

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: P400542

Luminaire Tested: **ARCH-L-PA3-90-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400542
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-PA3-90-830-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 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: 9853 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

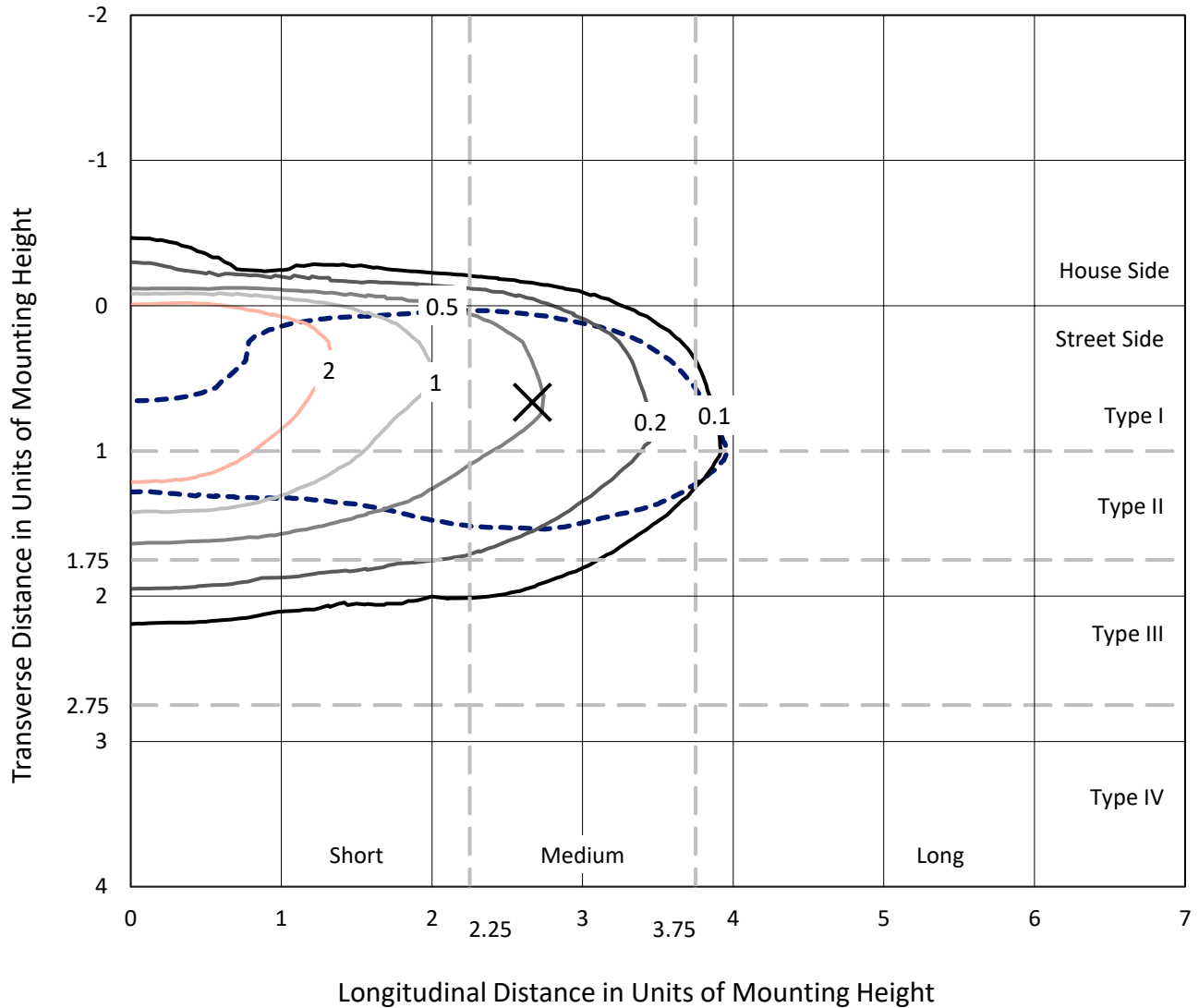
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

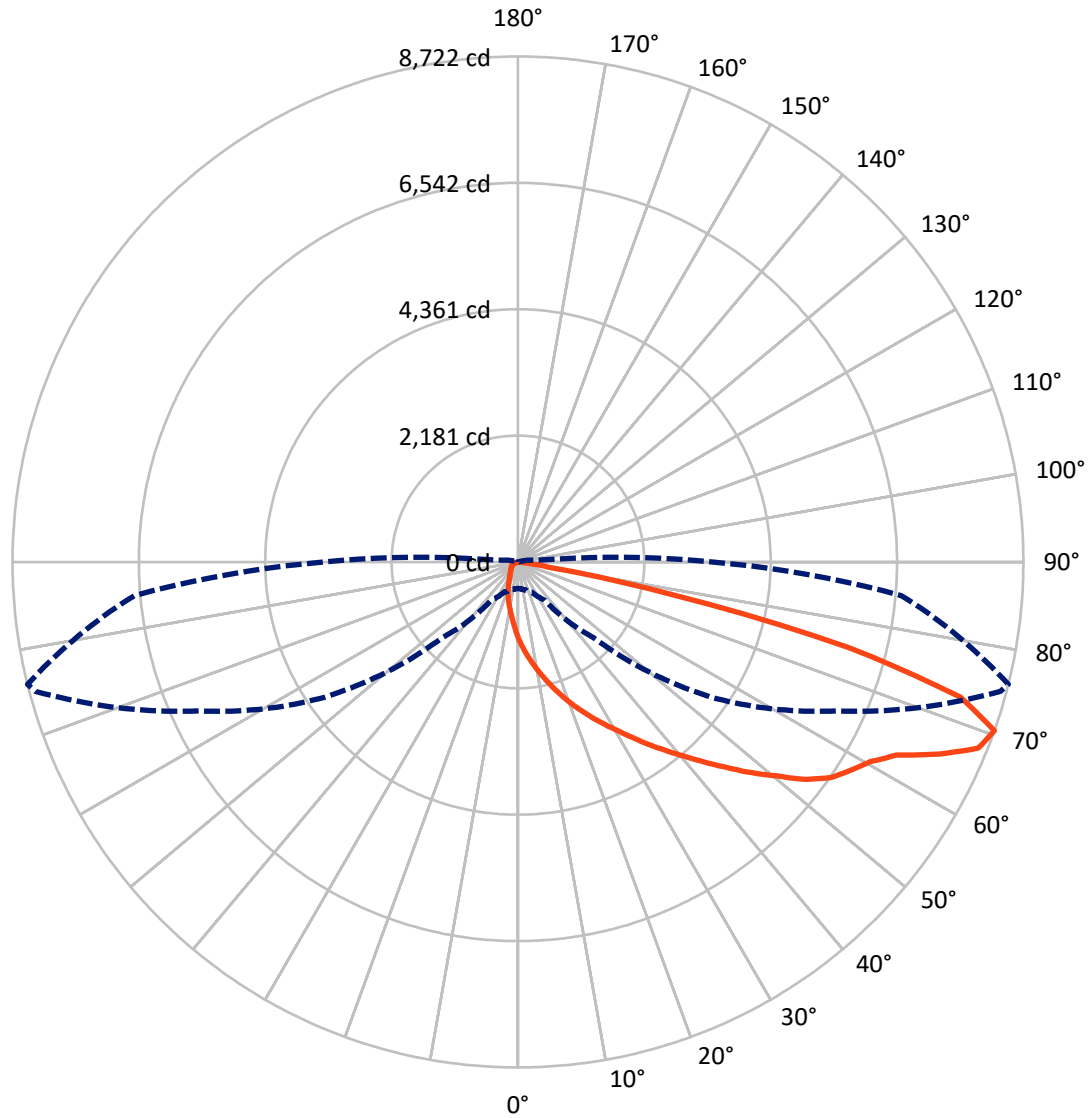
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	464.7	0.0	464.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	9388.3	0.0	9388.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	9853.0	0.0	9853.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	1.3
10°-20°	401.0	4.1
20°-30°	746.8	7.6
30°-40°	1321.0	13.4
40°-50°	2020.1	20.5
50°-60°	2290.3	23.2
60°-70°	1963.4	19.9
70°-80°	950.9	9.7
80°-90°	35.3	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°	9853.0	100.0
0°-180°	9853.0	100.0

Coefficient of Utilization

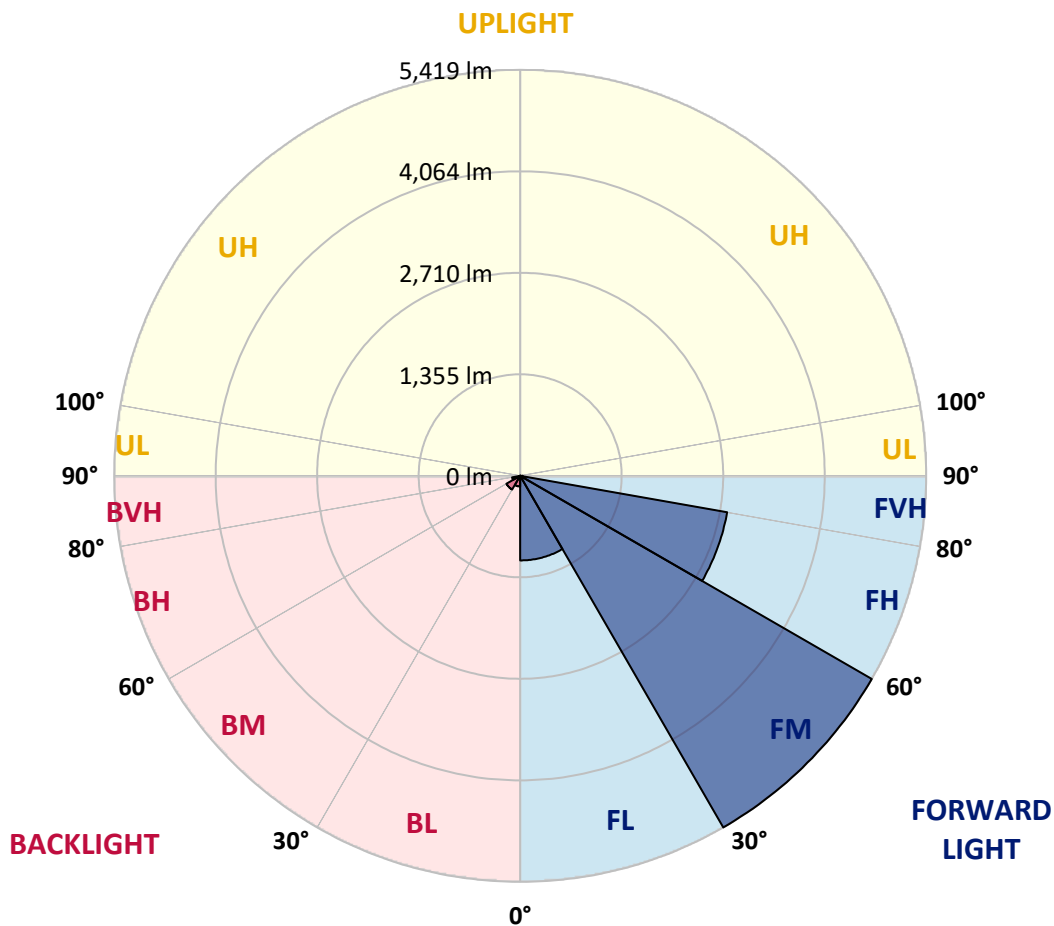


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1129.5	11.5			
FM (30°-60°)	5419.2	55.0			
FH (60°-80°)	2804.9	28.5			G2/5000
FVH (80°-90°)	34.7	0.4			G1/100
BL (0°-30°)	142.5	1.4	B1/500		
BM (30°-60°)	212.1	2.2	B0/220		
