

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: P400191

Luminaire Tested: **ARCH-L-PA3-250-722-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400191  
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-PA3-250-722-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 1070mA 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: 19686 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3

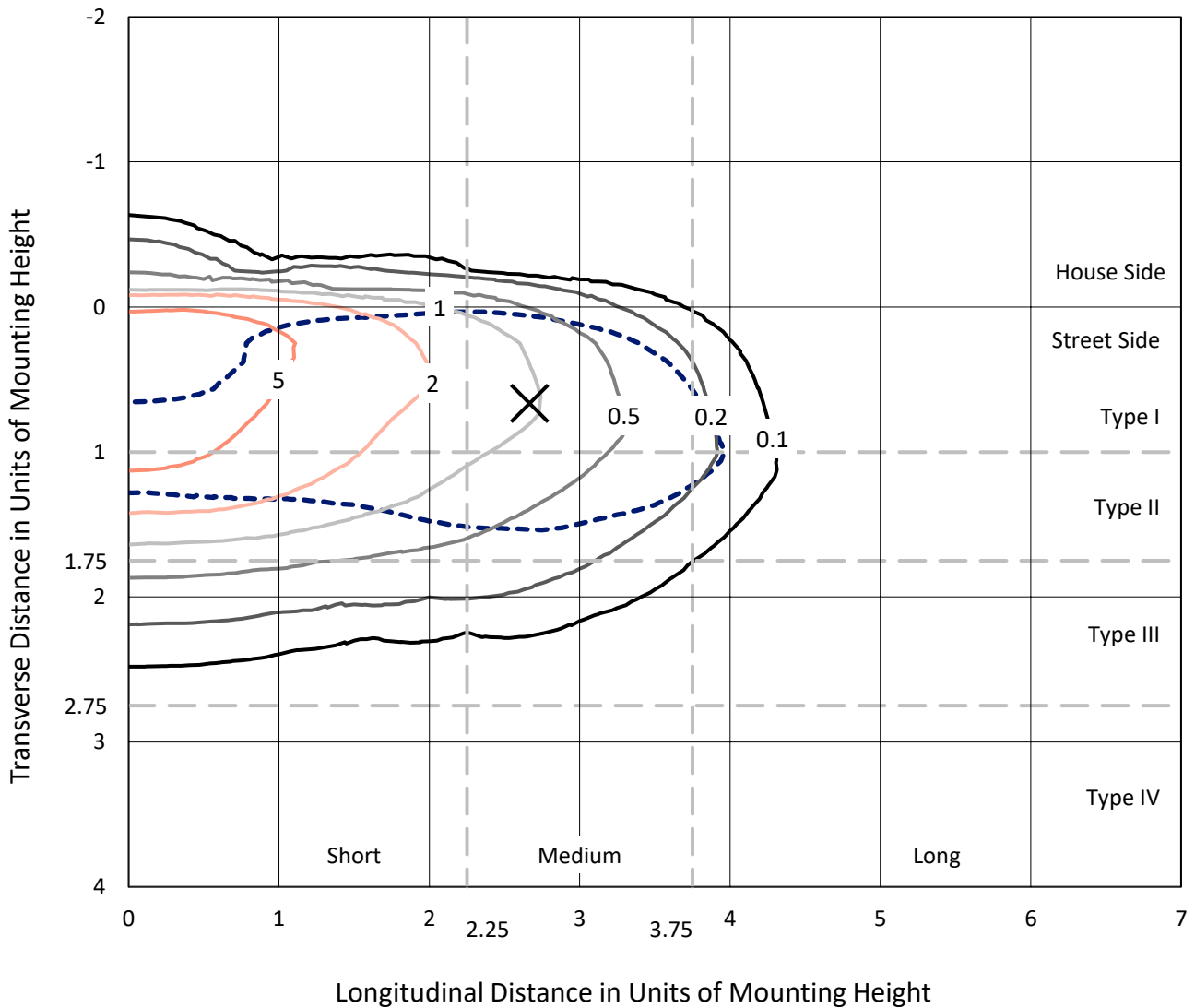
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

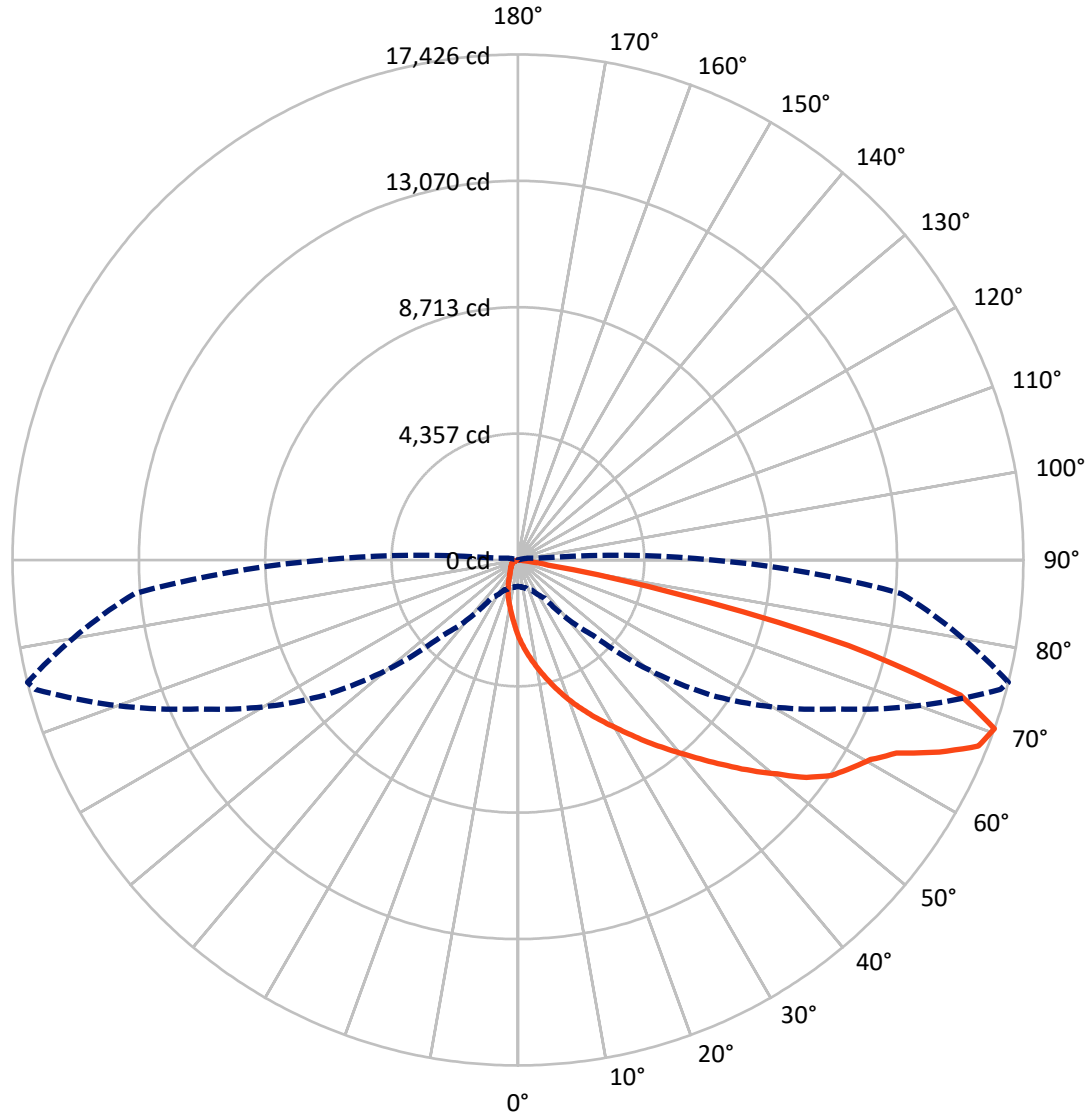
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	928.5	0.0	928.5
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	18757.5	0.0	18757.5
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	19686.0	0.0	19686.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.2	1.3
10°-20°	801.2	4.1
20°-30°	1492.1	7.6
30°-40°	2639.3	13.4
40°-50°	4036.1	20.5
50°-60°	4575.9	23.2
60°-70°	3922.7	19.9
70°-80°	1899.9	9.7
80°-90°	70.5	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°	19686.0	100.0
0°-180°	19686.0	100.0

**Coefficient of Utilization**



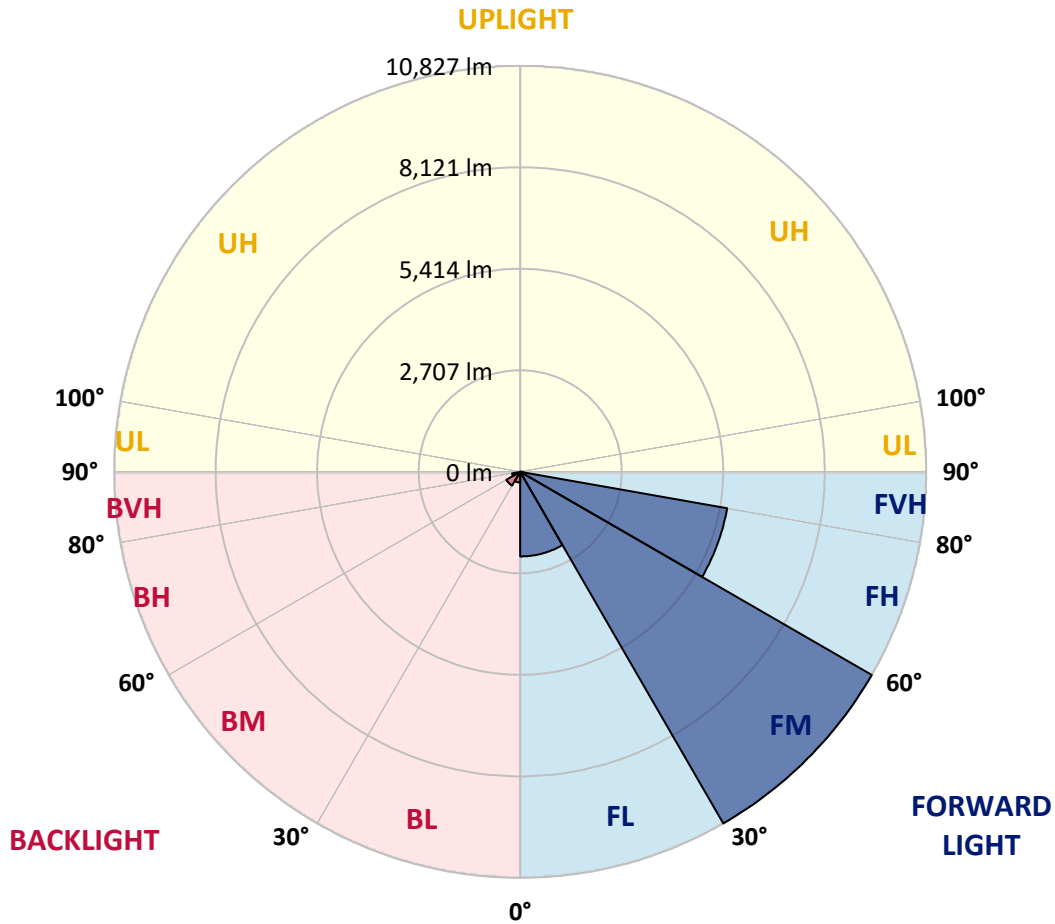
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2256.8	11.5			
FM (30°-60°)	10827.5	55.0			
FH (60°-80°)	5604.0	28.5			G3/7500
FVH (80°-90°)	69.3	0.4			G1/100
BL (0°-30°)	284.8	1.4	B1/500		
BM (30°-60°)	423.8	2.2	B1/1000		
