

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: P399390

Luminaire Tested: **ARCH-L-PA3-130-830-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399390  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-130-830-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13398 lumens  
Efficiency: N/A  
Efficacy: 100.7 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

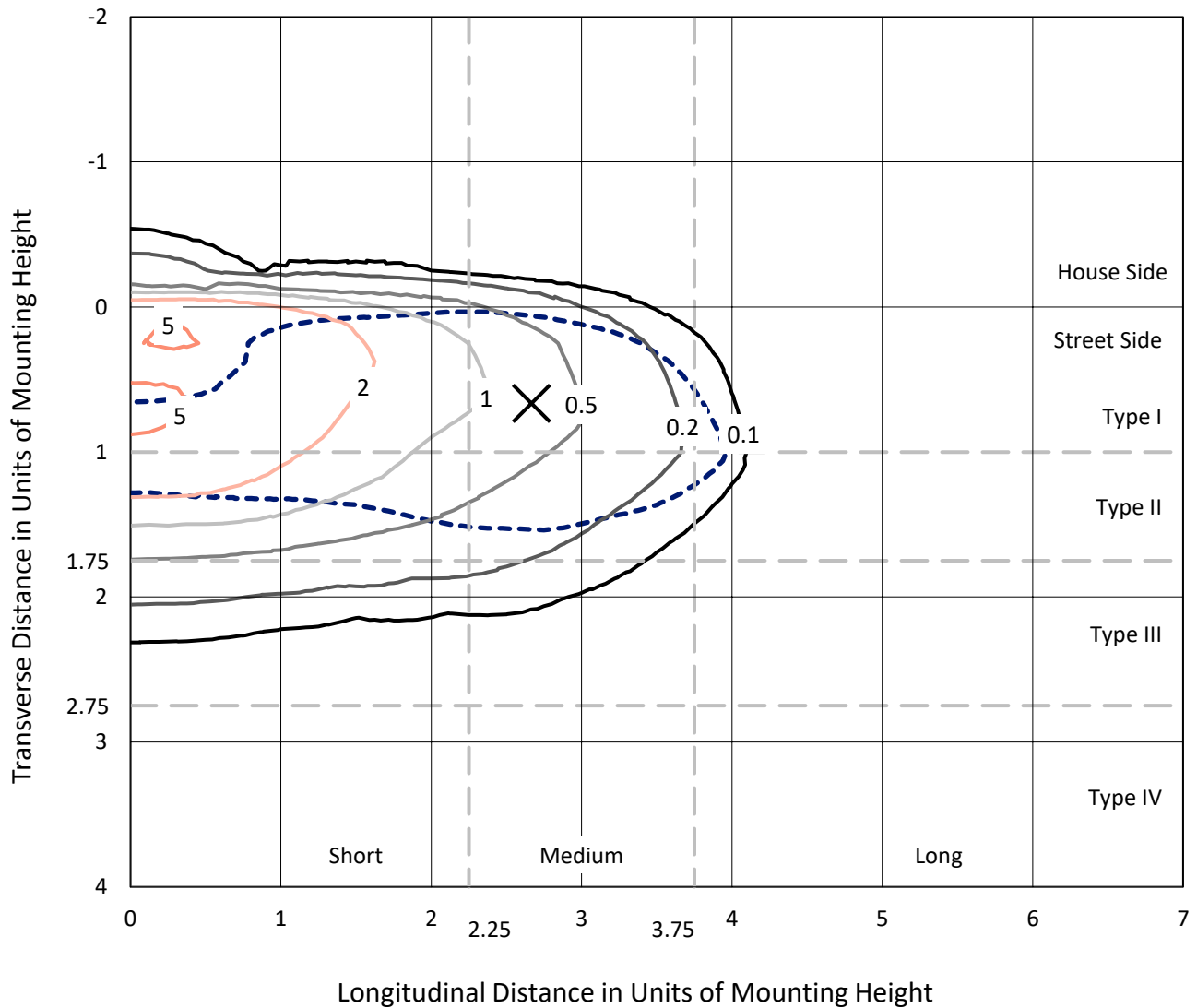
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

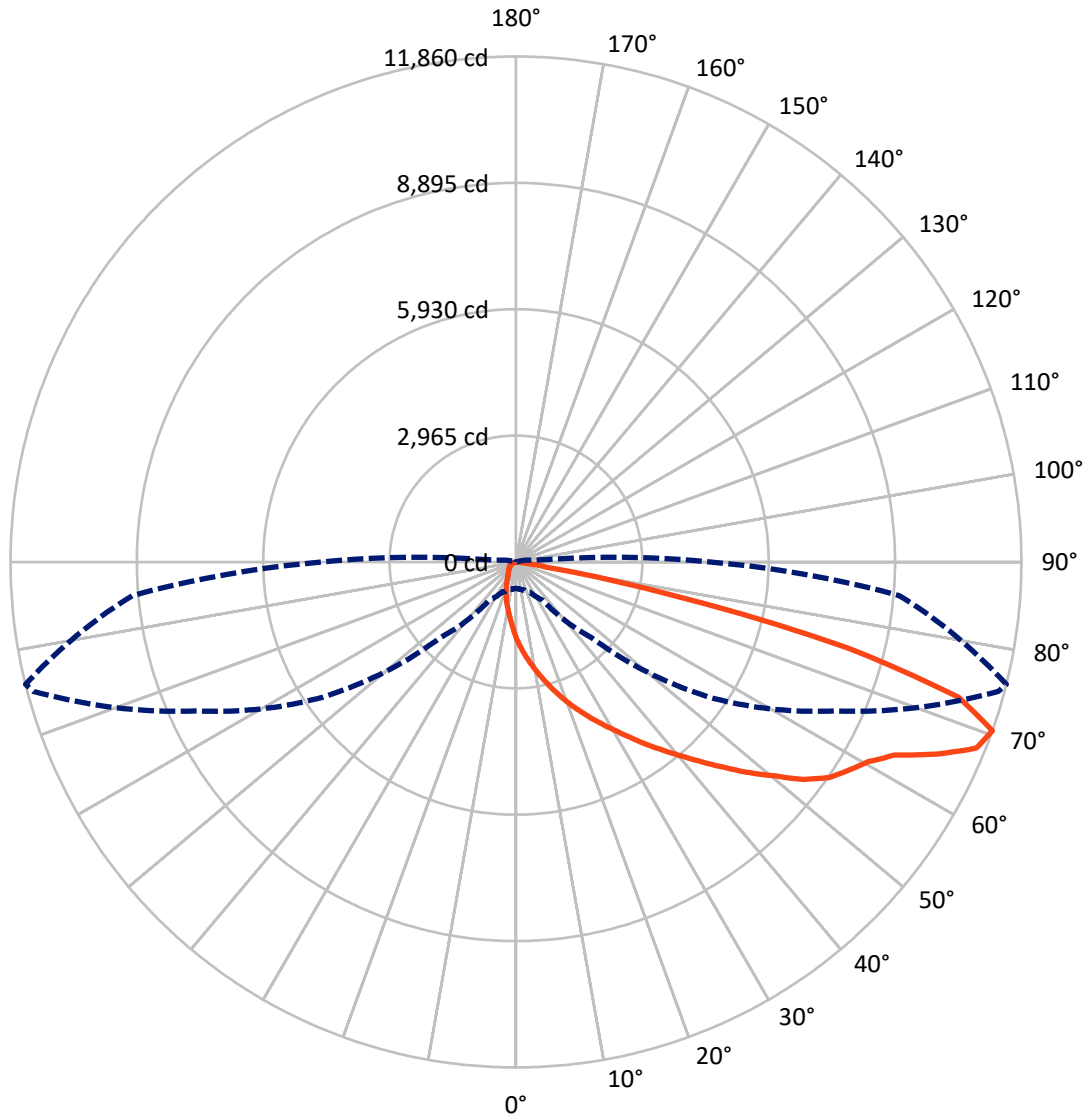
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	631.9	0.0	631.9
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	12766.1	0.0	12766.1
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	13398.0	0.0	13398.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.9	1.3
10°-20°	545.3	4.1
20°-30°	1015.5	7.6
30°-40°	1796.3	13.4
40°-50°	2746.9	20.5
50°-60°	3114.3	23.2
60°-70°	2669.7	19.9
70°-80°	1293.1	9.7
80°-90°	48.0	0.4
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°	13398.0	100.0
0°-180°	13398.0	100.0

**Coefficient of Utilization**

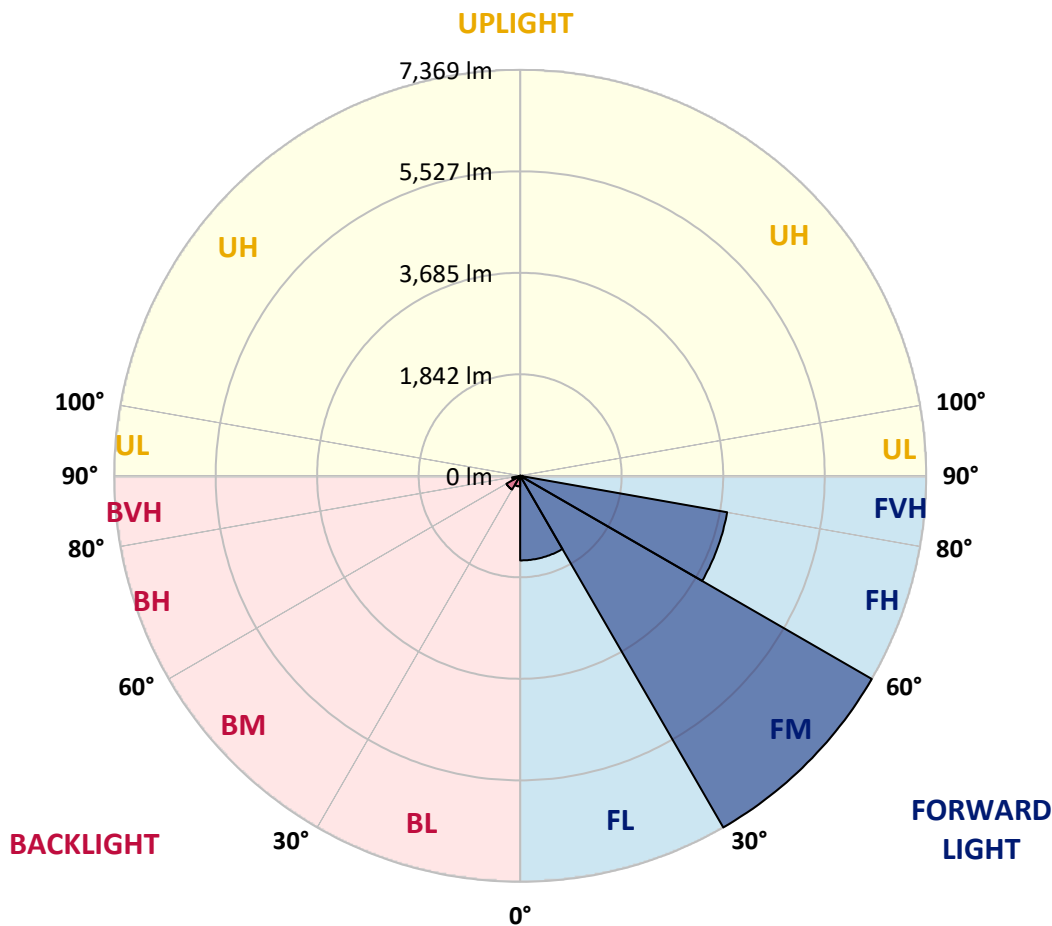


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.9	11.5			
FM (30°-60°)	7369.0	55.0			
FH (60°-80°)	3814.0	28.5			G2/5000
FVH (80°-90°)	47.1	0.4			G1/100
BL (0°-30°)	193.8	1.4	B1/500		
BM (30°-60°)	288.4	2.2	B1/1000		
BH (60°-80°)	148.8	1.1	B1/500		G1/500
