

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: P400533

Luminaire Tested: **ARCH-L-PA3-90-827-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400533
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-PA3-90-827-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 400mA 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: 9115 lumens
Efficiency: N/A
Efficacy: 98.0 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

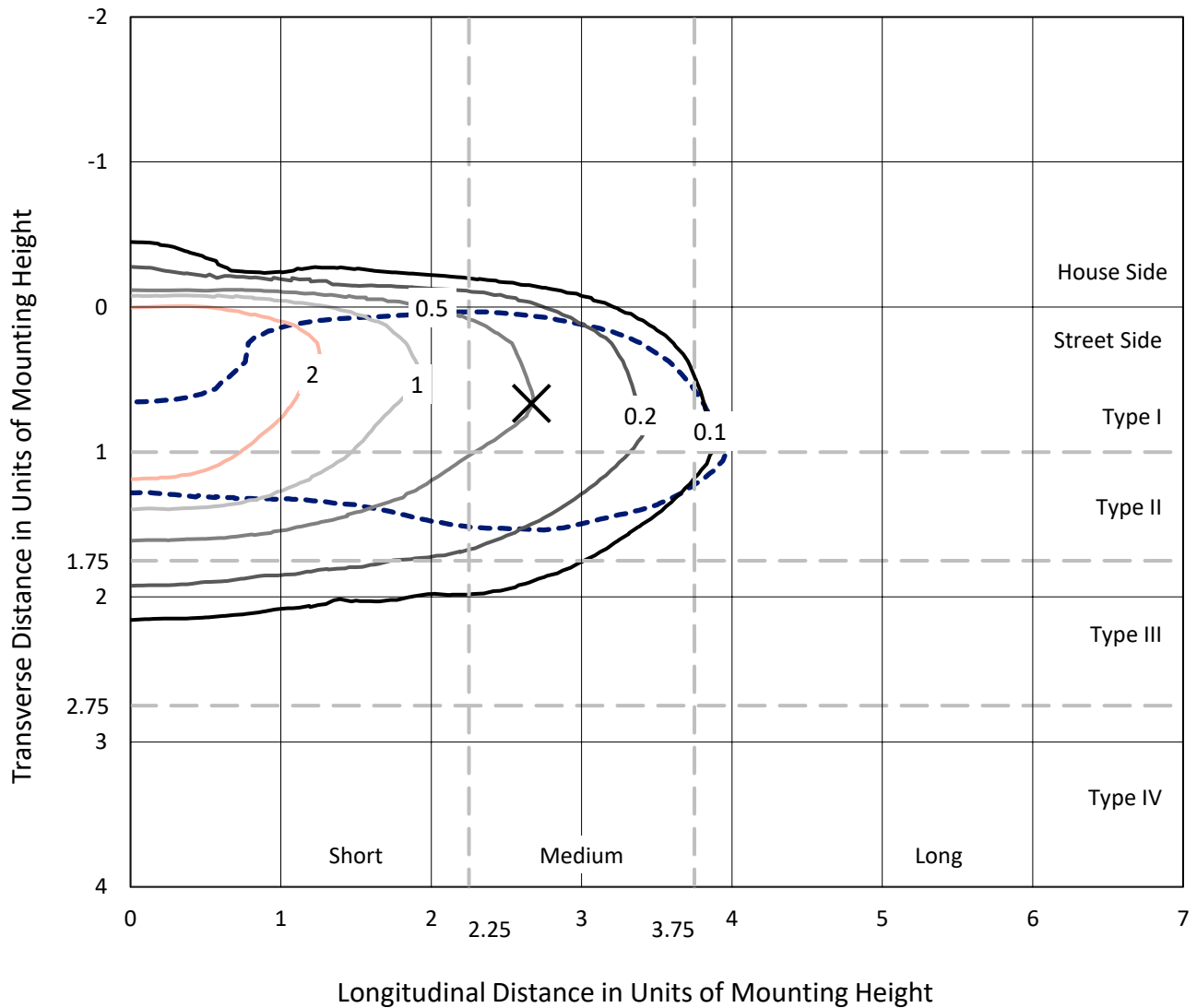
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

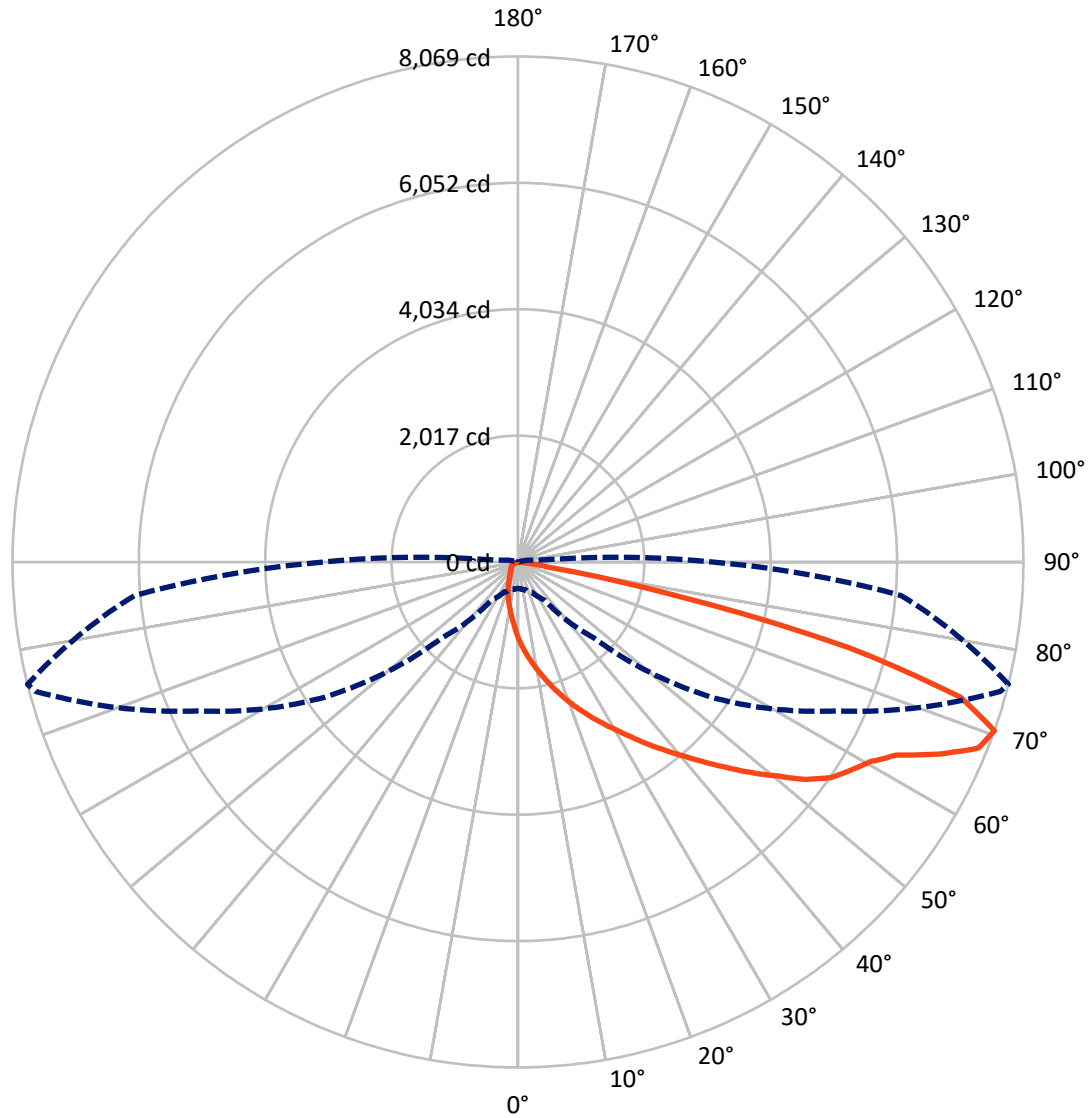
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	429.9	0.0	429.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	8685.1	0.0	8685.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	9115.0	0.0	9115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	1.3
10°-20°	371.0	4.1
20°-30°	690.9	7.6
30°-40°	1222.0	13.4
40°-50°	1868.8	20.5
50°-60°	2118.8	23.2
60°-70°	1816.3	19.9
70°-80°	879.7	9.7
80°-90°	32.6	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°	9115.0	100.0
0°-180°	9115.0	100.0

Coefficient of Utilization



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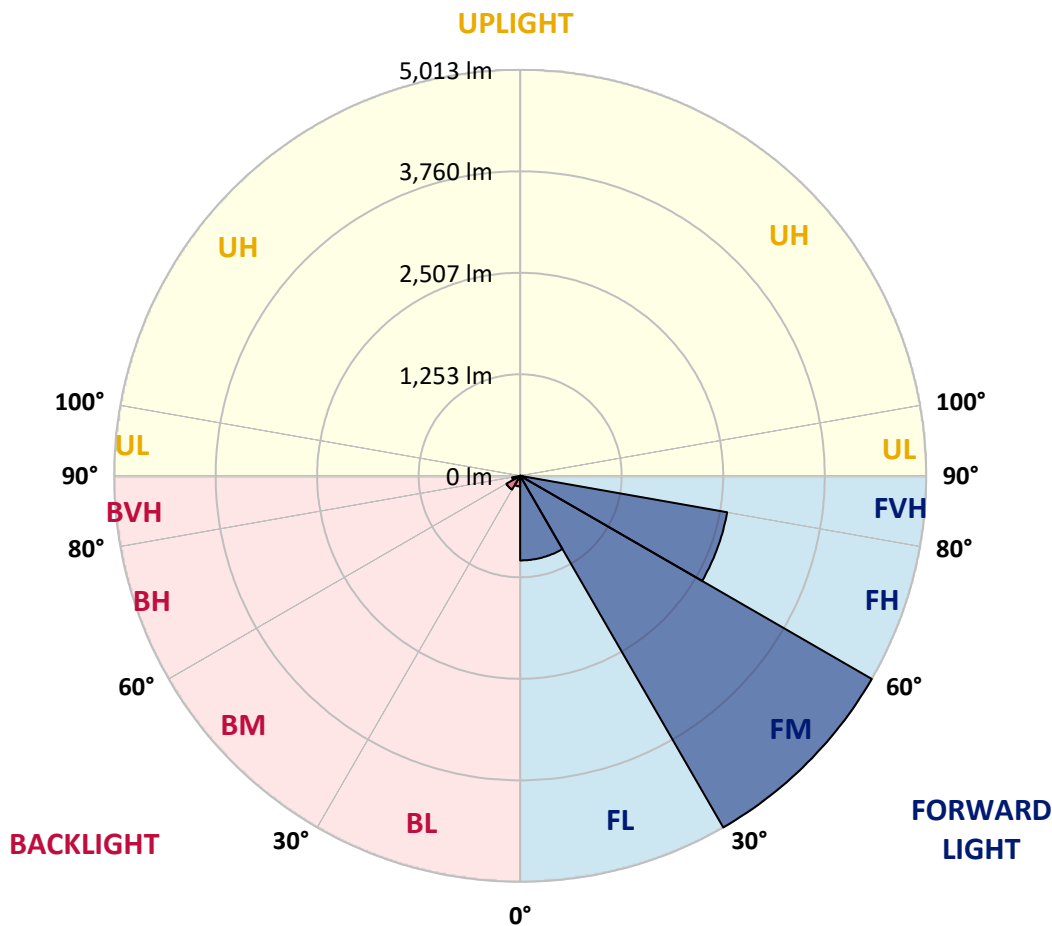
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.9	11.5			
FM (30°-60°)	5013.3	55.0			
FH (60°-80°)	2594.8	28.5			G2/5000
