

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: LUMARK

Report Number: P381184

Luminaire Tested: **PRV-XL-PA3A-730-U-T2R-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3A-730-U-T2R-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 750mA 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: 17778 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

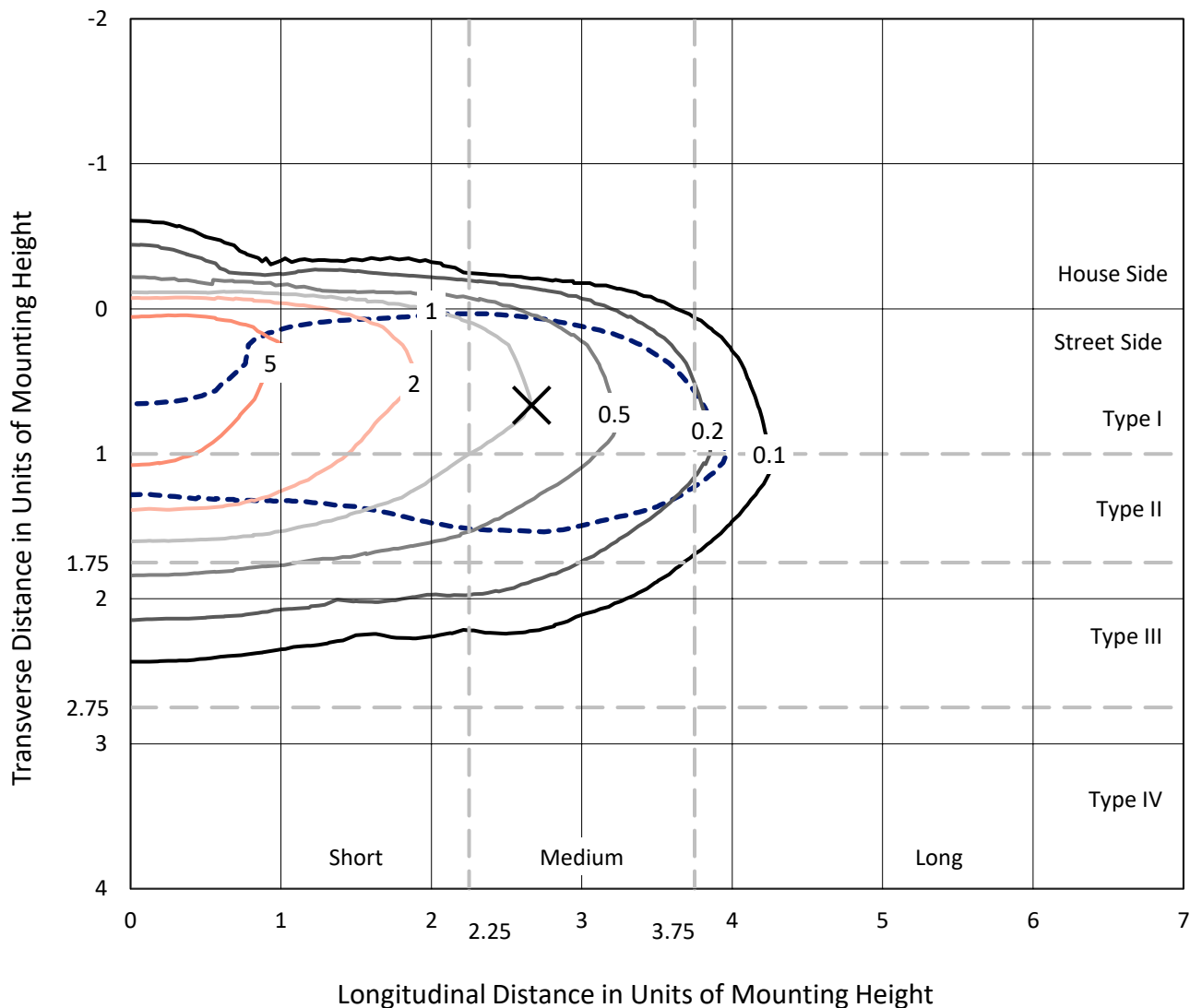
Input Watts (W): 172
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

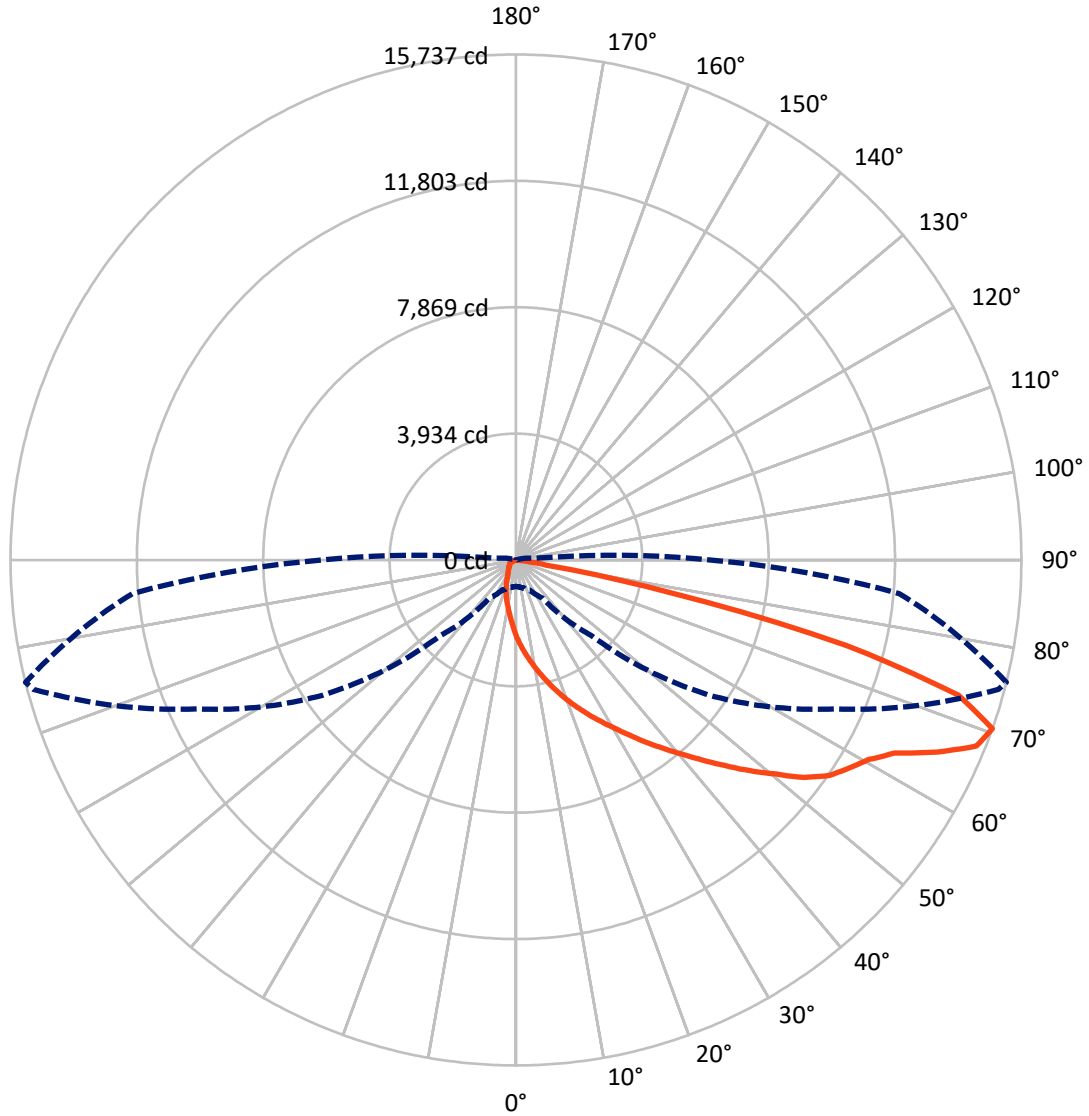
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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
House Side	Lumens	838.5	0.0	838.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16939.5	0.0	16939.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	17778.0	0.0	17778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	1.3
10°-20°	723.6	4.1
20°-30°	1347.5	7.6
30°-40°	2383.5	13.4
40°-50°	3644.9	20.5
50°-60°	4132.4	23.2
60°-70°	3542.5	19.9
70°-80°	1715.8	9.7
80°-90°	63.6	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°	17778.0	100.0
0°-180°	17778.0	100.0

Coefficient of Utilization



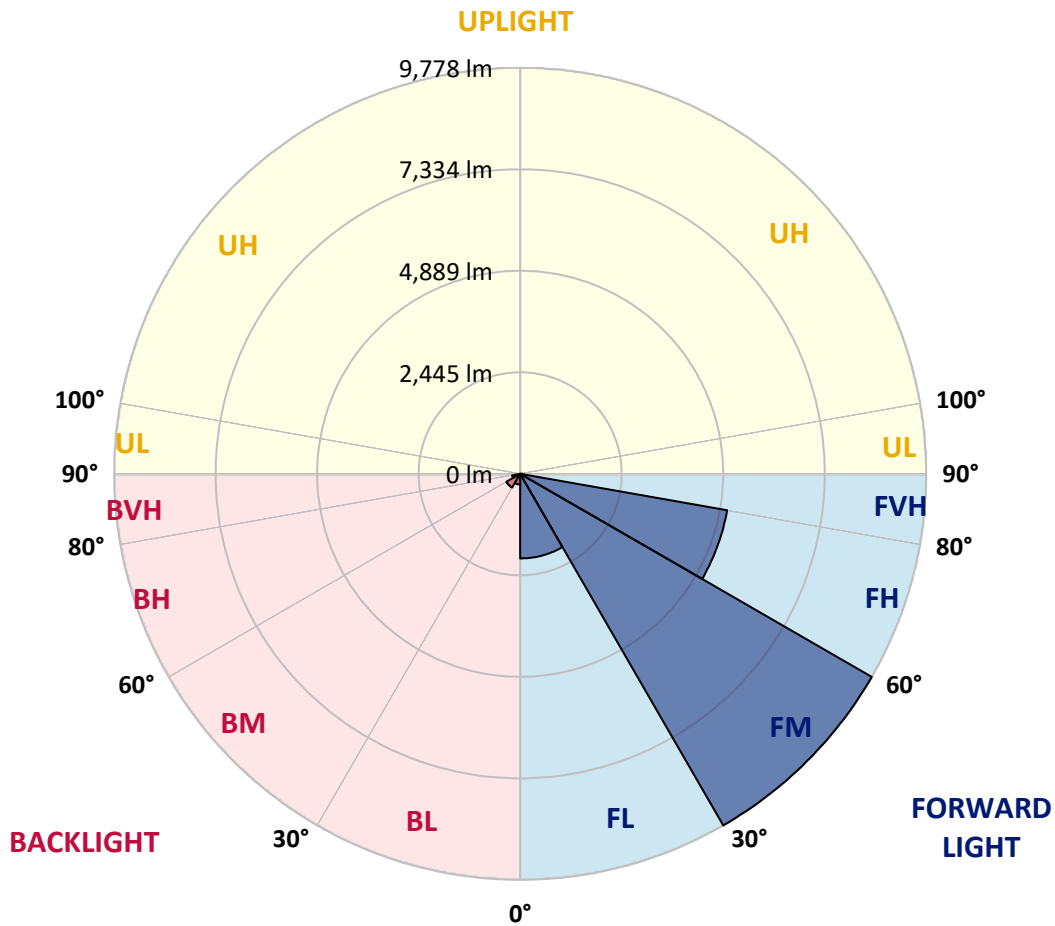
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2038.1	11.5			
FM (30°-60°)	9778.1	55.0			
FH (60°-80°)	5060.9	28.5			G3/7500
FVH (80°-90°)	62.6	0.4			G1/100
BL (0°-30°)	257.2	1.4	B1/500		
