

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: P399966

Luminaire Tested: **ARCH-L-PA3-210-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399966
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-PA3-210-830-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 900mA 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: 18964 lumens
Efficiency: N/A
Efficacy: 89.9 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

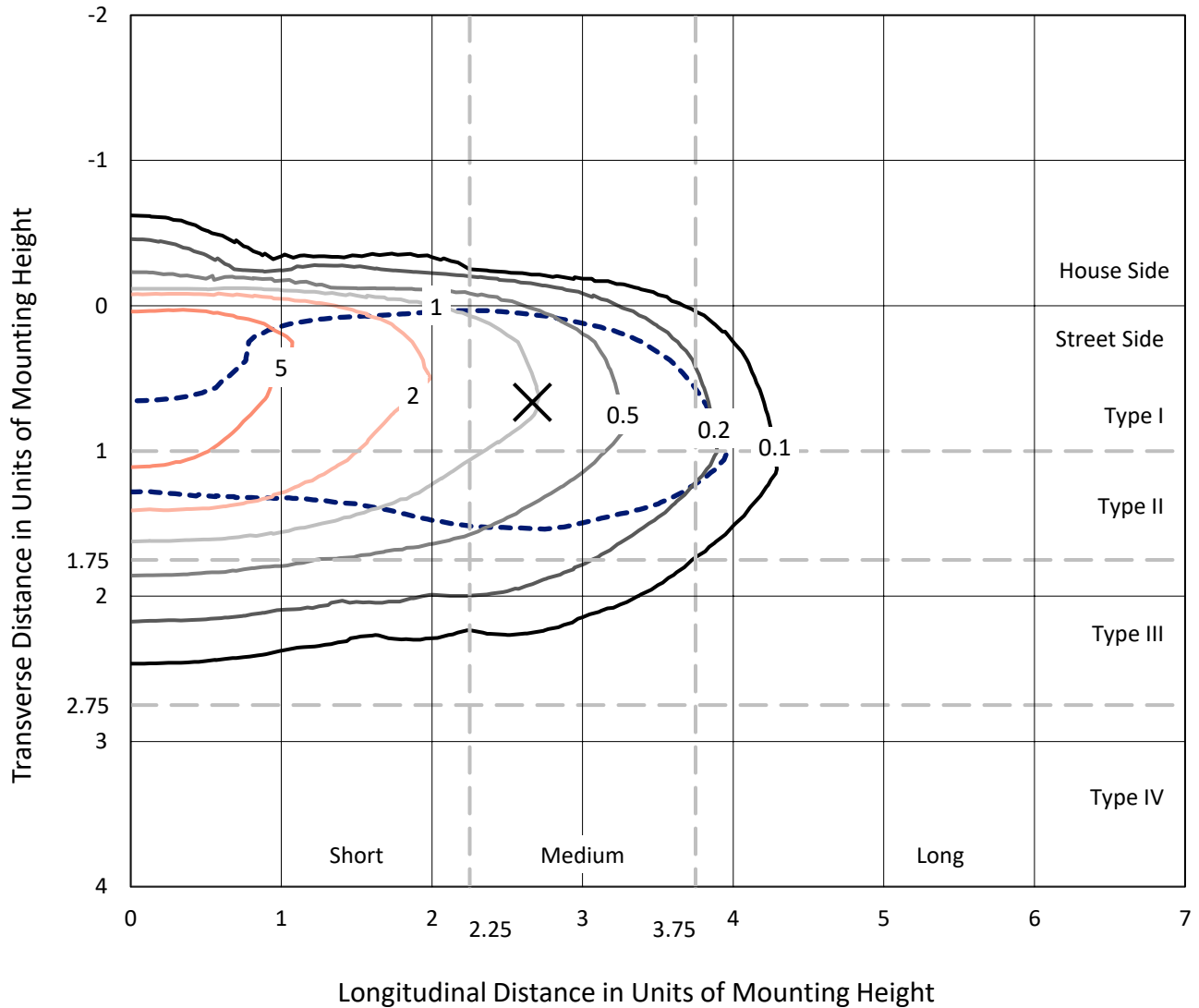
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

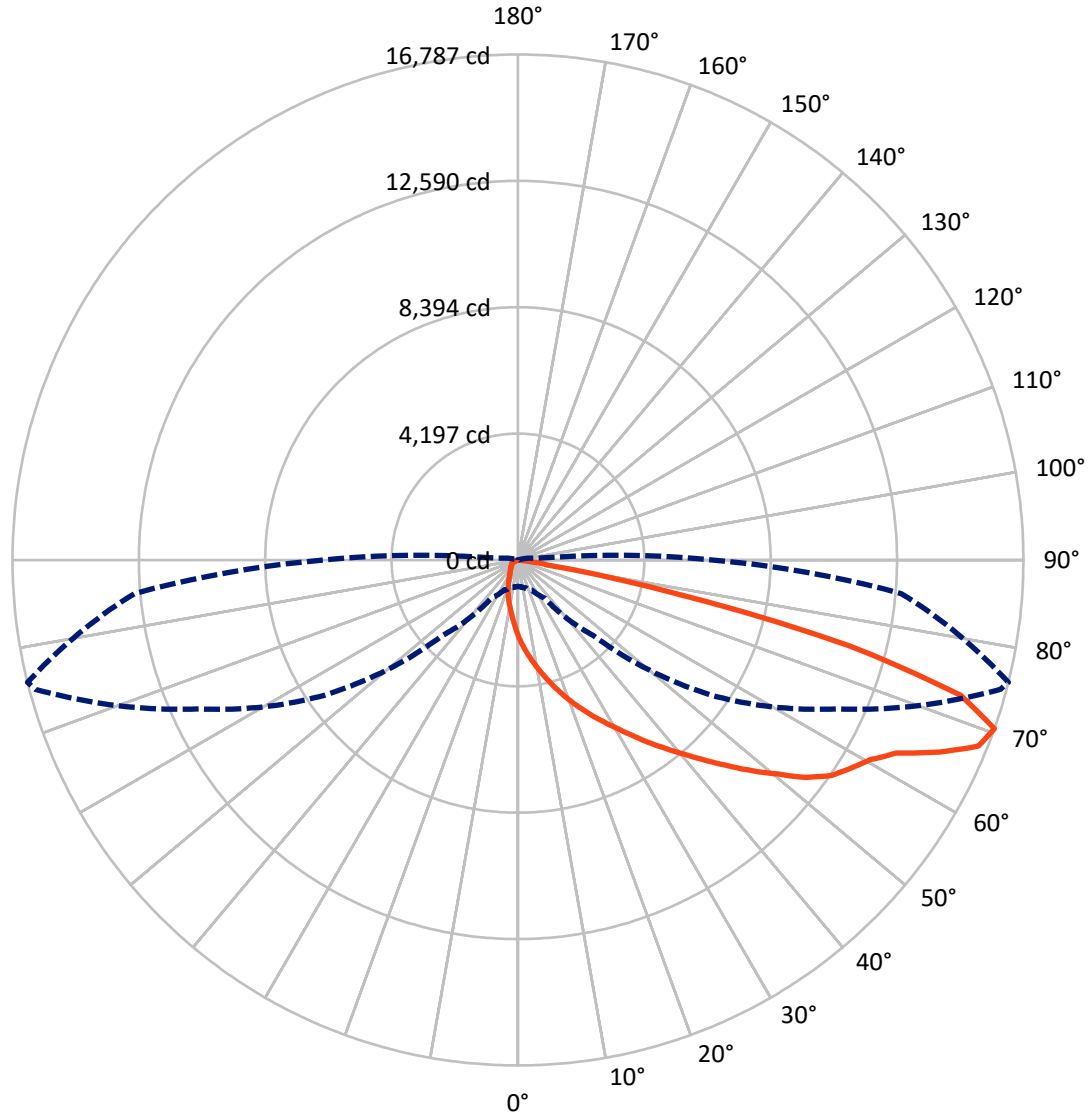
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	894.4	0.0	894.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	18069.6	0.0	18069.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	18964.0	0.0	18964.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.1	1.3
10°-20°	771.8	4.1
20°-30°	1437.4	7.6
30°-40°	2542.5	13.4
40°-50°	3888.0	20.5
50°-60°	4408.1	23.2
60°-70°	3778.8	19.9
70°-80°	1830.2	9.7
80°-90°	67.9	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°	18964.0	100.0
0°-180°	18964.0	100.0

Coefficient of Utilization

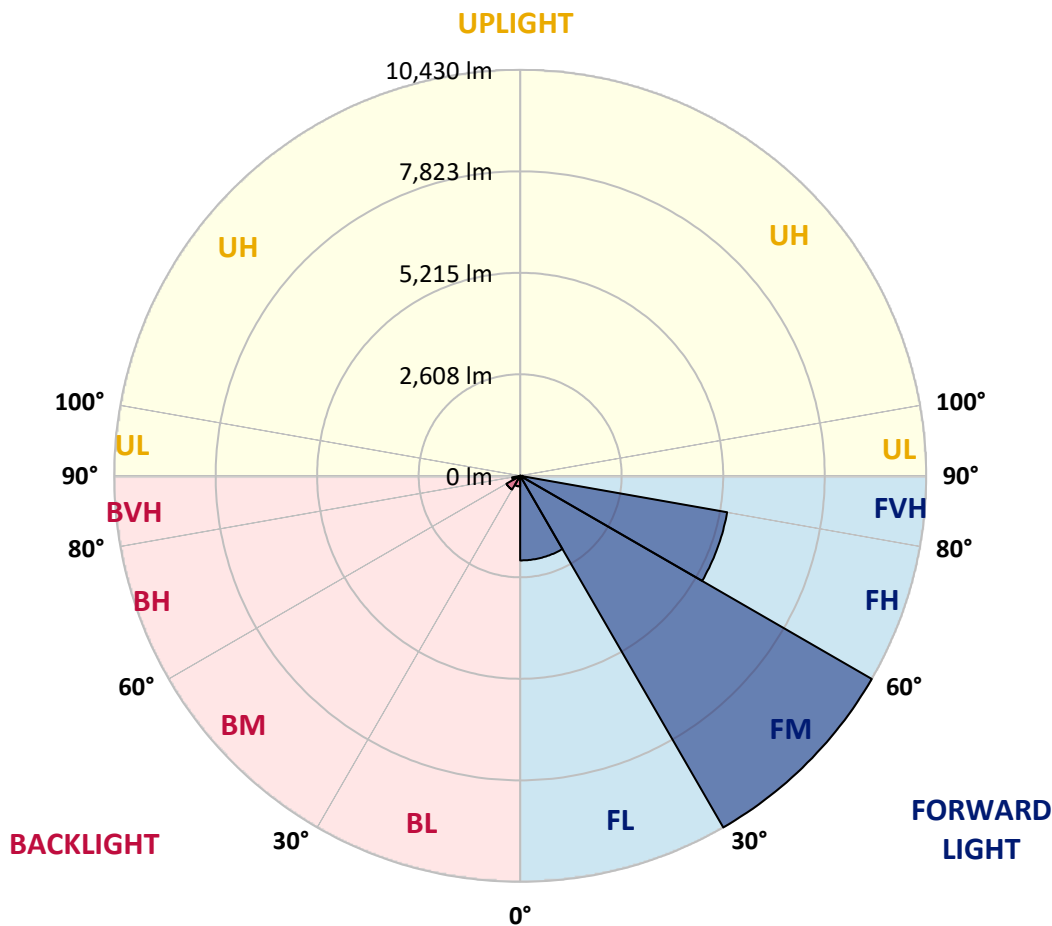


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2174.0	11.5			
FM (30°-60°)	10430.4	55.0			
FH (60°-80°)	5398.5	28.5			G3/7500
FVH (80°-90°)	66.7	0.4			G1/100
BL (0°-30°)	274.4	1.4	B1/500		
BM (30°-60°)	408.3	2.2	B1/1000		