BH (60°-80°)	109.4	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°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9
2.5°	1802.8	1793.0	1783.1	1745.4	1710.9	1679.8	1620.7	1543.6	1474.7	1460.0	1379.6
5°	2117.8	2106.3	2091.5	2053.8	2009.5	1957.0	1870.1	1752.0	1630.6	1604.3	1455.0
7.5°	2331.0	2321.2	2299.9	2281.8	2237.5	2186.7	2089.9	1952.1	1784.8	1752.0	1542.0
10°	2477.0	2470.5	2467.2	2452.4	2419.6	2378.6	2281.8	2137.5	1940.6	1902.9	1633.8
12.5°	2529.5	2529.5	2545.9	2570.5	2575.4	2562.3	2473.7	2329.4	2104.6	2065.3	1742.1
15°	2459.0	2467.2	2503.3	2582.0	2664.0	2718.2	2662.4	2527.9	2285.1	2242.4	1870.1
17.5°	2439.3	2447.5	2472.1	2541.0	2650.9	2795.3	2823.1	2719.8	2455.7	2419.6	2001.3
20°	2495.1	2503.3	2524.6	2583.6	2667.3	2813.3	2929.8	2905.2	2636.1	2598.4	2134.2
22.5°	2627.9	2632.9	2632.9	2678.8	2752.6	2860.9	2997.0	3080.7	2821.5	2780.5	2265.4
25°	2913.4	2903.5	2864.2	2841.2	2888.8	2977.3	3082.3	3234.9	3028.2	2972.4	2406.5
27.5°	3287.4	3320.2	3225.0	3115.1	3079.0	3129.9	3202.1	3371.0	3228.3	3169.3	2534.4
30°	3794.3	3781.1	3656.5	3499.0	3343.1	3325.1	3349.7	3487.5	3428.5	3372.7	2677.1
32.5°	4210.9	4235.5	4104.3	3912.4	3679.4	3569.5	3543.3	3626.9	3641.7	3605.6	2846.1
35°	4639.1	4665.3	4537.4	4324.1	4046.9	3863.2	3787.7	3799.2	3905.8	3859.9	3023.3
