

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: P399318

Luminaire Tested: **ARCH-L-PA3-120-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399318
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-PA3-120-830-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 530mA 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: 12499 lumens
Efficiency: N/A
Efficacy: 101.6 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

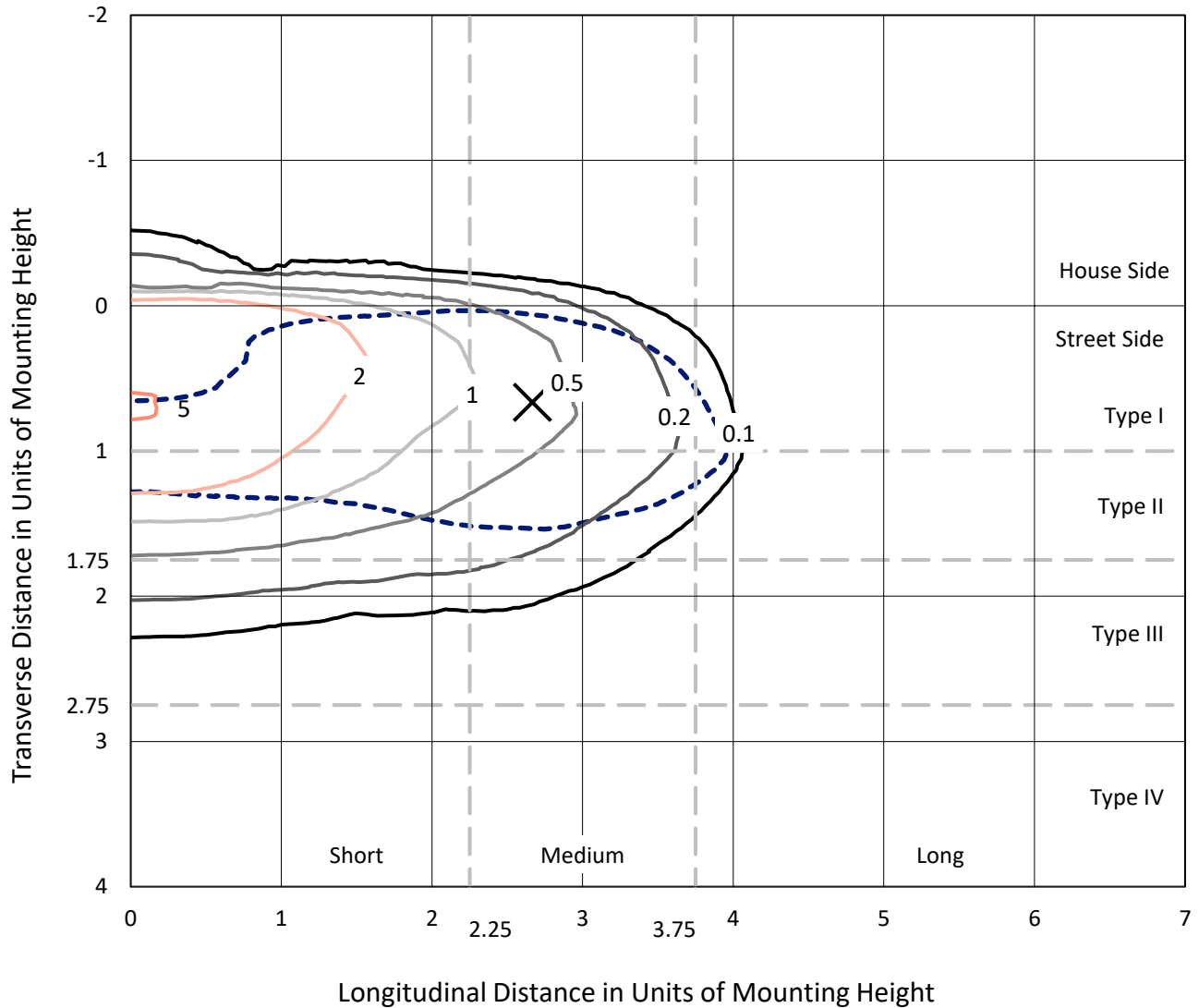
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

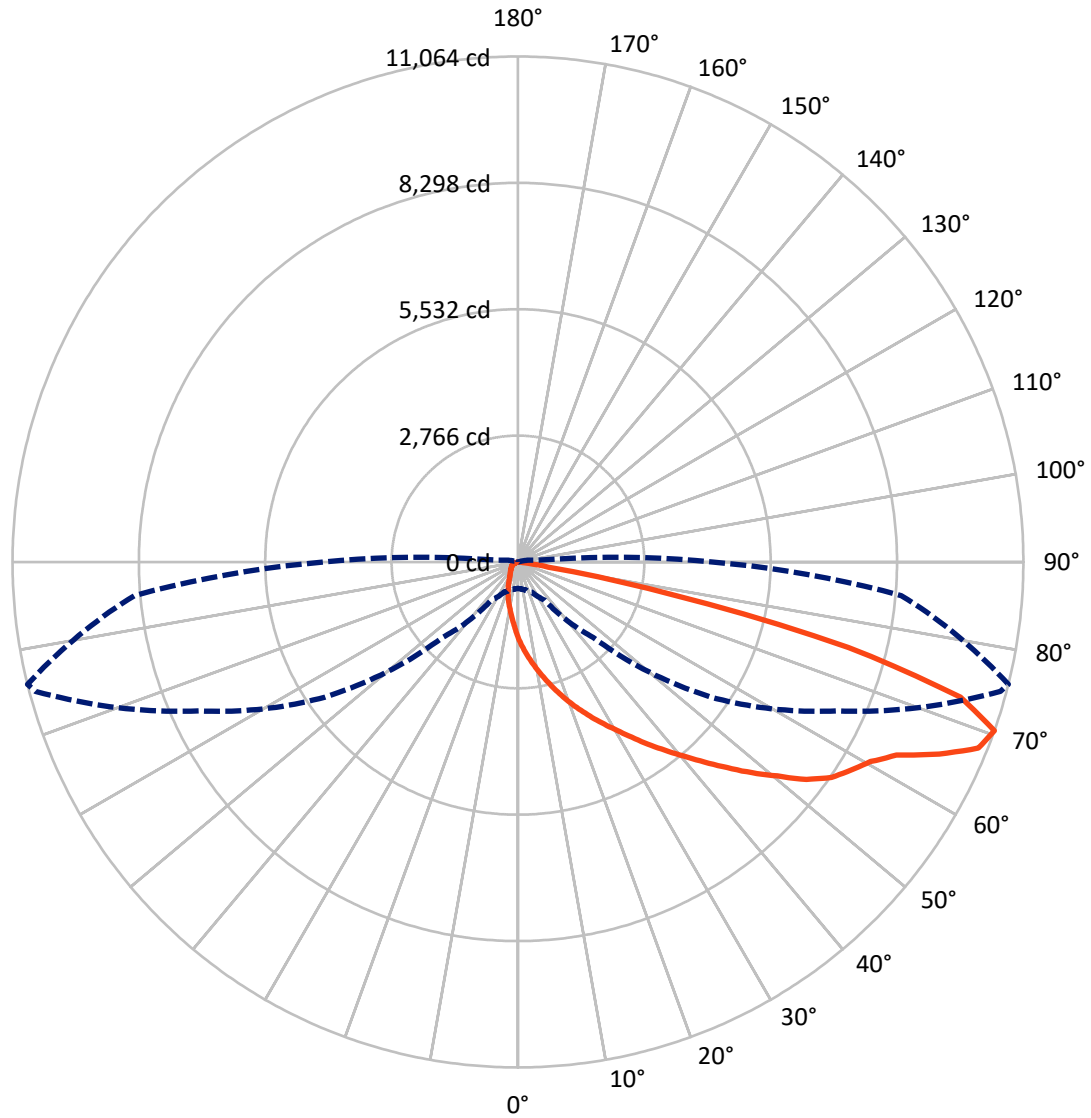
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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
House Side	Lumens	589.5	0.0	589.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	11909.5	0.0	11909.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	12499.0	0.0	12499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.6	1.3
10°-20°	508.7	4.1
20°-30°	947.4	7.6
30°-40°	1675.7	13.4
40°-50°	2562.6	20.5
50°-60°	2905.3	23.2
60°-70°	2490.6	19.9
70°-80°	1206.3	9.7
80°-90°	44.7	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°	12499.0	100.0
0°-180°	12499.0	100.0

Coefficient of Utilization

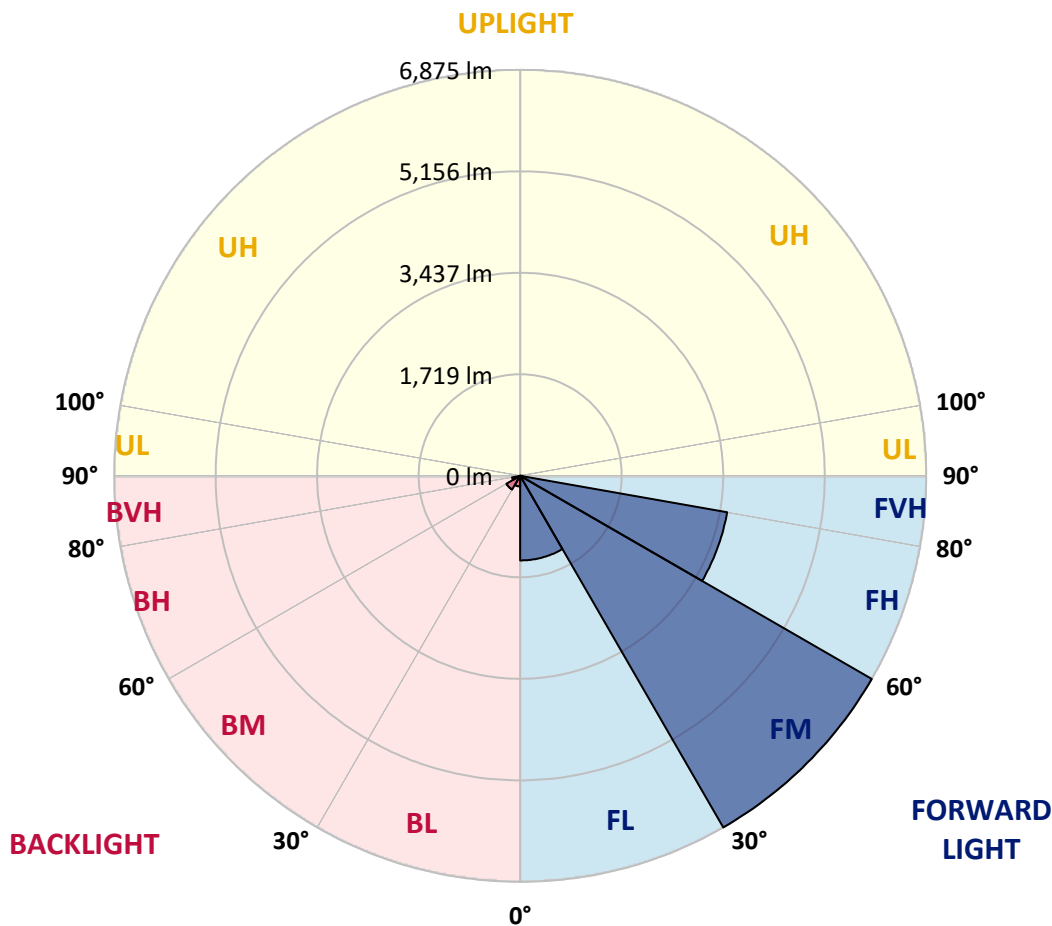


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1432.9	11.5			
FM (30°-60°)	6874.6	55.0			
FH (60°-80°)	3558.1	28.5			G2/5000