BM (30°-60°)	382.7	2.2	B1/1000		
BH (60°-80°)	197.4	1.1	B1/500		G1/500
BVH (80°-90°)	1.1	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°	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7
2.5°	3252.8	3235.1	3217.3	3149.3	3087.1	3030.9	2924.3	2785.2	2660.9	2634.2	2489.2
5°	3821.1	3800.4	3773.8	3705.7	3625.8	3531.1	3374.2	3161.1	2942.1	2894.7	2625.4
7.5°	4205.9	4188.2	4149.7	4117.1	4037.2	3945.4	3770.8	3522.2	3220.3	3161.1	2782.2
10°	4469.3	4457.5	4451.6	4424.9	4365.7	4291.7	4117.1	3856.7	3501.5	3433.4	2948.0
12.5°	4564.1	4564.1	4593.6	4638.0	4646.9	4623.2	4463.4	4203.0	3797.5	3726.4	3143.3
15°	4436.8	4451.6	4516.7	4658.8	4806.8	4904.4	4803.8	4561.1	4123.0	4046.1	3374.2
17.5°	4401.3	4416.1	4460.5	4584.8	4783.1	5043.5	5093.9	4907.4	4430.9	4365.7	3611.0
20°	4501.9	4516.7	4555.2	4661.7	4812.7	5076.1	5286.2	5241.9	4756.4	4688.4	3850.7
22.5°	4741.6	4750.5	4750.5	4833.4	4966.6	5161.9	5407.6	5558.6	5090.9	5016.9	4087.5
25°	5256.6	5238.9	5167.9	5126.4	5212.3	5372.1	5561.5	5836.8	5463.8	5363.2	4342.1
27.5°	5931.5	5990.7	5819.0	5620.7	5555.6	5647.3	5777.6	6082.4	5824.9	5718.4	4572.9
30°	6846.1	6822.4	6597.5	6313.3	6032.1	5999.6	6044.0	6292.6	6186.0	6085.4	4830.4
32.5°	7597.9	7642.3	7405.5	7059.2	6638.9	6440.6	6393.2	6544.2	6570.8	6505.7	5135.3
35°	8370.4	8417.7	8186.9	7802.1	7301.9	6970.4	6834.2	6855.0	7047.3	6964.5	5455.0