BH (60°-80°)	218.6	1.1	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1
2.5°	3602.0	3582.3	3562.6	3487.2	3418.4	3356.1	3238.2	3084.1	2946.5	2917.0	2756.4
5°	4231.2	4208.3	4178.8	4103.4	4014.9	3910.0	3736.3	3500.4	3257.8	3205.4	2907.1
7.5°	4657.3	4637.6	4595.0	4559.0	4470.5	4368.9	4175.5	3900.2	3565.9	3500.4	3080.8
10°	4949.0	4935.9	4929.3	4899.8	4834.3	4752.4	4559.0	4270.6	3877.3	3801.9	3264.4
12.5°	5053.9	5053.9	5086.7	5135.8	5145.7	5119.4	4942.4	4654.0	4205.0	4126.4	3480.7
15°	4912.9	4929.3	5001.4	5158.8	5322.6	5430.8	5319.4	5050.6	4565.5	4480.3	3736.3
17.5°	4873.6	4890.0	4939.2	5076.8	5296.4	5584.8	5640.6	5434.1	4906.4	4834.3	3998.5
20°	4985.1	5001.4	5044.0	5162.0	5329.2	5620.9	5853.6	5804.4	5266.9	5191.5	4264.0
22.5°	5250.5	5260.4	5260.4	5352.1	5499.6	5715.9	5988.0	6155.1	5637.3	5555.3	4526.2
25°	5820.8	5801.1	5722.5	5676.6	5771.7	5948.6	6158.4	6463.2	6050.2	5938.8	4808.1
27.5°	6568.1	6633.6	6443.5	6223.9	6151.8	6253.4	6397.6	6735.2	6450.1	6332.1	5063.7
30°	7580.8	7554.6	7305.5	6990.9	6679.5	6643.5	6692.6	6967.9	6849.9	6738.5	5348.9
32.5°	8413.3	8462.5	8200.3	7816.8	7351.4	7131.8	7079.4	7246.5	7276.0	7203.9	5686.4
35°	9268.7	9321.2	9065.5	8639.4	8085.6	7718.5	7567.7	7590.7	7803.7	7711.9	6040.4
37.5°	10035.7	10081.5	9829.2	9393.3	8839.4	8390.4	8174.0	7997.1	8315.0	8233.0	6414.0