FVH (80°-90°)	32.1	0.4			G1/100
BL (0°-30°)	131.9	1.4	B1/500		
BM (30°-60°)	196.2	2.2	B0/220		
BH (60°-80°)	101.2	1.1	B0/110		G0/110
BVH (80°-90°)	0.6	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°	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1
2.5°	1667.8	1658.7	1649.6	1614.7	1582.8	1554.0	1499.3	1428.0	1364.3	1350.6	1276.3
5°	1959.1	1948.5	1934.9	1900.0	1859.0	1810.4	1730.0	1620.7	1508.4	1484.2	1346.1
7.5°	2156.4	2147.3	2127.6	2110.9	2069.9	2022.9	1933.3	1805.9	1651.1	1620.7	1426.5
10°	2291.5	2285.4	2282.4	2268.7	2238.4	2200.4	2110.9	1977.4	1795.2	1760.3	1511.5
12.5°	2340.0	2340.0	2355.2	2378.0	2382.5	2370.4	2288.4	2154.9	1947.0	1910.6	1611.6
15°	2274.8	2282.4	2315.8	2388.6	2464.5	2514.6	2463.0	2338.5	2113.9	2074.5	1730.0
17.5°	2256.6	2264.2	2286.9	2350.7	2452.3	2585.9	2611.7	2516.1	2271.8	2238.4	1851.4
20°	2308.2	2315.8	2335.5	2390.1	2467.5	2602.6	2710.3	2687.6	2438.7	2403.8	1974.3
22.5°	2431.1	2435.6	2435.6	2478.1	2546.4	2646.6	2772.5	2849.9	2610.2	2572.2	2095.7
25°	2695.1	2686.0	2649.6	2628.4	2672.4	2754.3	2851.5	2992.6	2801.4	2749.8	2226.2
27.5°	3041.1	3071.5	2983.5	2881.8	2848.4	2895.5	2962.2	3118.5	2986.5	2931.9	2344.6
30°	3510.1	3497.9	3382.6	3236.9	3092.7	3076.1	3098.8	3226.3	3171.7	3120.1	2476.6
32.5°	3895.5	3918.3	3796.9	3619.3	3403.8	3302.2	3277.9	3355.3	3368.9	3335.6	2632.9
