

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: P399210

Luminaire Tested: **ARCH-L-PA3-110-740-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399210  
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-PA3-110-740-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 485mA 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: 14593 lumens  
Efficiency: N/A  
Efficacy: 129.1 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

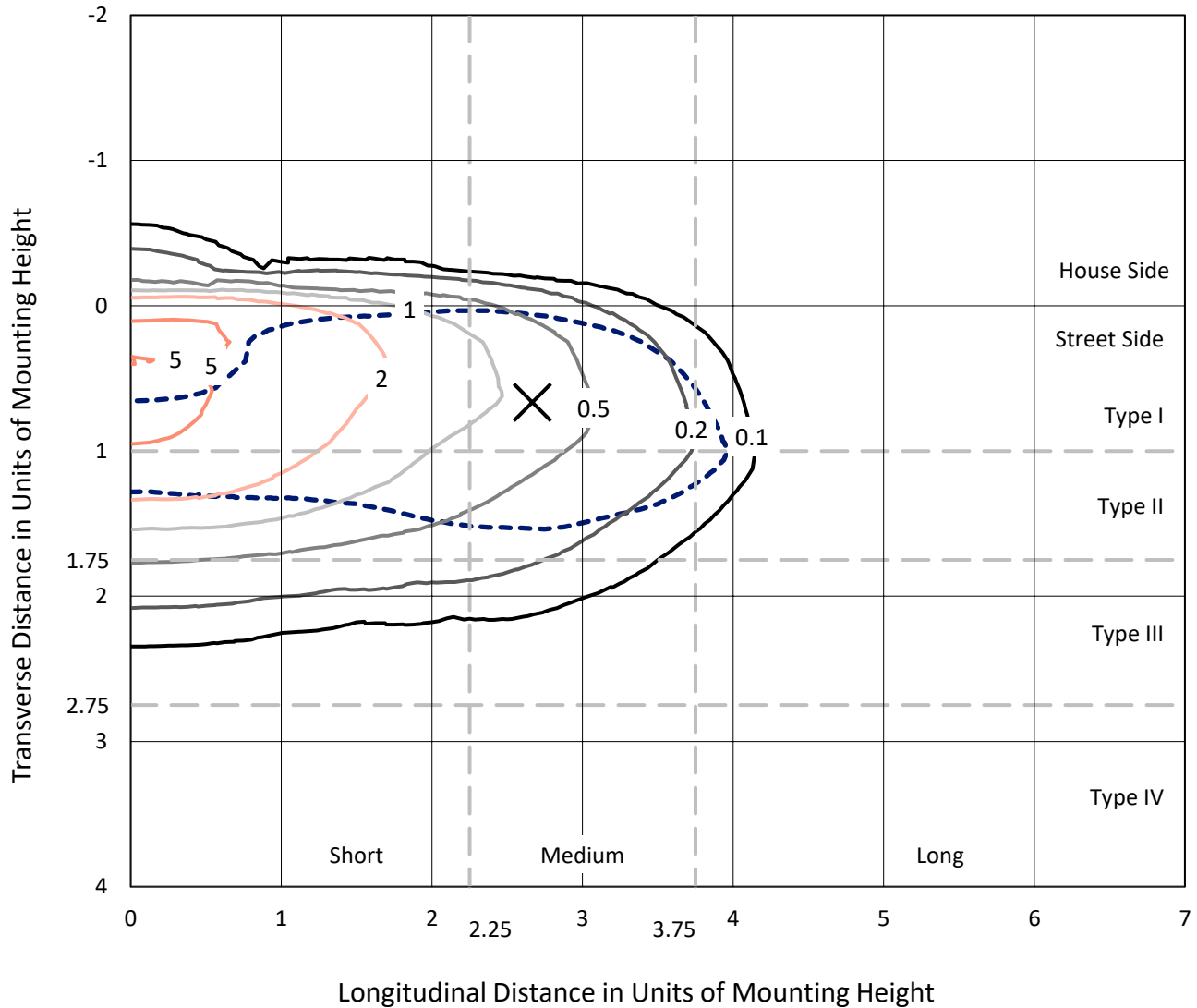
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

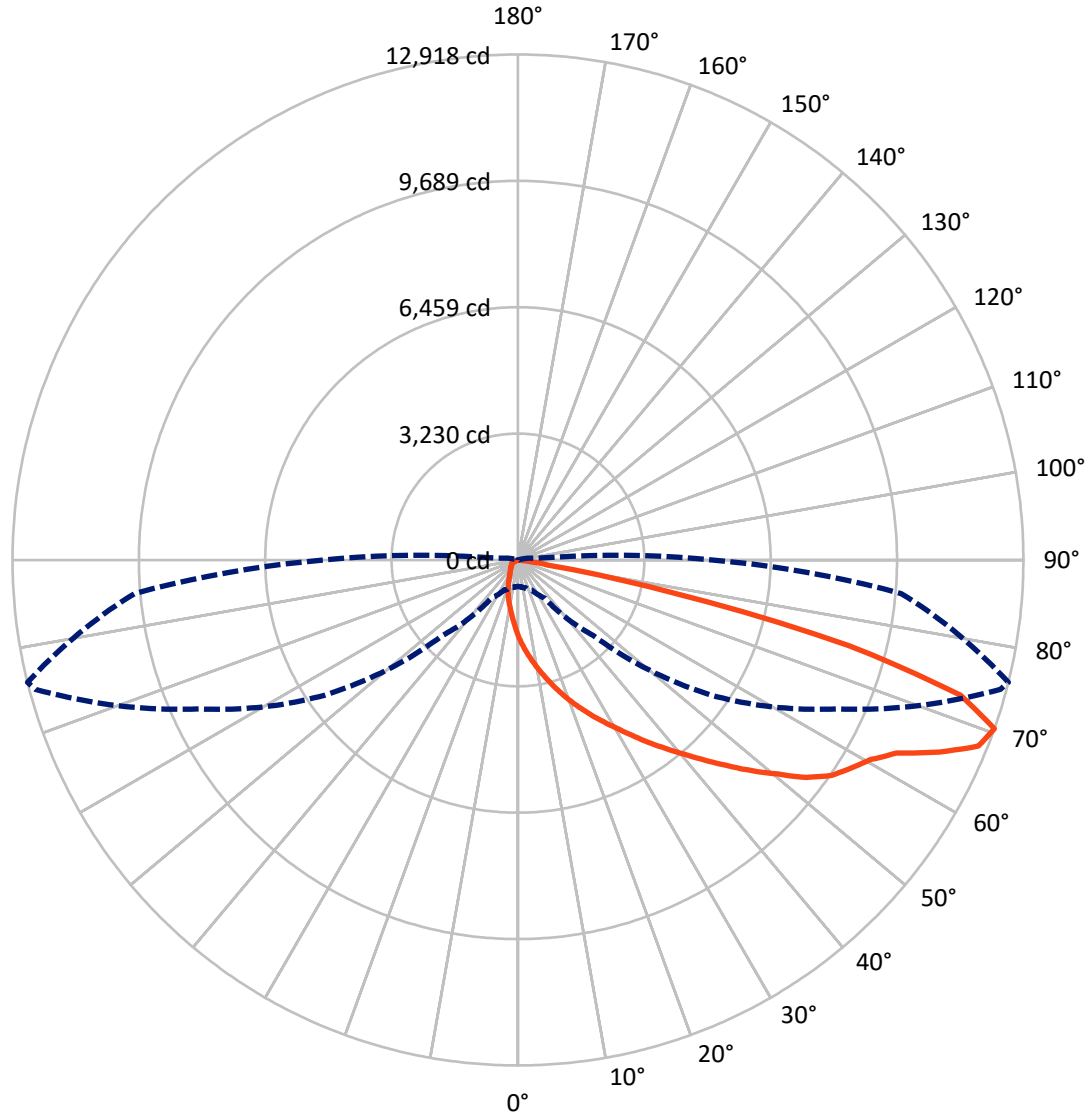
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	688.2	0.0	688.2
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	13904.8	0.0	13904.8
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	14593.0	0.0	14593.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.0	1.3
10°-20°	593.9	4.1
20°-30°	1106.1	7.6
30°-40°	1956.5	13.4
40°-50°	2991.9	20.5
50°-60°	3392.1	23.2
60°-70°	2907.9	19.9
70°-80°	1408.4	9.7
80°-90°	52.2	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°	14593.0	100.0
0°-180°	14593.0	100.0

**Coefficient of Utilization**

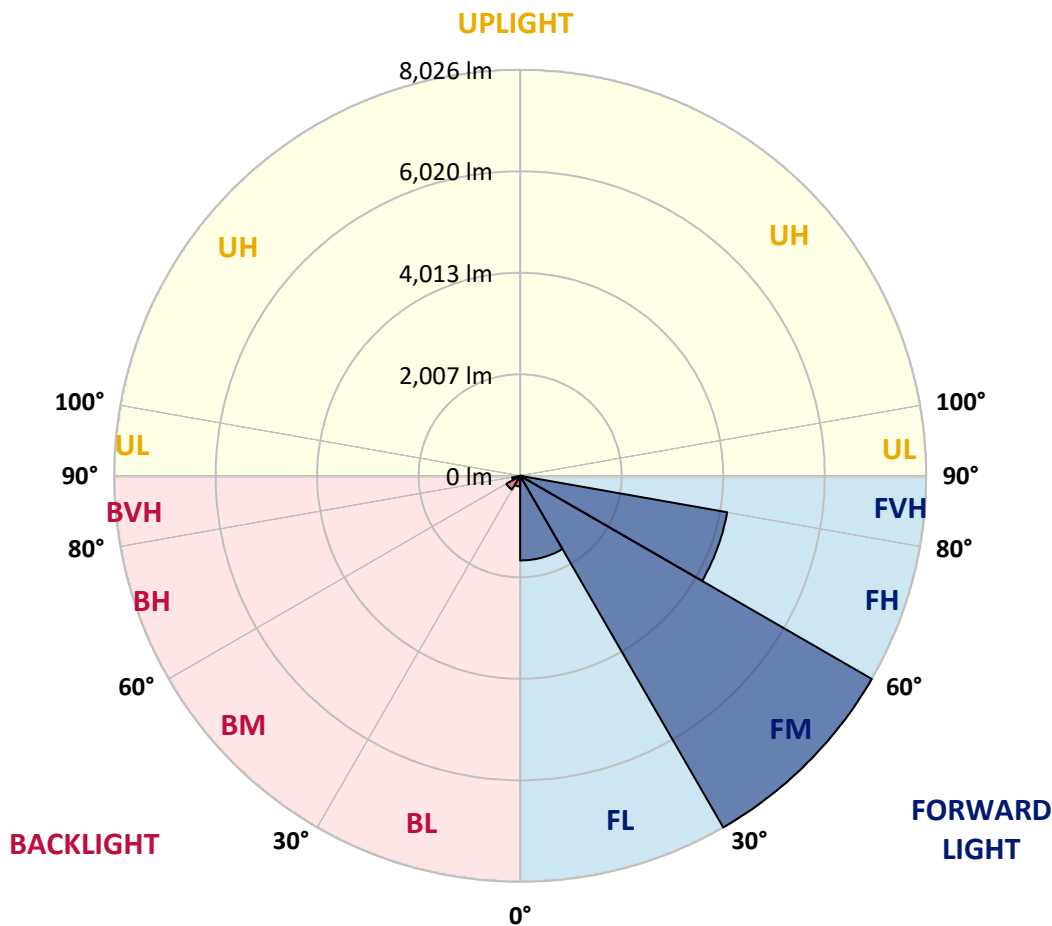


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1672.9	11.5			
FM (30°-60°)	8026.3	55.0			
FH (60°-80°)	4154.2	28.5			G2/5000
FVH (80°-90°)	51.4	0.4			G1/100
BL (0°-30°)	211.1	1.4	B1/500		
