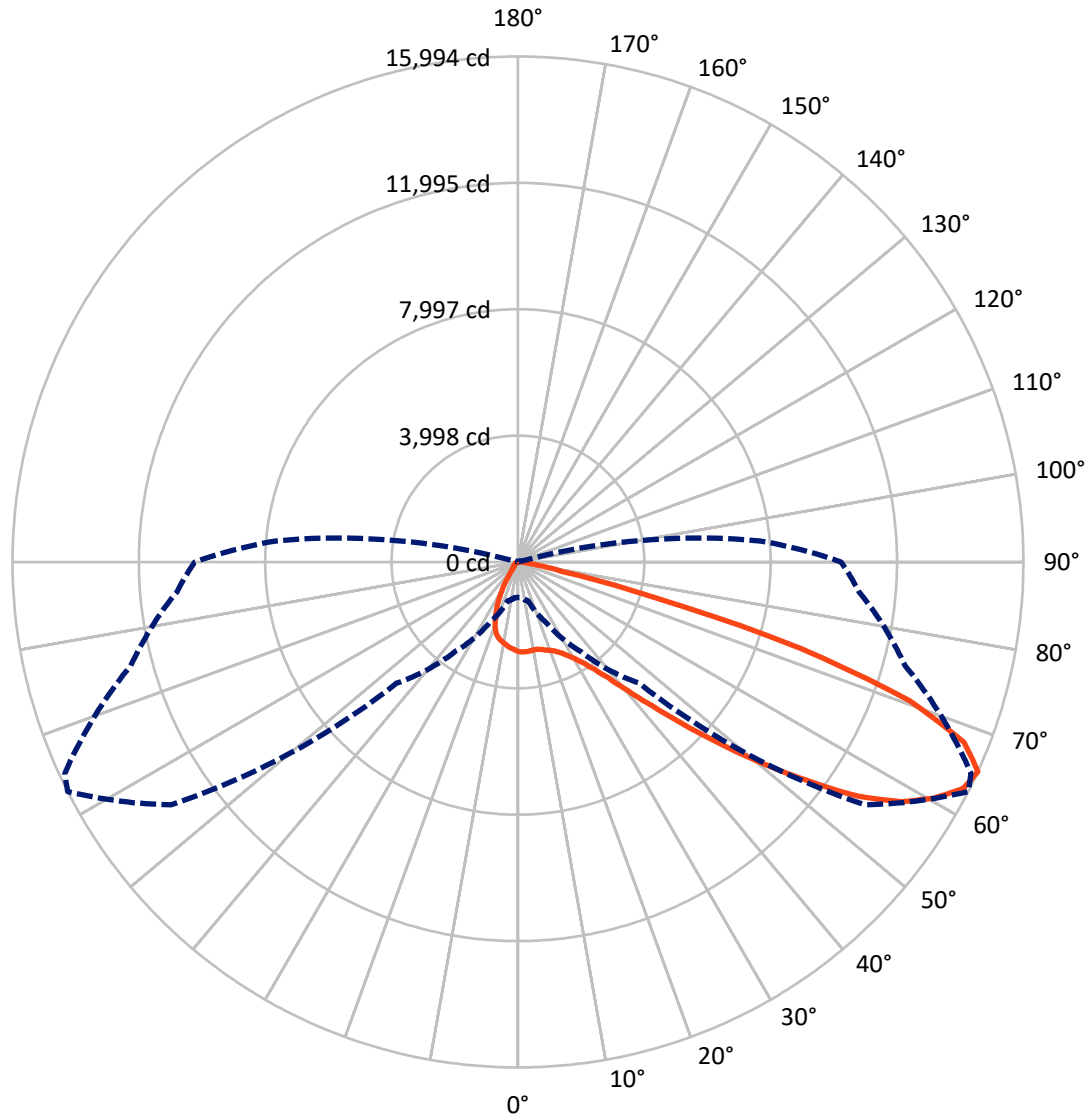
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2371.3	0.0	2371.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	16053.7	0.0	16053.7
	% Fixture	87.1	0.0	87.1
Total	Lumens	18425.0	0.0	18425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.0	1.4
10°-20°	638.9	3.5
20°-30°	947.0	5.1
30°-40°	1758.3	9.5
40°-50°	3724.9	20.2
50°-60°	5150.6	28.0
60°-70°	4123.2	22.4
70°-80°	1713.1	9.3
80°-90°	110.0	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°	18425.0	100.0
0°-180°	18425.0	100.0

Coefficient of Utilization



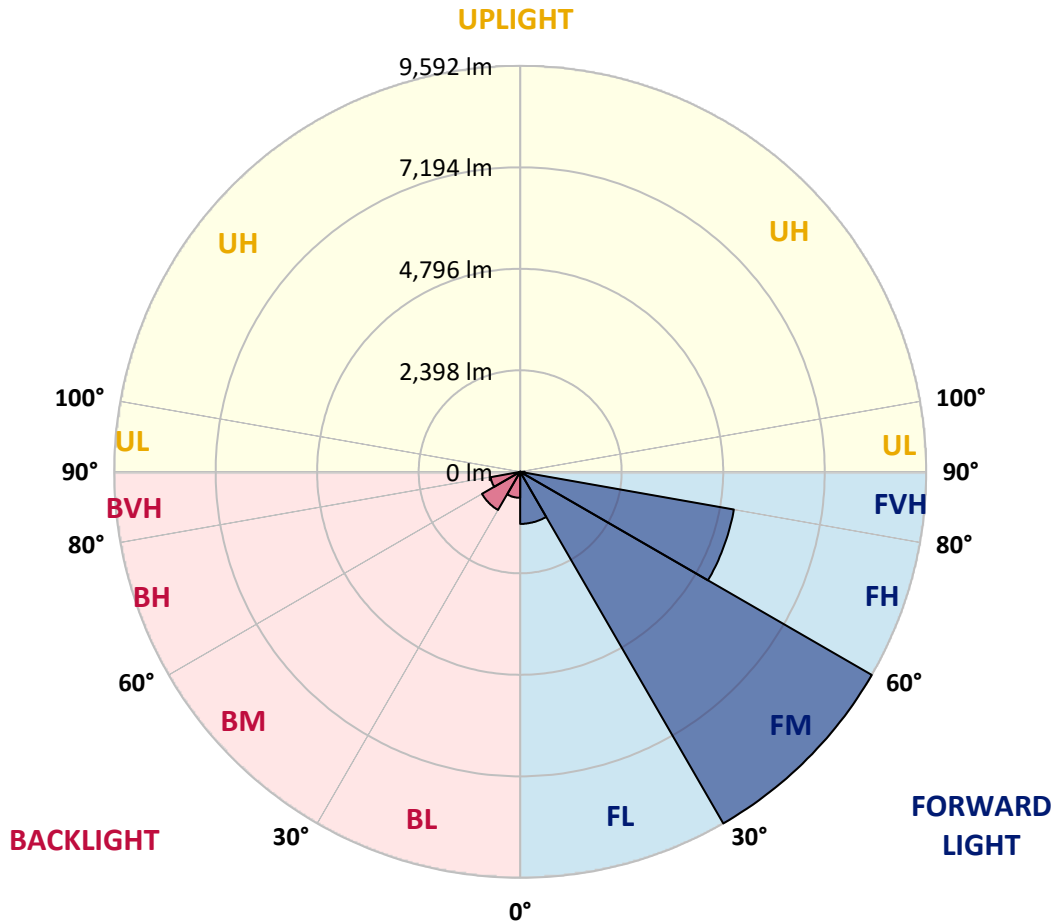
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1230.4	6.7			
FM (30°-60°)	9592.1	52.1			
FH (60°-80°)	5126.3	27.8			G3/7500
FVH (80°-90°)	105.0	0.6			G2/225
BL (0°-30°)	614.6	3.3	B2/1000		
BM (30°-60°)	1041.7	5.7	B2/2500		
BH (60°-80°)	710.0	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.0	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°	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4
2.5°	2887.1	2880.1	2873.2	2869.7	2869.7	2866.2	2852.3	2848.8	2841.9	2834.9	2827.9
5°	2859.3	2848.8	2845.3	2848.8	2852.3	2859.3	2852.3	2852.3	2845.3	2838.4	2824.5
7.5°	2789.7	2782.7	2786.2	2796.6	2800.1	2824.5	2827.9	2838.4	2838.4	2831.4	2821.0
10°	2706.2	2702.7	2702.7	2720.1	2737.5	2772.3	2796.6	2824.5	2827.9	2827.9	2810.6
12.5°	2643.6	2640.1	2650.5	2671.4	2706.2	2751.4	2793.2	2834.9	2841.9	2845.3	2817.5
15°	2605.3	2605.3	2619.2	2661.0	2709.7	2772.3	2821.0	2876.6	2883.6	2880.1	2841.9
17.5°	2570.5	2574.0	2601.8	2671.4	2727.1	2810.6	2869.7	2932.3	2935.8	2932.3	2869.7