37.5°	5022.9	5045.9	4919.6	4701.4	4424.2	4199.4	4091.2	4002.6	4161.7	4120.7	3210.3
40°	5314.9	5318.2	5232.9	5037.7	4775.2	4542.3	4419.3	4245.4	4432.4	4404.5	3405.5
42.5°	5521.6	5528.2	5465.8	5298.5	5055.7	4839.2	4739.1	4532.4	4744.1	4719.5	3631.9
45°	5618.4	5629.9	5623.3	5469.1	5267.3	5080.3	5047.5	4837.6	5085.3	5062.3	3892.7
47.5°	5526.5	5526.5	5610.2	5588.9	5403.5	5278.8	5316.6	5155.8	5456.0	5434.7	4158.4
50°	5144.3	5149.2	5319.8	5564.3	5456.0	5428.1	5546.2	5467.5	5792.3	5805.4	4476.7
52.5°	4140.4	4132.2	4708.0	5177.1	5419.9	5495.4	5757.8	5785.7	6195.8	6235.2	4793.3
55°	3093.8	3088.9	3640.1	4491.4	5167.3	5460.9	5875.9	6069.5	6540.3	6564.9	5029.5
57.5°	2449.1	2436.0	2739.5	3620.4	4596.4	5306.7	5880.9	6123.6	6732.2	6774.9	5259.1
60°	1883.2	1871.7	2098.1	2693.5	3787.7	4896.6	5739.8	6126.9	6917.6	6993.1	5567.5
62.5°	1346.8	1359.9	1533.8	1932.4	2913.4	4317.6	5556.1	6172.9	7247.3	7332.6	6005.5
65°	908.8	902.2	1046.6	1315.6	2071.8	3538.4	5273.9	6269.6	7841.1	7990.4	6530.5
67.5°	631.6	636.5	702.1	856.3	1315.6	2716.5	4804.8	6323.8	8454.7	8571.1	6897.9
70°	456.0	462.6	498.7	575.8	803.8	1842.2	4061.6	6076.1	8620.3	8722.0	6642.0
72.5°	300.2	313.3	367.5	408.5	513.4	1153.2	2992.1	5234.5	7906.8	7982.2	5572.5
75°	162.4	165.7	236.2	305.1	365.8	718.5	1784.8	3530.2	5915.3	5890.7	3674.5
77.5°	126.3	131.2	146.0	218.2	246.1	395.3	705.4	1594.5	2801.8	2726.4	1253.3
