

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: P400400

Luminaire Tested: **ARCH-L-PA3-270-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-270-830-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19379 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

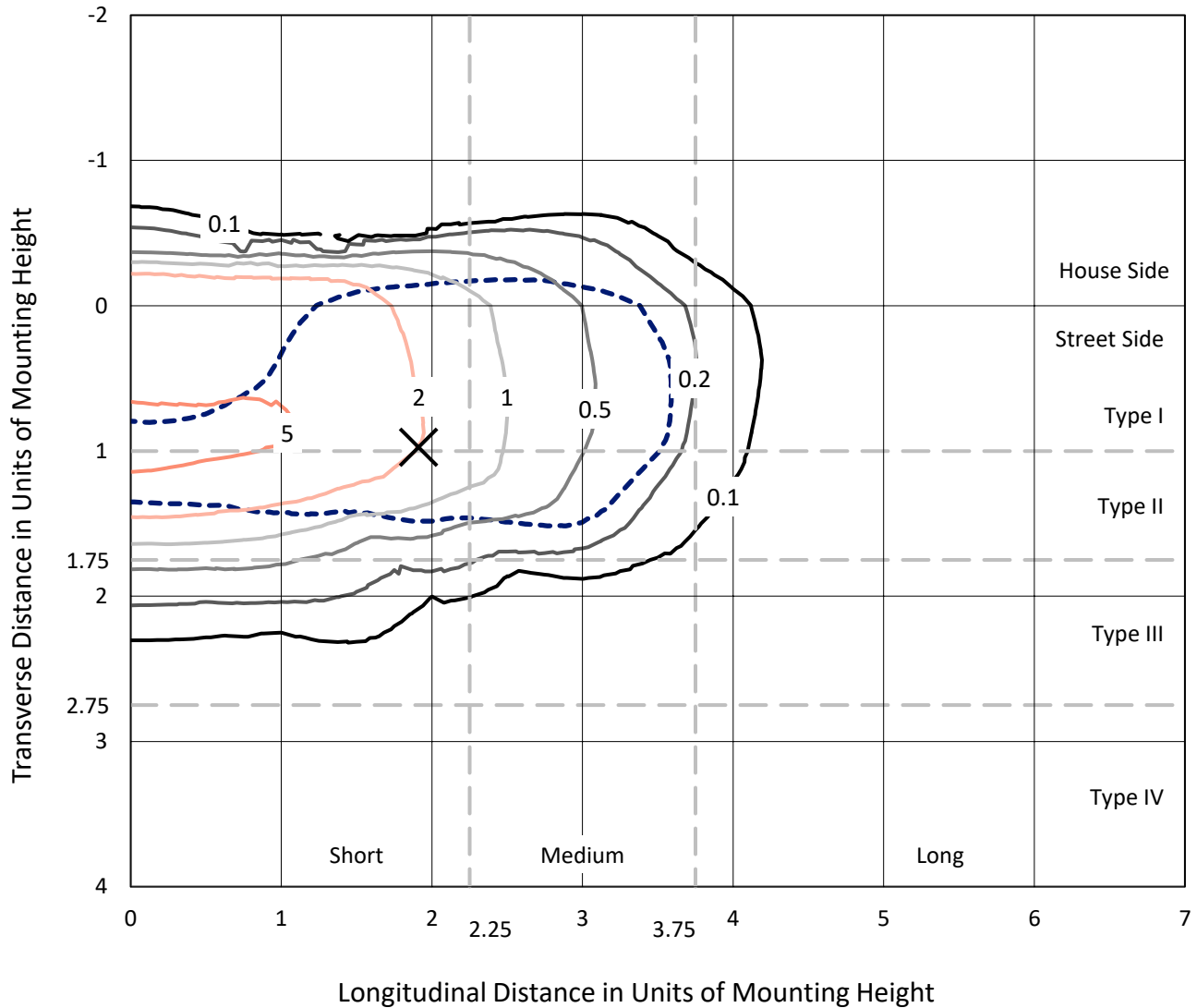
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