FVH (80°-90°)	44.0	0.4			G1/100
BL (0°-30°)	180.8	1.4	B1/500		
BM (30°-60°)	269.1	2.2	B1/1000		
BH (60°-80°)	138.8	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°	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1
2.5°	2286.9	2274.5	2262.0	2214.1	2170.4	2130.9	2056.0	1958.2	1870.8	1852.0	1750.1
5°	2686.5	2671.9	2653.2	2605.3	2549.1	2482.6	2372.3	2222.4	2068.4	2035.2	1845.8
7.5°	2957.0	2944.5	2917.5	2894.6	2838.4	2773.9	2651.1	2476.3	2264.1	2222.4	1956.1
10°	3142.2	3133.9	3129.7	3111.0	3069.4	3017.4	2894.6	2711.5	2461.7	2413.9	2072.6
12.5°	3208.8	3208.8	3229.6	3260.8	3267.1	3250.4	3138.0	2954.9	2669.8	2619.9	2210.0
15°	3119.3	3129.7	3175.5	3275.4	3379.4	3448.1	3377.4	3206.7	2898.7	2844.6	2372.3
17.5°	3094.3	3104.8	3136.0	3223.4	3362.8	3545.9	3581.3	3450.2	3115.2	3069.4	2538.7
20°	3165.1	3175.5	3202.6	3277.5	3383.6	3568.8	3716.5	3685.3	3344.1	3296.2	2707.3
22.5°	3333.7	3339.9	3339.9	3398.2	3491.8	3629.1	3801.9	3908.0	3579.2	3527.2	2873.8
25°	3695.7	3683.3	3633.3	3604.2	3664.5	3776.9	3910.1	4103.6	3841.4	3770.7	3052.7
27.5°	4170.2	4211.8	4091.1	3951.7	3905.9	3970.4	4062.0	4276.3	4095.3	4020.4	3215.0
30°	4813.2	4796.6	4638.4	4438.6	4240.9	4218.1	4249.3	4424.1	4349.2	4278.4	3396.1
32.5°	5341.8	5373.0	5206.5	4963.0	4667.5	4528.1	4494.8	4600.9	4619.7	4573.9	3610.4
35°	5884.9	5918.2	5755.9	5485.3	5133.7	4900.6	4804.9	4819.4	4954.7	4896.4	3835.2