80°	77.1	80.4	101.7	129.6	172.2	229.7	206.7	433.1	569.2	533.1	183.7
82.5°	45.9	49.2	60.7	108.3	136.2	108.3	72.2	105.0	106.6	105.0	45.9
85°	8.2	8.2	42.7	75.5	72.2	31.2	42.7	34.4	31.2	32.8	9.8
87.5°	0.0	0.0	16.4	23.0	32.8	11.5	16.4	8.2	8.2	8.2	4.9
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°	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9	1318.9
2.5°	1330.4	1274.6	1159.8	1059.7	959.6	885.8	830.0	772.6	752.9	728.3	715.2
5°	1353.3	1243.4	1015.4	833.3	679.1	561.0	485.6	439.6	410.1	388.8	383.9
7.5°	1387.8	1218.8	898.9	652.9	483.9	365.8	303.5	272.3	255.9	246.1	242.8
10°	1428.8	1197.5	784.1	508.5	341.2	257.5	223.1	210.0	203.4	200.1	198.5
12.5°	1486.2	1189.3	687.3	392.1	257.5	211.6	193.6	185.4	180.4	175.5	173.9
15°	1561.7	1192.6	598.7	303.5	213.3	188.6	173.9	165.7	159.1	154.2	154.2
17.5°	1640.4	1197.5	511.8	246.1	193.6	172.2	155.8	144.4	139.4	134.5	132.9
20°	1714.2	1195.9	428.1	210.0	175.5	154.2	137.8	126.3	118.1	113.2	113.2
22.5°	1784.8	1186.0	349.4	188.6	160.8	136.2	118.1	106.6	100.1	95.1	95.1
25°	1860.2	1166.3	285.4	172.2	142.7	119.7	101.7	90.2	85.3	80.4	80.4
27.5°	1919.3	1133.5	232.9	157.5	126.3	103.3	86.9	77.1	72.2	68.9	68.9
30°	1983.3	1085.9	193.6	141.1	109.9	88.6	73.8	65.6	60.7	59.1	59.1
32.5°	2053.8	1033.5	165.7	124.7	93.5	75.5	62.3	57.4	52.5	50.9	50.9