BVH (80°-90°)	0.8	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-G2**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1793.4	1793.4	1793.4	1793.4	1793.4	1793.4	1793.4	1793.4	1793.4	1793.4	1793.4
2.5°	2451.4	2438.1	2424.7	2373.4	2326.5	2284.1	2203.8	2099.0	2005.3	1985.2	1875.9
5°	2879.7	2864.1	2844.0	2792.7	2732.5	2661.1	2542.9	2382.3	2217.2	2181.5	1978.5
7.5°	3169.7	3156.3	3127.3	3102.8	3042.5	2973.4	2841.8	2654.4	2426.9	2382.3	2096.8
10°	3368.2	3359.3	3354.8	3334.8	3290.1	3234.4	3102.8	2906.5	2638.8	2587.5	2221.7
12.5°	3439.6	3439.6	3461.9	3495.4	3502.1	3484.2	3363.8	3167.5	2861.9	2808.3	2368.9
15°	3343.7	3354.8	3403.9	3511.0	3622.5	3696.1	3620.3	3437.4	3107.2	3049.2	2542.9
17.5°	3316.9	3328.1	3361.5	3455.2	3604.7	3801.0	3838.9	3698.3	3339.2	3290.1	2721.3
20°	3392.8	3403.9	3432.9	3513.2	3627.0	3825.5	3983.9	3950.4	3584.6	3533.3	2902.0
22.5°	3573.4	3580.1	3580.1	3642.6	3743.0	3890.2	4075.3	4189.1	3836.6	3780.9	3080.5
25°	3961.6	3948.2	3894.6	3863.4	3928.1	4048.6	4191.3	4398.8	4117.7	4041.9	3272.3
27.5°	4470.1	4514.7	4385.4	4235.9	4186.9	4256.0	4354.1	4583.9	4389.8	4309.5	3446.3
30°	5159.4	5141.6	4972.0	4757.9	4546.0	4521.4	4554.9	4742.3	4662.0	4586.1	3640.4
32.5°	5726.0	5759.4	5581.0	5320.0	5003.3	4853.8	4818.1	4931.9	4951.9	4902.9	3870.1
35°	6308.2	6343.8	6169.9	5879.9	5502.9	5253.1	5150.5	5166.1	5311.1	5248.6	4111.0