35°	4291.6	4315.9	4197.5	4000.2	3743.8	3573.8	3504.0	3514.6	3613.3	3570.8	2796.8
37.5°	4646.7	4667.9	4551.1	4349.3	4092.8	3884.9	3784.7	3702.8	3850.0	3812.1	2969.8
40°	4916.8	4919.9	4840.9	4660.4	4417.6	4202.1	4088.2	3927.4	4100.4	4074.6	3150.4
42.5°	5108.0	5114.1	5056.4	4901.7	4677.1	4476.7	4384.2	4193.0	4388.7	4366.0	3359.8
45°	5197.6	5208.2	5202.1	5059.5	4872.8	4699.8	4669.5	4475.2	4704.4	4683.1	3601.1
47.5°	5112.6	5112.6	5190.0	5170.3	4998.8	4883.4	4918.3	4769.6	5047.3	5027.6	3847.0
50°	4759.0	4763.6	4921.4	5147.5	5047.3	5021.5	5130.8	5058.0	5358.4	5370.6	4141.4
52.5°	3830.3	3822.7	4355.3	4789.4	5013.9	5083.8	5326.6	5352.4	5731.7	5768.2	4434.2
55°	2862.1	2857.5	3367.4	4155.0	4780.2	5051.9	5435.8	5614.9	6050.4	6073.2	4652.8
57.5°	2265.7	2253.5	2534.3	3349.2	4252.1	4909.2	5440.4	5665.0	6228.0	6267.4	4865.2
60°	1742.1	1731.5	1940.9	2491.8	3504.0	4529.9	5309.9	5668.0	6399.5	6469.3	5150.5
62.5°	1245.9	1258.0	1418.9	1787.7	2695.1	3994.2	5139.9	5710.5	6704.5	6783.4	5555.7
65°	840.7	834.6	968.2	1217.1	1916.7	3273.3	4878.9	5800.0	7253.8	7391.9	6041.3
67.5°	584.3	588.8	649.5	792.2	1217.1	2513.0	4444.9	5850.1	7821.4	7929.1	6381.3
70°	421.9	427.9	461.3	532.7	743.6	1704.2	3757.4	5621.0	7974.7	8068.8	6144.5
72.5°	277.7	289.8	339.9	377.9	475.0	1066.8	2768.0	4842.5	7314.5	7384.3	5155.1
75°	150.2	153.3	218.5	282.3	338.4	664.7	1651.1	3265.7	5472.2	5449.5	3399.3