BH (60°-80°)	210.6	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°	2538.5	2538.5	2538.5	2538.5	2538.5	2538.5	2538.5	2538.5	2538.5	2538.5	2538.5
2.5°	3469.9	3450.9	3432.0	3359.3	3293.0	3233.1	3119.4	2971.0	2838.4	2810.0	2655.3
5°	4076.0	4053.9	4025.5	3952.9	3867.7	3766.6	3599.3	3372.0	3138.3	3087.8	2800.5
7.5°	4486.5	4467.6	4426.5	4391.8	4306.5	4208.7	4022.4	3757.2	3435.1	3372.0	2967.8
10°	4767.5	4754.9	4748.5	4720.1	4657.0	4578.1	4391.8	4113.9	3735.1	3662.4	3144.7
12.5°	4868.5	4868.5	4900.1	4947.5	4956.9	4931.7	4761.2	4483.3	4050.8	3975.0	3353.0
15°	4732.8	4748.5	4818.0	4969.6	5127.4	5231.6	5124.3	4865.4	4398.1	4316.0	3599.3
17.5°	4694.9	4710.7	4758.0	4890.6	5102.2	5380.0	5433.7	5234.8	4726.4	4657.0	3851.9
20°	4802.2	4818.0	4859.1	4972.7	5133.7	5414.7	5638.9	5591.5	5073.7	5001.1	4107.6
22.5°	5058.0	5067.4	5067.4	5155.8	5297.9	5506.3	5768.4	5929.4	5430.5	5351.6	4360.2
25°	5607.3	5588.4	5512.6	5468.4	5560.0	5730.5	5932.5	6226.2	5828.3	5721.0	4631.7
27.5°	6327.2	6390.3	6207.2	5995.7	5926.2	6024.1	6163.0	6488.2	6213.5	6099.9	4878.0
30°	7302.8	7277.5	7037.6	6734.5	6434.5	6399.8	6447.2	6712.4	6598.7	6491.4	5152.7
32.5°	8104.7	8152.1	7899.5	7530.1	7081.8	6870.2	6819.7	6980.7	7009.2	6939.7	5477.9
35°	8928.8	8979.3	8733.0	8322.6	7789.0	7435.4	7290.2	7312.3	7517.5	7429.1	5818.9
37.5°	9667.6	9711.8	9468.7	9048.8	8515.2	8082.6	7874.3	7703.8	8010.0	7931.1	6178.8