37.5°	6371.8	6401.0	6240.7	5964.0	5612.3	5327.2	5189.9	5077.5	5279.3	5227.3	4072.4
40°	6742.2	6746.4	6638.2	6390.6	6057.6	5762.1	5606.0	5385.5	5622.7	5587.3	4320.0
42.5°	7004.4	7012.7	6933.7	6721.4	6413.4	6138.8	6011.8	5749.6	6018.1	5986.8	4607.2
45°	7127.2	7141.8	7133.4	6937.8	6681.9	6444.7	6403.0	6136.7	6450.9	6421.8	4938.1
47.5°	7010.7	7010.7	7116.8	7089.7	6854.6	6696.4	6744.3	6540.4	6921.2	6894.1	5275.2
50°	6525.8	6532.1	6748.5	7058.5	6921.2	6885.8	7035.6	6935.8	7347.8	7364.4	5678.9
52.5°	5252.3	5241.9	5972.3	6567.4	6875.4	6971.1	7304.1	7339.5	7859.7	7909.6	6080.5
55°	3924.6	3918.4	4617.6	5697.6	6554.9	6927.4	7453.9	7699.5	8296.7	8327.9	6380.1
57.5°	3106.8	3090.2	3475.2	4592.6	5830.8	6731.8	7460.2	7768.1	8540.2	8594.3	6671.5
60°	2388.9	2374.3	2661.5	3416.9	4804.9	6211.6	7281.2	7772.3	8775.3	8871.0	7062.7
62.5°	1708.4	1725.1	1945.7	2451.3	3695.7	5477.0	7048.1	7830.6	9193.6	9301.8	7618.3
65°	1152.8	1144.5	1327.6	1668.9	2628.2	4488.6	6690.2	7953.3	9946.9	10136.2	8284.2
67.5°	801.2	807.4	890.6	1086.2	1668.9	3446.0	6095.1	8022.0	10725.1	10872.9	8750.3
70°	578.5	586.8	632.6	730.4	1019.7	2336.9	5152.4	7707.8	10935.3	11064.3	8425.7
72.5°	380.8	397.5	466.1	518.2	651.3	1462.9	3795.6	6640.3	10030.1	10125.8	7068.9
75°	206.0	210.2	299.7	387.1	464.0	911.4	2264.1	4478.2	7503.9	7472.6	4661.3