77.5°	116.9	121.4	135.1	201.8	227.6	365.7	652.5	1475.0	2592.0	2522.1	1159.4
80°	71.3	74.4	94.1	119.9	159.3	212.5	191.2	400.6	526.6	493.2	170.0
82.5°	42.5	45.5	56.1	100.2	126.0	100.2	66.8	97.1	98.6	97.1	42.5
85°	7.6	7.6	39.5	69.8	66.8	28.8	39.5	31.9	28.8	30.4	9.1
87.5°	0.0	0.0	15.2	21.2	30.4	10.6	15.2	7.6	7.6	7.6	4.6
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°	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1	1220.1
2.5°	1230.7	1179.1	1072.9	980.3	887.8	819.5	767.9	714.8	696.6	673.8	661.6
5°	1252.0	1150.3	939.4	770.9	628.3	519.0	449.2	406.7	379.4	359.7	355.1
7.5°	1283.8	1127.5	831.6	604.0	447.7	338.4	280.7	251.9	236.7	227.6	224.6
10°	1321.8	1107.8	725.4	470.4	315.6	238.3	206.4	194.2	188.2	185.1	183.6
12.5°	1374.9	1100.2	635.8	362.7	238.3	195.8	179.1	171.5	166.9	162.4	160.9
15°	1444.7	1103.3	553.9	280.7	197.3	174.5	160.9	153.3	147.2	142.6	142.6
17.5°	1517.5	1107.8	473.5	227.6	179.1	159.3	144.2	133.5	129.0	124.4	122.9
20°	1585.8	1106.3	396.1	194.2	162.4	142.6	127.5	116.9	109.3	104.7	104.7
22.5°	1651.1	1097.2	323.2	174.5	148.7	126.0	109.3	98.6	92.6	88.0	88.0
25°	1720.9	1079.0	264.1	159.3	132.0	110.8	94.1	83.5	78.9	74.4	74.4
27.5°	1775.5	1048.6	215.5	145.7	116.9	95.6	80.4	71.3	66.8	63.7	63.7
30°	1834.7	1004.6	179.1	130.5	101.7	81.9	68.3	60.7	56.1	54.6	54.6
32.5°	1900.0	956.0	153.3	115.3	86.5	69.8	57.7	53.1	48.6	47.0	47.0