20°	2556.6	2563.6	2605.3	2695.8	2758.4	2852.3	2928.8	2991.4	2994.9	2981.0	2897.5
22.5°	2594.9	2598.4	2650.5	2747.9	2807.1	2911.4	3008.8	3068.0	3071.4	3050.6	2939.3
25°	2727.1	2727.1	2772.3	2855.8	2907.9	3012.3	3116.7	3186.2	3186.2	3161.9	3033.2
27.5°	3036.7	3008.8	2998.4	3022.7	3040.1	3151.4	3262.7	3349.7	3346.2	3311.4	3154.9
30°	3634.9	3565.4	3454.1	3328.8	3266.2	3342.8	3447.1	3558.4	3554.9	3499.3	3304.5
32.5°	4640.2	4539.3	4275.0	3944.5	3676.7	3589.7	3687.1	3808.9	3812.3	3746.2	3544.5
35°	6049.0	5888.9	5415.9	4956.7	4344.5	4014.1	4041.9	4174.1	4215.8	4181.0	3948.0
37.5°	7405.5	7259.4	6807.2	6170.7	5339.4	4664.5	4546.3	4661.1	4709.8	4709.8	4462.8
40°	8772.5	8602.1	8202.1	7562.1	6685.5	5680.2	5255.9	5349.8	5402.0	5412.4	5088.9
42.5°	9868.2	9756.9	9450.8	8953.4	8132.5	7461.2	6278.5	6226.4	6275.0	6236.8	5815.9
45°	10626.5	10539.6	10327.4	10139.6	9739.5	9402.1	7645.5	7294.2	7325.5	7193.3	6633.3
47.5°	10783.1	10685.7	10640.5	10901.3	11186.6	11270.0	9325.6	8563.8	8532.5	8240.3	7482.1
50°	10101.3	10111.7	10278.7	11023.1	12212.7	12964.0	11273.5	9996.9	9882.2	9231.7	8271.7
52.5°	8629.9	8796.9	9217.8	10424.8	12525.7	14195.4	13221.4	11517.0	11339.6	10195.2	8863.0
55°	6751.6	6967.3	7659.5	9047.3	11871.8	14745.0	14863.2	13096.2	12692.7	10918.7	9322.1
57.5°	5019.3	5085.4	5892.4	7158.6	10323.9	14205.8	15705.0	14313.7	13795.4	11496.1	9777.8
60°	3127.1	3168.8	4021.0	5450.7	7819.5	12212.7	15705.0	15151.9	14658.0	12014.4	10195.2
62.5°	1944.4	1958.3	2278.4	3735.8	5315.0	9057.8	15054.6	15802.4	15405.9	12386.6	10553.5
65°	1120.0	1134.0	1283.5	2111.4	3457.5	5422.8	13391.9	15993.7	15816.3	12682.3	10831.8