77.5°	160.2	166.5	185.2	276.8	312.1	501.5	894.8	2022.7	3554.2	3458.5	1589.8
80°	97.8	102.0	129.0	164.4	218.5	291.3	262.2	549.4	722.1	676.3	233.1
82.5°	58.3	62.4	77.0	137.3	172.7	137.3	91.6	133.2	135.3	133.2	58.3
85°	10.4	10.4	54.1	95.7	91.6	39.5	54.1	43.7	39.5	41.6	12.5
87.5°	0.0	0.0	20.8	29.1	41.6	14.6	20.8	10.4	10.4	10.4	6.2
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°	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1	1673.1
2.5°	1687.6	1616.9	1471.2	1344.3	1217.3	1123.7	1053.0	980.1	955.1	923.9	907.3
5°	1716.8	1577.3	1288.1	1057.1	861.5	711.7	616.0	557.7	520.2	493.2	486.9
7.5°	1760.5	1546.1	1140.4	828.2	613.9	464.0	385.0	345.4	324.6	312.1	308.0
10°	1812.5	1519.1	994.7	645.1	432.8	326.7	283.0	266.4	258.0	253.9	251.8
12.5°	1885.3	1508.7	871.9	497.3	326.7	268.4	245.6	235.1	228.9	222.7	220.6
15°	1981.0	1512.8	759.5	385.0	270.5	239.3	220.6	210.2	201.9	195.6	195.6
17.5°	2080.9	1519.1	649.3	312.1	245.6	218.5	197.7	183.1	176.9	170.6	168.6
20°	2174.6	1517.0	543.1	266.4	222.7	195.6	174.8	160.2	149.8	143.6	143.6
22.5°	2264.1	1504.5	443.2	239.3	203.9	172.7	149.8	135.3	126.9	120.7	120.7
25°	2359.8	1479.5	362.1	218.5	181.0	151.9	129.0	114.5	108.2	102.0	102.0
27.5°	2434.7	1437.9	295.5	199.8	160.2	131.1	110.3	97.8	91.6	87.4	87.4
30°	2515.8	1377.6	245.6	179.0	139.4	112.4	93.6	83.2	77.0	74.9	74.9
32.5°	2605.3	1311.0	210.2	158.2	118.6	95.7	79.1	72.8	66.6	64.5	64.5