BM (30°-60°)	314.2	2.2	B1/1000		
BH (60°-80°)	162.1	1.1	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4
2.5°	2670.1	2655.5	2640.9	2585.1	2534.0	2487.9	2400.4	2286.2	2184.2	2162.3	2043.3
5°	3136.6	3119.6	3097.7	3041.8	2976.2	2898.5	2769.7	2594.8	2415.0	2376.1	2155.0
7.5°	3452.4	3437.8	3406.2	3379.5	3313.9	3238.6	3095.3	2891.2	2643.4	2594.8	2283.8
10°	3668.6	3658.9	3654.1	3632.2	3583.6	3522.9	3379.5	3165.7	2874.2	2818.3	2419.8
12.5°	3746.4	3746.4	3770.7	3807.1	3814.4	3795.0	3663.8	3450.0	3117.1	3058.8	2580.2
15°	3641.9	3654.1	3707.5	3824.1	3945.6	4025.8	3943.2	3744.0	3384.4	3321.2	2769.7
17.5°	3612.8	3624.9	3661.3	3763.4	3926.2	4140.0	4181.3	4028.2	3637.1	3583.6	2964.1
20°	3695.4	3707.5	3739.1	3826.6	3950.5	4166.7	4339.2	4302.8	3904.3	3848.4	3160.9
22.5°	3892.2	3899.4	3899.4	3967.5	4076.8	4237.2	4438.8	4562.7	4178.8	4118.1	3355.2
25°	4314.9	4300.3	4242.0	4208.0	4278.5	4409.7	4565.1	4791.1	4485.0	4402.4	3564.2
27.5°	4868.8	4917.4	4776.5	4613.7	4560.3	4635.6	4742.5	4992.7	4781.4	4693.9	3753.7
30°	5619.6	5600.1	5415.5	5182.3	4951.4	4924.7	4961.2	5165.2	5077.8	4995.2	3965.0
32.5°	6236.7	6273.1	6078.8	5794.5	5449.5	5286.7	5247.9	5371.8	5393.6	5340.2	4215.3
35°	6870.8	6909.7	6720.2	6404.3	5993.7	5721.6	5609.9	5626.9	5784.8	5716.8	4477.7
37.5°	7439.3	7473.3	7286.3	6963.1	6552.5	6219.7	6059.3	5928.1	6163.8	6103.1	4754.7