67.5°	817.4	824.4	883.5	1186.1	2261.0	2786.2	10059.6	15225.0	15447.6	12828.4	10824.8
70°	709.6	720.0	796.6	925.3	1631.4	1711.4	5120.2	13148.4	13771.0	12619.7	10501.3
72.5°	546.1	560.0	674.8	869.6	1196.6	1231.4	1854.0	9356.9	10299.6	11315.3	9614.3
75°	375.7	389.6	504.4	716.6	987.9	921.8	1019.2	4306.3	5433.3	7589.9	7318.6
77.5°	240.0	243.5	316.5	521.8	852.2	653.9	699.2	1405.3	1972.3	3433.2	3454.1
80°	160.0	163.5	194.8	337.4	584.4	605.2	431.3	650.5	713.1	1001.8	695.7
82.5°	97.4	97.4	132.2	212.2	354.8	500.9	281.8	340.9	365.2	386.1	180.9
85°	38.3	38.3	80.0	139.1	222.6	233.1	177.4	198.3	208.7	226.1	83.5
87.5°	10.4	10.4	45.2	76.5	97.4	107.8	107.8	97.4	104.4	128.7	41.7
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°	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4	2838.4
2.5°	2824.5	2814.0	2800.1	2786.2	2772.3	2761.9	2751.4	2751.4	2744.5	2734.0	2727.1
5°	2817.5	2800.1	2768.8	2744.5	2706.2	2678.4	2657.5	2640.1	2629.7	2605.3	2601.8
7.5°	2807.1	2786.2	2741.0	2692.3	2629.7	2581.0	2532.3	2497.5	2462.7	2434.9	2427.9
10°	2789.7	2765.3	2699.2	2629.7	2542.7	2452.3	2337.5	2205.3	2083.6	2014.0	1993.1
12.5°	2789.7	2758.4	2671.4	2577.5	2452.3	2229.7	1937.5	1645.3	1419.2	1318.3	1290.5
15°	2807.1	2765.3	2650.5	2521.8	2288.8	1836.6	1363.5	977.4	730.5	653.9	636.5
17.5°	2824.5	2765.3	2619.2	2445.3	1989.6	1332.2	775.7	514.8	434.8	417.4	417.4
20°	2831.4	2758.4	2577.5	2302.7	1589.6	827.9	462.6	386.1	354.8	344.4	344.4
22.5°	2859.3	2761.9	2546.2	2097.5	1154.8	487.0	365.2	323.5	292.2	281.8	281.8
25°	2928.8	2803.6	2553.2	1836.6	740.9	368.7	309.6	267.8	236.5	222.6	222.6
27.5°	3040.1	2897.5	2591.4	1534.0	466.1	316.5	260.9	215.7	191.3	177.4	177.4