40°	10229.6	10235.9	10071.7	9696.0	9190.8	8742.5	8505.7	8171.0	8531.0	8477.3	6554.5
42.5°	10627.4	10640.0	10520.1	10198.0	9730.7	9314.0	9121.4	8723.6	9130.9	9083.5	6990.2
45°	10813.7	10835.8	10823.2	10526.4	10138.0	9778.1	9715.0	9310.8	9787.6	9743.4	7492.2
47.5°	10636.9	10636.9	10797.9	10756.9	10400.1	10160.1	10232.7	9923.3	10501.1	10460.1	8003.7
50°	9901.2	9910.7	10239.1	10709.5	10501.1	10447.4	10674.8	10523.2	11148.4	11173.6	8616.2
52.5°	7969.0	7953.2	9061.4	9964.4	10431.7	10576.9	11082.1	11135.7	11925.0	12000.8	9225.6
55°	5954.6	5945.2	7006.0	8644.6	9945.4	10510.6	11309.4	11681.9	12588.1	12635.4	9680.2
57.5°	4713.8	4688.6	5272.7	6968.1	8846.7	10213.8	11318.8	11786.1	12957.5	13039.6	10122.2
60°	3624.6	3602.5	4038.2	5184.3	7290.2	9424.5	11047.3	11792.4	13314.3	13459.5	10715.8
62.5°	2592.1	2617.4	2952.1	3719.3	5607.3	8310.0	10693.7	11880.8	13948.9	14113.0	11558.8
65°	1749.1	1736.5	2014.3	2532.1	3987.6	6810.3	10150.7	12067.1	15091.8	15379.1	12569.1
67.5°	1215.6	1225.0	1351.3	1648.1	2532.1	5228.5	9247.7	12171.3	16272.6	16496.8	13276.4
70°	877.7	890.4	959.8	1108.2	1547.1	3545.6	7817.4	11694.6	16591.5	16787.3	12783.8
72.5°	577.8	603.0	707.2	786.2	988.2	2219.6	5758.9	10074.9	15218.1	15363.3	10725.3
75°	312.6	318.9	454.6	587.3	704.1	1382.9	3435.1	6794.5	11385.2	11337.8	7072.3
77.5°	243.1	252.6	281.0	419.9	473.6	760.9	1357.6	3068.9	5392.6	5247.4	2412.2