40°	7871.8	7876.6	7750.3	7461.2	7072.5	6727.5	6545.2	6287.7	6564.7	6523.4	5043.8
42.5°	8177.9	8187.6	8095.3	7847.5	7487.9	7167.2	7019.0	6712.9	7026.3	6989.8	5379.0
45°	8321.2	8338.3	8328.5	8100.2	7801.3	7524.3	7475.8	7164.8	7531.6	7497.6	5765.3
47.5°	8185.2	8185.2	8309.1	8277.5	8003.0	7818.3	7874.2	7636.1	8080.7	8049.1	6158.9
50°	7619.1	7626.4	7879.1	8241.1	8080.7	8039.4	8214.3	8097.7	8578.8	8598.2	6630.3
52.5°	6132.2	6120.1	6972.8	7667.7	8027.3	8139.0	8527.8	8569.1	9176.5	9234.8	7099.2
55°	4582.2	4574.9	5391.2	6652.1	7653.1	8088.0	8702.7	8989.4	9686.7	9723.1	7449.0
57.5°	3627.3	3607.9	4057.4	5362.0	6807.6	7859.6	8710.0	9069.5	9970.9	10034.1	7789.2
60°	2789.1	2772.1	3107.4	3989.3	5609.9	7252.2	8501.0	9074.4	10245.5	10357.2	8245.9
62.5°	1994.7	2014.1	2271.6	2862.0	4314.9	6394.6	8228.9	9142.4	10733.8	10860.1	8894.6
65°	1346.0	1336.3	1550.1	1948.5	3068.5	5240.6	7811.0	9285.8	11613.3	11834.4	9672.1
67.5°	935.4	942.7	1039.9	1268.2	1948.5	4023.4	7116.2	9366.0	12522.0	12694.5	10216.3
70°	675.4	685.1	738.6	852.8	1190.5	2728.4	6015.6	8999.1	12767.3	12918.0	9837.3
72.5°	444.6	464.0	544.2	605.0	760.5	1708.0	4431.5	7752.7	11710.5	11822.2	8253.2
75°	240.5	245.4	349.9	451.9	541.8	1064.1	2643.4	5228.4	8761.0	8724.6	5442.2
77.5°	187.1	194.4	216.2	323.1	364.4	585.5	1044.7	2361.5	4149.7	4037.9	1856.2
80°	114.2	119.0	150.6	191.9	255.1	340.1	306.1	641.4	843.1	789.6	272.1