35°	2709.4	1252.7	189.4	137.3	104.0	81.2	68.7	62.4	58.3	58.3	58.3
37.5°	2828.0	1192.4	170.6	120.7	89.5	68.7	58.3	56.2	54.1	52.0	52.0
40°	2957.0	1127.9	154.0	106.1	77.0	58.3	49.9	49.9	47.9	47.9	47.9
42.5°	3102.7	1071.7	139.4	93.6	66.6	49.9	43.7	43.7	41.6	41.6	41.6
45°	3260.8	1019.7	126.9	83.2	58.3	43.7	39.5	37.5	35.4	35.4	35.4
47.5°	3448.1	990.5	116.5	72.8	49.9	37.5	33.3	31.2	29.1	27.1	27.1
50°	3687.4	1003.0	106.1	60.3	43.7	31.2	27.1	25.0	22.9	20.8	20.8
52.5°	3876.8	996.8	91.6	52.0	35.4	25.0	20.8	18.7	16.6	14.6	14.6
55°	4014.1	971.8	79.1	43.7	27.1	20.8	16.6	12.5	10.4	10.4	10.4
57.5°	4149.4	946.8	66.6	35.4	20.8	14.6	10.4	8.3	8.3	8.3	8.3
60°	4359.6	911.4	58.3	29.1	16.6	10.4	6.2	6.2	4.2	4.2	4.2
62.5°	4615.5	867.7	47.9	25.0	12.5	8.3	4.2	4.2	0.0	0.0	0.0
65°	4896.4	790.8	39.5	18.7	10.4	6.2	4.2	0.0	0.0	0.0	0.0
67.5°	4831.9	634.7	33.3	12.5	8.3	4.2	2.1	0.0	0.0	0.0	0.0
70°	4274.2	428.7	27.1	10.4	6.2	4.2	2.1	0.0	0.0	0.0	0.0
72.5°	3348.2	253.9	18.7	8.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0
75°	2143.4	126.9	12.5	6.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	717.9	62.4	8.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	102.0	20.8	4.2	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.9	8.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	2.1	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)