80°	148.4	154.7	195.8	249.4	331.5	442.0	397.8	833.5	1095.6	1026.1	353.6
82.5°	88.4	94.7	116.8	208.4	262.1	208.4	138.9	202.1	205.2	202.1	88.4
85°	15.8	15.8	82.1	145.2	138.9	60.0	82.1	66.3	60.0	63.1	18.9
87.5°	0.0	0.0	31.6	44.2	63.1	22.1	31.6	15.8	15.8	15.8	9.5
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°	2538.5	2538.5	2538.5	2538.5	2538.5	2538.5	2538.5	2538.5	2538.5	2538.5	2538.5
2.5°	2560.6	2453.2	2232.2	2039.6	1847.0	1704.9	1597.6	1487.1	1449.2	1401.8	1376.6
5°	2604.8	2393.2	1954.4	1603.9	1307.1	1079.8	934.6	846.2	789.3	748.3	738.8
7.5°	2671.1	2345.9	1730.2	1256.6	931.4	704.1	584.1	524.1	492.5	473.6	467.3
10°	2750.0	2304.8	1509.2	978.8	656.7	495.7	429.4	404.1	391.5	385.2	382.0
12.5°	2860.5	2289.0	1322.9	754.6	495.7	407.3	372.6	356.8	347.3	337.8	334.7
15°	3005.7	2295.3	1152.4	584.1	410.4	363.1	334.7	318.9	306.3	296.8	296.8
17.5°	3157.3	2304.8	985.1	473.6	372.6	331.5	299.9	277.8	268.4	258.9	255.7
20°	3299.4	2301.7	824.1	404.1	337.8	296.8	265.2	243.1	227.3	217.9	217.9
22.5°	3435.1	2282.7	672.5	363.1	309.4	262.1	227.3	205.2	192.6	183.1	183.1
25°	3580.4	2244.8	549.4	331.5	274.7	230.5	195.8	173.7	164.2	154.7	154.7
27.5°	3694.0	2181.7	448.3	303.1	243.1	198.9	167.3	148.4	138.9	132.6	132.6
30°	3817.2	2090.1	372.6	271.5	211.5	170.5	142.1	126.3	116.8	113.7	113.7
32.5°	3952.9	1989.1	318.9	240.0	180.0	145.2	120.0	110.5	101.0	97.9	97.9