37.5°	9063.0	9104.4	8876.5	8482.9	7982.6	7577.2	7381.8	7222.0	7509.1	7435.1	5792.4
40°	9589.8	9595.8	9441.8	9089.6	8616.1	8195.8	7973.8	7660.0	7997.4	7947.1	6144.6
42.5°	9962.8	9974.6	9862.1	9560.2	9122.2	8731.5	8550.9	8178.0	8559.8	8515.4	6553.1
45°	10137.4	10158.1	10146.3	9868.1	9504.0	9166.6	9107.4	8728.5	9175.5	9134.0	7023.7
47.5°	9971.7	9971.7	10122.6	10084.1	9749.7	9524.7	9592.8	9302.7	9844.4	9805.9	7503.2
50°	9282.0	9290.9	9598.7	10039.7	9844.4	9794.1	10007.2	9865.1	10451.1	10474.8	8077.4
52.5°	7470.6	7455.8	8494.7	9341.2	9779.3	9915.4	10389.0	10439.3	11179.3	11250.3	8648.6
55°	5582.2	5573.4	6567.9	8104.0	9323.4	9853.3	10602.1	10951.4	11800.8	11845.2	9074.8
57.5°	4419.0	4395.3	4942.9	6532.3	8293.4	9575.0	10611.0	11049.0	12147.1	12224.1	9489.2
60°	3397.9	3377.2	3785.6	4860.0	6834.2	8835.1	10356.4	11054.9	12481.6	12617.7	10045.6
62.5°	2430.0	2453.7	2767.4	3486.7	5256.6	7790.3	10024.9	11137.8	13076.5	13230.4	10835.9
65°	1639.7	1627.9	1888.4	2373.8	3738.3	6384.3	9515.8	11312.5	14148.0	14417.3	11783.1
67.5°	1139.5	1148.4	1266.8	1545.0	2373.8	4901.5	8669.3	11410.1	15254.9	15465.1	12446.1
70°	822.8	834.7	899.8	1038.9	1450.3	3323.9	7328.5	10963.2	15553.9	15737.4	11984.3
72.5°	541.6	565.3	663.0	737.0	926.4	2080.8	5398.7	9444.8	14266.4	14402.5	10054.5
75°	293.0	298.9	426.2	550.5	660.0	1296.4	3220.3	6369.5	10673.1	10628.7	6630.0
77.5°	227.9	236.8	263.4	393.7	444.0	713.3	1272.7	2877.0	5055.4	4919.2	2261.3