37.5°	6830.1	6861.3	6689.6	6392.9	6015.9	5710.4	5563.1	5442.7	5659.1	5603.3	4365.3
40°	7227.2	7231.6	7115.6	6850.2	6493.3	6176.6	6009.3	5772.8	6027.1	5989.2	4630.7
42.5°	7508.2	7517.1	7432.4	7204.9	6874.7	6580.3	6444.2	6163.2	6450.9	6417.5	4938.6
45°	7639.8	7655.4	7646.5	7436.8	7162.5	6908.2	6863.6	6578.1	6914.9	6883.7	5293.2
47.5°	7514.9	7514.9	7628.7	7599.7	7347.6	7178.1	7229.4	7010.8	7419.0	7390.0	5654.6
50°	6995.2	7001.9	7233.9	7566.2	7419.0	7381.1	7541.7	7434.6	7876.3	7894.1	6087.3
52.5°	5630.1	5618.9	6401.8	7039.8	7369.9	7472.5	7829.4	7867.4	8425.0	8478.5	6517.8
55°	4206.9	4200.2	4949.7	6107.4	7026.4	7425.7	7990.0	8253.2	8893.4	8926.9	6839.0
57.5°	3330.3	3312.5	3725.1	4923.0	6250.2	7216.0	7996.7	8326.9	9154.4	9212.4	7151.3
60°	2560.7	2545.1	2852.9	3662.7	5150.5	6658.4	7804.9	8331.3	9406.5	9509.1	7570.7
62.5°	1831.3	1849.2	2085.6	2627.7	3961.6	5871.0	7555.1	8393.8	9854.8	9970.8	8166.3
65°	1235.8	1226.8	1423.1	1788.9	2817.3	4811.4	7171.4	8525.4	10662.3	10865.3	8880.0
67.5°	858.8	865.5	954.7	1164.4	1788.9	3693.9	6533.4	8599.0	11496.6	11654.9	9379.7
70°	620.1	629.0	678.1	782.9	1093.0	2505.0	5523.0	8262.2	11721.8	11860.1	9031.7
72.5°	408.2	426.0	499.7	555.4	698.2	1568.1	4068.6	7117.9	10751.5	10854.1	7577.4
75°	220.8	225.3	321.2	414.9	497.4	977.0	2426.9	4800.3	8043.6	8010.1	4996.6
77.5°	171.8	178.4	198.5	296.7	334.6	537.6	959.2	2168.2	3809.9	3707.3	1704.2