35°	2135.8	987.5	149.3	108.3	82.0	64.0	54.1	49.2	45.9	45.9	45.9
37.5°	2229.3	940.0	134.5	95.1	70.5	54.1	45.9	44.3	42.7	41.0	41.0
40°	2331.0	889.1	121.4	83.7	60.7	45.9	39.4	39.4	37.7	37.7	37.7
42.5°	2445.8	844.8	109.9	73.8	52.5	39.4	34.4	34.4	32.8	32.8	32.8
45°	2570.5	803.8	100.1	65.6	45.9	34.4	31.2	29.5	27.9	27.9	27.9
47.5°	2718.2	780.8	91.9	57.4	39.4	29.5	26.2	24.6	23.0	21.3	21.3
50°	2906.8	790.7	83.7	47.6	34.4	24.6	21.3	19.7	18.0	16.4	16.4
52.5°	3056.1	785.8	72.2	41.0	27.9	19.7	16.4	14.8	13.1	11.5	11.5
55°	3164.3	766.1	62.3	34.4	21.3	16.4	13.1	9.8	8.2	8.2	8.2
57.5°	3271.0	746.4	52.5	27.9	16.4	11.5	8.2	6.6	6.6	6.6	6.6
60°	3436.7	718.5	45.9	23.0	13.1	8.2	4.9	4.9	3.3	3.3	3.3
62.5°	3638.4	684.0	37.7	19.7	9.8	6.6	3.3	3.3	0.0	0.0	0.0
65°	3859.9	623.4	31.2	14.8	8.2	4.9	3.3	0.0	0.0	0.0	0.0
67.5°	3809.0	500.3	26.2	9.8	6.6	3.3	1.6	0.0	0.0	0.0	0.0
70°	3369.4	337.9	21.3	8.2	4.9	3.3	1.6	0.0	0.0	0.0	0.0
72.5°	2639.4	200.1	14.8	6.6	3.3	1.6	0.0	0.0	0.0	0.0	0.0
75°	1689.6	100.1	9.8	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	565.9	49.2	6.6	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	80.4	16.4	3.3	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	18.0	6.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.6	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.6	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)