40°	10619.0	10625.6	10455.2	10065.2	9540.8	9075.4	8829.5	8482.1	8855.8	8800.0	6804.1
42.5°	11032.0	11045.1	10920.6	10586.3	10101.2	9668.6	9468.7	9055.7	9478.5	9429.3	7256.4
45°	11225.4	11248.3	11235.2	10927.1	10524.0	10150.4	10084.8	9665.3	10160.2	10114.3	7777.5
47.5°	11041.8	11041.8	11209.0	11166.4	10796.0	10546.9	10622.3	10301.1	10900.9	10858.3	8308.4
50°	10278.2	10288.0	10628.9	11117.2	10900.9	10845.2	11081.2	10923.9	11572.8	11599.0	8944.3
52.5°	8272.4	8256.0	9406.4	10343.7	10828.8	10979.6	11504.0	11559.7	12379.1	12457.7	9576.8
55°	6181.3	6171.5	7272.7	8973.8	10324.1	10910.7	11739.9	12126.7	13067.3	13116.5	10048.8
57.5°	4893.3	4867.1	5473.4	7233.4	9183.5	10602.7	11749.8	12234.8	13450.8	13536.0	10507.6
60°	3762.6	3739.6	4191.9	5381.6	7567.7	9783.3	11467.9	12241.4	13821.2	13971.9	11123.8
62.5°	2690.8	2717.0	3064.4	3860.9	5820.8	8626.3	11100.8	12333.2	14479.9	14650.4	11998.9
65°	1815.7	1802.6	2091.0	2628.5	4139.5	7069.5	10537.1	12526.5	15666.4	15964.6	13047.7
67.5°	1261.8	1271.7	1402.8	1710.8	2628.5	5427.5	9599.8	12634.7	16892.2	17124.9	13781.8
70°	911.1	924.3	996.4	1150.4	1606.0	3680.6	8115.1	12139.8	17223.2	17426.4	13270.5
72.5°	599.8	626.0	734.2	816.1	1025.9	2304.1	5978.1	10458.5	15797.5	15948.2	11133.6
75°	324.5	331.0	472.0	609.6	730.9	1435.5	3565.9	7053.1	11818.6	11769.4	7341.6
77.5°	252.4	262.2	291.7	435.9	491.6	789.9	1409.3	3185.7	5597.9	5447.2	2504.0