82.5°	68.0	72.9	89.9	160.4	201.7	160.4	106.9	155.5	157.9	155.5	68.0
85°	12.1	12.1	63.2	111.8	106.9	46.2	63.2	51.0	46.2	48.6	14.6
87.5°	0.0	0.0	24.3	34.0	48.6	17.0	24.3	12.1	12.1	12.1	7.3
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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CATALOG NUMBER: ARCH-L-PA3-110-740-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4	1953.4
2.5°	1970.4	1887.8	1717.7	1569.5	1421.3	1312.0	1229.4	1144.3	1115.2	1078.7	1059.3
5°	2004.4	1841.6	1503.9	1234.2	1005.8	830.9	719.1	651.1	607.4	575.8	568.5
7.5°	2055.4	1805.2	1331.4	967.0	716.7	541.8	449.5	403.3	379.0	364.4	359.6
10°	2116.1	1773.6	1161.3	753.2	505.3	381.4	330.4	311.0	301.3	296.4	294.0
12.5°	2201.2	1761.4	1018.0	580.7	381.4	313.4	286.7	274.5	267.3	260.0	257.5
15°	2312.9	1766.3	886.8	449.5	315.8	279.4	257.5	245.4	235.7	228.4	228.4
17.5°	2429.6	1773.6	758.0	364.4	286.7	255.1	230.8	213.8	206.5	199.2	196.8
20°	2538.9	1771.1	634.1	311.0	260.0	228.4	204.1	187.1	174.9	167.6	167.6
22.5°	2643.4	1756.6	517.5	279.4	238.1	201.7	174.9	157.9	148.2	140.9	140.9
25°	2755.1	1727.4	422.7	255.1	211.4	177.4	150.6	133.6	126.3	119.0	119.0
27.5°	2842.6	1678.8	345.0	233.2	187.1	153.1	128.8	114.2	106.9	102.0	102.0
30°	2937.3	1608.4	286.7	208.9	162.8	131.2	109.3	97.2	89.9	87.5	87.5
32.5°	3041.8	1530.6	245.4	184.6	138.5	111.8	92.3	85.0	77.7	75.3	75.3