80°	139.1	145.0	183.5	233.8	310.8	414.4	372.9	781.4	1027.1	961.9	331.5
82.5°	82.9	88.8	109.5	195.3	245.7	195.3	130.2	189.4	192.4	189.4	82.9
85°	14.8	14.8	77.0	136.2	130.2	56.2	77.0	62.2	56.2	59.2	17.8
87.5°	0.0	0.0	29.6	41.4	59.2	20.7	29.6	14.8	14.8	14.8	8.9
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°	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7	2379.7
2.5°	2400.4	2299.8	2092.6	1912.0	1731.5	1598.3	1497.7	1394.1	1358.6	1314.2	1290.5
5°	2441.9	2243.5	1832.1	1503.6	1225.4	1012.3	876.1	793.2	740.0	701.5	692.6
7.5°	2504.0	2199.2	1622.0	1178.0	873.1	660.0	547.6	491.3	461.7	444.0	438.1
10°	2578.0	2160.7	1414.8	917.5	615.6	464.7	402.5	378.9	367.0	361.1	358.1
12.5°	2681.6	2145.9	1240.2	707.4	464.7	381.8	349.3	334.5	325.6	316.7	313.7
15°	2817.8	2151.8	1080.3	547.6	384.8	340.4	313.7	298.9	287.1	278.2	278.2
17.5°	2959.8	2160.7	923.5	444.0	349.3	310.8	281.2	260.5	251.6	242.7	239.7
20°	3093.0	2157.7	772.5	378.9	316.7	278.2	248.6	227.9	213.1	204.2	204.2
22.5°	3220.3	2140.0	630.4	340.4	290.1	245.7	213.1	192.4	180.5	171.7	171.7
25°	3356.4	2104.4	515.0	310.8	257.5	216.1	183.5	162.8	153.9	145.0	145.0
27.5°	3463.0	2045.2	420.3	284.1	227.9	186.5	156.9	139.1	130.2	124.3	124.3
30°	3578.4	1959.4	349.3	254.5	198.3	159.8	133.2	118.4	109.5	106.6	106.6
32.5°	3705.7	1864.7	298.9	224.9	168.7	136.2	112.5	103.6	94.7	91.8	91.8