80°	154.0	160.6	203.2	258.9	344.1	458.8	413.0	865.3	1137.3	1065.2	367.1
82.5°	91.8	98.3	121.3	216.3	272.0	216.3	144.2	209.8	213.0	209.8	91.8
85°	16.4	16.4	85.2	150.8	144.2	62.3	85.2	68.8	62.3	65.5	19.7
87.5°	0.0	0.0	32.8	45.9	65.5	22.9	32.8	16.4	16.4	16.4	9.8
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°	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1
2.5°	2658.0	2546.6	2317.2	2117.3	1917.3	1769.8	1658.4	1543.7	1504.4	1455.2	1429.0
5°	2703.9	2484.3	2028.8	1665.0	1356.9	1120.9	970.1	878.4	819.4	776.8	766.9
7.5°	2772.8	2435.2	1796.1	1304.4	966.9	730.9	606.3	544.1	511.3	491.6	485.1
10°	2854.7	2392.6	1566.6	1016.0	681.7	514.6	445.7	419.5	406.4	399.9	396.6
12.5°	2969.4	2376.2	1373.3	783.3	514.6	422.8	386.7	370.4	360.5	350.7	347.4
15°	3120.2	2382.7	1196.3	606.3	426.1	376.9	347.4	331.0	317.9	308.1	308.1
17.5°	3277.5	2392.6	1022.6	491.6	386.7	344.1	311.4	288.4	278.6	268.8	265.5
20°	3425.0	2389.3	855.4	419.5	350.7	308.1	275.3	252.4	236.0	226.1	226.1
22.5°	3565.9	2369.6	698.1	376.9	321.2	272.0	236.0	213.0	199.9	190.1	190.1
25°	3716.7	2330.3	570.3	344.1	285.1	239.3	203.2	180.3	170.4	160.6	160.6
27.5°	3834.7	2264.7	465.4	314.6	252.4	206.5	173.7	154.0	144.2	137.7	137.7
30°	3962.5	2169.7	386.7	281.9	219.6	177.0	147.5	131.1	121.3	118.0	118.0
32.5°	4103.4	2064.8	331.0	249.1	186.8	150.8	124.5	114.7	104.9	101.6	101.6