80°	104.8	109.3	138.3	176.2	234.2	312.3	281.1	588.9	774.0	724.9	249.8
82.5°	62.5	66.9	82.5	147.2	185.1	147.2	98.1	142.8	145.0	142.8	62.5
85°	11.2	11.2	58.0	102.6	98.1	42.4	58.0	46.8	42.4	44.6	13.4
87.5°	0.0	0.0	22.3	31.2	44.6	15.6	22.3	11.2	11.2	11.2	6.7
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°	1793.4	1793.4	1793.4	1793.4	1793.4	1793.4	1793.4	1793.4	1793.4	1793.4	1793.4
2.5°	1809.0	1733.2	1577.0	1441.0	1304.9	1204.5	1128.7	1050.6	1023.8	990.4	972.5
5°	1840.3	1690.8	1380.7	1133.1	923.5	762.9	660.3	597.8	557.7	528.7	522.0
7.5°	1887.1	1657.3	1222.4	887.8	658.0	497.4	412.7	370.3	348.0	334.6	330.1
10°	1942.9	1628.3	1066.2	691.5	464.0	350.2	303.4	285.5	276.6	272.1	269.9
12.5°	2020.9	1617.2	934.6	533.1	350.2	287.7	263.2	252.1	245.4	238.7	236.4
15°	2123.5	1621.7	814.2	412.7	290.0	256.5	236.4	225.3	216.4	209.7	209.7
17.5°	2230.6	1628.3	695.9	334.6	263.2	234.2	211.9	196.3	189.6	182.9	180.7
20°	2331.0	1626.1	582.2	285.5	238.7	209.7	187.4	171.8	160.6	153.9	153.9
22.5°	2426.9	1612.7	475.1	256.5	218.6	185.1	160.6	145.0	136.1	129.4	129.4
25°	2529.5	1586.0	388.1	234.2	194.1	162.8	138.3	122.7	116.0	109.3	109.3
27.5°	2609.8	1541.3	316.7	214.1	171.8	140.5	118.2	104.8	98.1	93.7	93.7
30°	2696.8	1476.7	263.2	191.8	149.5	120.5	100.4	89.2	82.5	80.3	80.3
32.5°	2792.7	1405.3	225.3	169.5	127.1	102.6	84.8	78.1	71.4	69.1	69.1