30°	3165.4	3001.9	2608.8	1186.1	347.8	267.8	212.2	170.4	153.0	142.6	139.1
32.5°	3384.5	3182.7	2594.9	813.9	285.2	226.1	170.4	135.7	121.7	118.3	118.3
35°	3735.8	3499.3	2567.1	511.3	236.5	180.9	135.7	111.3	100.9	97.4	93.9
37.5°	4212.4	3961.9	2483.6	337.4	194.8	142.6	111.3	93.9	83.5	80.0	80.0
40°	4793.2	4490.6	2323.6	257.4	167.0	114.8	93.9	80.0	73.0	69.6	69.6
42.5°	5457.6	5078.5	2069.7	222.6	139.1	97.4	80.0	66.1	62.6	59.1	59.1
45°	6184.6	5694.2	1718.3	198.3	118.3	80.0	66.1	59.1	52.2	52.2	48.7
47.5°	6956.8	6313.3	1321.8	173.9	100.9	69.6	59.1	48.7	45.2	41.7	41.7
50°	7701.2	6866.4	928.7	149.6	83.5	59.1	48.7	41.7	38.3	34.8	34.8
52.5°	8226.4	7200.3	657.4	128.7	69.6	52.2	38.3	31.3	27.8	27.8	27.8
55°	8647.3	7409.0	459.1	107.8	59.1	45.2	31.3	24.3	24.3	20.9	20.9
57.5°	9043.9	7544.7	337.4	90.4	48.7	34.8	24.3	17.4	17.4	13.9	13.9
60°	9454.3	7617.7	257.4	73.0	41.7	27.8	17.4	13.9	10.4	10.4	10.4
62.5°	9868.2	7662.9	198.3	59.1	34.8	20.9	13.9	10.4	7.0	3.5	3.5
65°	10230.0	7676.8	153.0	45.2	27.8	13.9	10.4	3.5	0.0	0.0	0.0
67.5°	10337.8	7516.8	118.3	34.8	20.9	10.4	7.0	0.0	0.0	0.0	0.0
70°	10045.6	7092.5	90.4	27.8	17.4	7.0	3.5	0.0	0.0	0.0	0.0
72.5°	8915.2	5948.1	69.6	17.4	13.9	7.0	3.5	0.0	0.0	0.0	0.0
75°	6379.4	3172.3	48.7	13.9	10.4	3.5	0.0	0.0	0.0	0.0	0.0
77.5°	2935.8	1227.9	34.8	10.4	7.0	3.5	0.0	0.0	0.0	0.0	0.0
80°	573.9	306.1	13.9	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	132.2	52.2	7.0	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.2	17.4	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.4	7.0	3.5	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)