35°	1975.8	913.6	138.1	100.2	75.9	59.2	50.1	45.5	42.5	42.5	42.5
37.5°	2062.3	869.5	124.4	88.0	65.3	50.1	42.5	41.0	39.5	37.9	37.9
40°	2156.4	822.5	112.3	77.4	56.1	42.5	36.4	36.4	34.9	34.9	34.9
42.5°	2262.7	781.5	101.7	68.3	48.6	36.4	31.9	31.9	30.4	30.4	30.4
45°	2378.0	743.6	92.6	60.7	42.5	31.9	28.8	27.3	25.8	25.8	25.8
47.5°	2514.6	722.3	85.0	53.1	36.4	27.3	24.3	22.8	21.2	19.7	19.7
50°	2689.1	731.5	77.4	44.0	31.9	22.8	19.7	18.2	16.7	15.2	15.2
52.5°	2827.2	726.9	66.8	37.9	25.8	18.2	15.2	13.7	12.1	10.6	10.6
55°	2927.3	708.7	57.7	31.9	19.7	15.2	12.1	9.1	7.6	7.6	7.6
57.5°	3026.0	690.5	48.6	25.8	15.2	10.6	7.6	6.1	6.1	6.1	6.1
60°	3179.2	664.7	42.5	21.2	12.1	7.6	4.6	4.6	3.0	3.0	3.0
62.5°	3365.9	632.8	34.9	18.2	9.1	6.1	3.0	3.0	0.0	0.0	0.0
65°	3570.8	576.7	28.8	13.7	7.6	4.6	3.0	0.0	0.0	0.0	0.0
67.5°	3523.7	462.8	24.3	9.1	6.1	3.0	1.5	0.0	0.0	0.0	0.0
70°	3117.0	312.6	19.7	7.6	4.6	3.0	1.5	0.0	0.0	0.0	0.0
72.5°	2441.7	185.1	13.7	6.1	3.0	1.5	0.0	0.0	0.0	0.0	0.0
75°	1563.1	92.6	9.1	4.6	3.0	1.5	0.0	0.0	0.0	0.0	0.0
77.5°	523.6	45.5	6.1	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	74.4	15.2	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.7	6.1	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.1	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	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)