35°	4110.8	1900.7	287.3	208.4	157.9	123.1	104.2	94.7	88.4	88.4	88.4
37.5°	4290.7	1809.1	258.9	183.1	135.8	104.2	88.4	85.2	82.1	78.9	78.9
40°	4486.5	1711.2	233.6	161.0	116.8	88.4	75.8	75.8	72.6	72.6	72.6
42.5°	4707.5	1626.0	211.5	142.1	101.0	75.8	66.3	66.3	63.1	63.1	63.1
45°	4947.5	1547.1	192.6	126.3	88.4	66.3	60.0	56.8	53.7	53.7	53.7
47.5°	5231.6	1502.9	176.8	110.5	75.8	56.8	50.5	47.4	44.2	41.0	41.0
50°	5594.7	1521.8	161.0	91.6	66.3	47.4	41.0	37.9	34.7	31.6	31.6
52.5°	5882.0	1512.3	138.9	78.9	53.7	37.9	31.6	28.4	25.3	22.1	22.1
55°	6090.4	1474.4	120.0	66.3	41.0	31.6	25.3	18.9	15.8	15.8	15.8
57.5°	6295.6	1436.6	101.0	53.7	31.6	22.1	15.8	12.6	12.6	12.6	12.6
60°	6614.5	1382.9	88.4	44.2	25.3	15.8	9.5	9.5	6.3	6.3	6.3
62.5°	7002.8	1316.6	72.6	37.9	18.9	12.6	6.3	6.3	0.0	0.0	0.0
65°	7429.1	1199.8	60.0	28.4	15.8	9.5	6.3	0.0	0.0	0.0	0.0
67.5°	7331.2	963.0	50.5	18.9	12.6	6.3	3.2	0.0	0.0	0.0	0.0
70°	6485.1	650.4	41.0	15.8	9.5	6.3	3.2	0.0	0.0	0.0	0.0
72.5°	5080.1	385.2	28.4	12.6	6.3	3.2	0.0	0.0	0.0	0.0	0.0
75°	3252.0	192.6	18.9	9.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0
77.5°	1089.3	94.7	12.6	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	154.7	31.6	6.3	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	34.7	12.6	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.6	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.3	3.2	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)