35°	3853.7	1781.8	269.3	195.3	148.0	115.4	97.7	88.8	82.9	82.9	82.9
37.5°	4022.4	1696.0	242.7	171.7	127.3	97.7	82.9	79.9	77.0	74.0	74.0
40°	4205.9	1604.2	219.0	151.0	109.5	82.9	71.0	71.0	68.1	68.1	68.1
42.5°	4413.1	1524.3	198.3	133.2	94.7	71.0	62.2	62.2	59.2	59.2	59.2
45°	4638.0	1450.3	180.5	118.4	82.9	62.2	56.2	53.3	50.3	50.3	50.3
47.5°	4904.4	1408.9	165.8	103.6	71.0	53.3	47.4	44.4	41.4	38.5	38.5
50°	5244.8	1426.6	151.0	85.8	62.2	44.4	38.5	35.5	32.6	29.6	29.6
52.5°	5514.2	1417.8	130.2	74.0	50.3	35.5	29.6	26.6	23.7	20.7	20.7
55°	5709.5	1382.2	112.5	62.2	38.5	29.6	23.7	17.8	14.8	14.8	14.8
57.5°	5901.9	1346.7	94.7	50.3	29.6	20.7	14.8	11.8	11.8	11.8	11.8
60°	6200.8	1296.4	82.9	41.4	23.7	14.8	8.9	8.9	5.9	5.9	5.9
62.5°	6564.9	1234.2	68.1	35.5	17.8	11.8	5.9	5.9	0.0	0.0	0.0
65°	6964.5	1124.7	56.2	26.6	14.8	8.9	5.9	0.0	0.0	0.0	0.0
67.5°	6872.7	902.7	47.4	17.8	11.8	5.9	3.0	0.0	0.0	0.0	0.0
70°	6079.5	609.7	38.5	14.8	8.9	5.9	3.0	0.0	0.0	0.0	0.0
72.5°	4762.4	361.1	26.6	11.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0
75°	3048.6	180.5	17.8	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	1021.1	88.8	11.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	145.0	29.6	5.9	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.6	11.8	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	3.0	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)