35°	2904.3	1342.8	203.0	147.2	111.5	87.0	73.6	66.9	62.5	62.5	62.5
37.5°	3031.4	1278.1	182.9	129.4	95.9	73.6	62.5	60.2	58.0	55.8	55.8
40°	3169.7	1209.0	165.1	113.8	82.5	62.5	53.5	53.5	51.3	51.3	51.3
42.5°	3325.8	1148.8	149.5	100.4	71.4	53.5	46.8	46.8	44.6	44.6	44.6
45°	3495.4	1093.0	136.1	89.2	62.5	46.8	42.4	40.2	37.9	37.9	37.9
47.5°	3696.1	1061.8	124.9	78.1	53.5	40.2	35.7	33.5	31.2	29.0	29.0
50°	3952.6	1075.2	113.8	64.7	46.8	33.5	29.0	26.8	24.5	22.3	22.3
52.5°	4155.6	1068.5	98.1	55.8	37.9	26.8	22.3	20.1	17.8	15.6	15.6
55°	4302.8	1041.7	84.8	46.8	29.0	22.3	17.8	13.4	11.2	11.2	11.2
57.5°	4447.8	1014.9	71.4	37.9	22.3	15.6	11.2	8.9	8.9	8.9	8.9
60°	4673.1	977.0	62.5	31.2	17.8	11.2	6.7	6.7	4.5	4.5	4.5
62.5°	4947.5	930.2	51.3	26.8	13.4	8.9	4.5	4.5	0.0	0.0	0.0
65°	5248.6	847.6	42.4	20.1	11.2	6.7	4.5	0.0	0.0	0.0	0.0
67.5°	5179.5	680.3	35.7	13.4	8.9	4.5	2.2	0.0	0.0	0.0	0.0
70°	4581.7	459.5	29.0	11.2	6.7	4.5	2.2	0.0	0.0	0.0	0.0
72.5°	3589.0	272.1	20.1	8.9	4.5	2.2	0.0	0.0	0.0	0.0	0.0
75°	2297.5	136.1	13.4	6.7	4.5	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	769.6	66.9	8.9	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	109.3	22.3	4.5	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.5	8.9	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.9	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	2.2	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)