35°	4267.3	1973.0	298.3	216.3	163.9	127.8	108.2	98.3	91.8	91.8	91.8
37.5°	4454.1	1878.0	268.8	190.1	140.9	108.2	91.8	88.5	85.2	81.9	81.9
40°	4657.3	1776.4	242.5	167.2	121.3	91.8	78.7	78.7	75.4	75.4	75.4
42.5°	4886.7	1687.9	219.6	147.5	104.9	78.7	68.8	68.8	65.5	65.5	65.5
45°	5135.8	1606.0	199.9	131.1	91.8	68.8	62.3	59.0	55.7	55.7	55.7
47.5°	5430.8	1560.1	183.5	114.7	78.7	59.0	52.4	49.2	45.9	42.6	42.6
50°	5807.7	1579.7	167.2	95.0	68.8	49.2	42.6	39.3	36.1	32.8	32.8
52.5°	6106.0	1569.9	144.2	81.9	55.7	39.3	32.8	29.5	26.2	22.9	22.9
55°	6322.3	1530.6	124.5	68.8	42.6	32.8	26.2	19.7	16.4	16.4	16.4
57.5°	6535.3	1491.3	104.9	55.7	32.8	22.9	16.4	13.1	13.1	13.1	13.1
60°	6866.3	1435.5	91.8	45.9	26.2	16.4	9.8	9.8	6.6	6.6	6.6
62.5°	7269.5	1366.7	75.4	39.3	19.7	13.1	6.6	6.6	0.0	0.0	0.0
65°	7711.9	1245.4	62.3	29.5	16.4	9.8	6.6	0.0	0.0	0.0	0.0
67.5°	7610.3	999.6	52.4	19.7	13.1	6.6	3.3	0.0	0.0	0.0	0.0
70°	6732.0	675.2	42.6	16.4	9.8	6.6	3.3	0.0	0.0	0.0	0.0
72.5°	5273.5	399.9	29.5	13.1	6.6	3.3	0.0	0.0	0.0	0.0	0.0
75°	3375.8	199.9	19.7	9.8	6.6	3.3	0.0	0.0	0.0	0.0	0.0
77.5°	1130.7	98.3	13.1	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	160.6	32.8	6.6	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.1	13.1	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.1	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	3.3	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)