35°	3163.3	1462.6	221.1	160.4	121.5	94.8	80.2	72.9	68.0	68.0	68.0
37.5°	3301.8	1392.1	199.2	140.9	104.5	80.2	68.0	65.6	63.2	60.7	60.7
40°	3452.4	1316.8	179.8	123.9	89.9	68.0	58.3	58.3	55.9	55.9	55.9
42.5°	3622.5	1251.2	162.8	109.3	77.7	58.3	51.0	51.0	48.6	48.6	48.6
45°	3807.1	1190.5	148.2	97.2	68.0	51.0	46.2	43.7	41.3	41.3	41.3
47.5°	4025.8	1156.5	136.1	85.0	58.3	43.7	38.9	36.4	34.0	31.6	31.6
50°	4305.2	1171.0	123.9	70.5	51.0	36.4	31.6	29.2	26.7	24.3	24.3
52.5°	4526.3	1163.8	106.9	60.7	41.3	29.2	24.3	21.9	19.4	17.0	17.0
55°	4686.6	1134.6	92.3	51.0	31.6	24.3	19.4	14.6	12.1	12.1	12.1
57.5°	4844.5	1105.5	77.7	41.3	24.3	17.0	12.1	9.7	9.7	9.7	9.7
60°	5089.9	1064.1	68.0	34.0	19.4	12.1	7.3	7.3	4.9	4.9	4.9
62.5°	5388.8	1013.1	55.9	29.2	14.6	9.7	4.9	4.9	0.0	0.0	0.0
65°	5716.8	923.2	46.2	21.9	12.1	7.3	4.9	0.0	0.0	0.0	0.0
67.5°	5641.4	741.0	38.9	14.6	9.7	4.9	2.4	0.0	0.0	0.0	0.0
70°	4990.3	500.5	31.6	12.1	7.3	4.9	2.4	0.0	0.0	0.0	0.0
72.5°	3909.2	296.4	21.9	9.7	4.9	2.4	0.0	0.0	0.0	0.0	0.0
75°	2502.4	148.2	14.6	7.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0
77.5°	838.2	72.9	9.7	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	119.0	24.3	4.9	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.7	9.7	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.7	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	2.4	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)