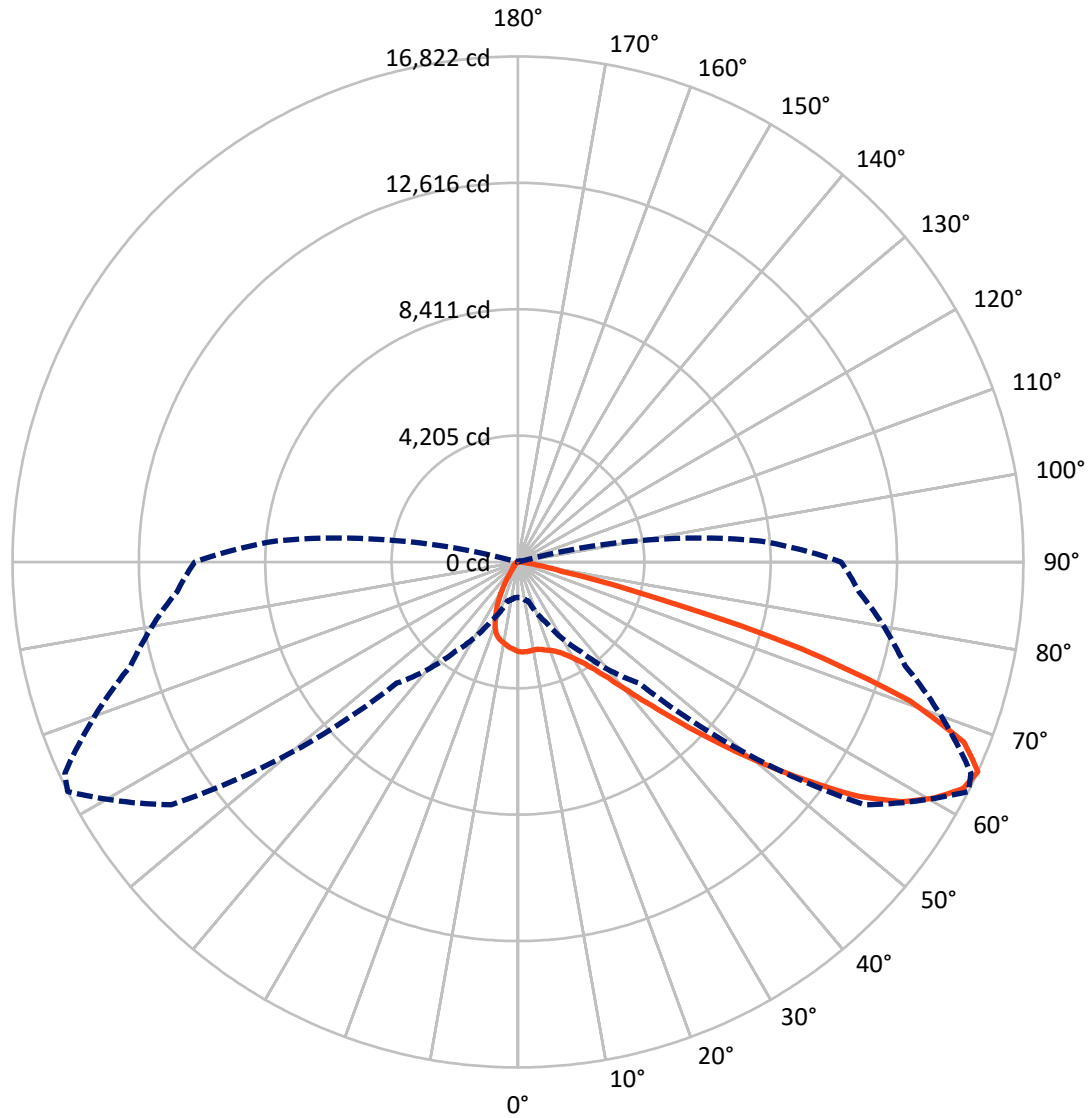
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2494.1	0.0	2494.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	16884.9	0.0	16884.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	19379.0	0.0	19379.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.4	1.4
10°-20°	672.0	3.5
20°-30°	996.0	5.1
30°-40°	1849.4	9.5
40°-50°	3917.8	20.2
50°-60°	5417.3	28.0
60°-70°	4336.7	22.4
70°-80°	1801.8	9.3
80°-90°	115.7	0.6
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°	19379.0	100.0
0°-180°	19379.0	100.0

Coefficient of Utilization

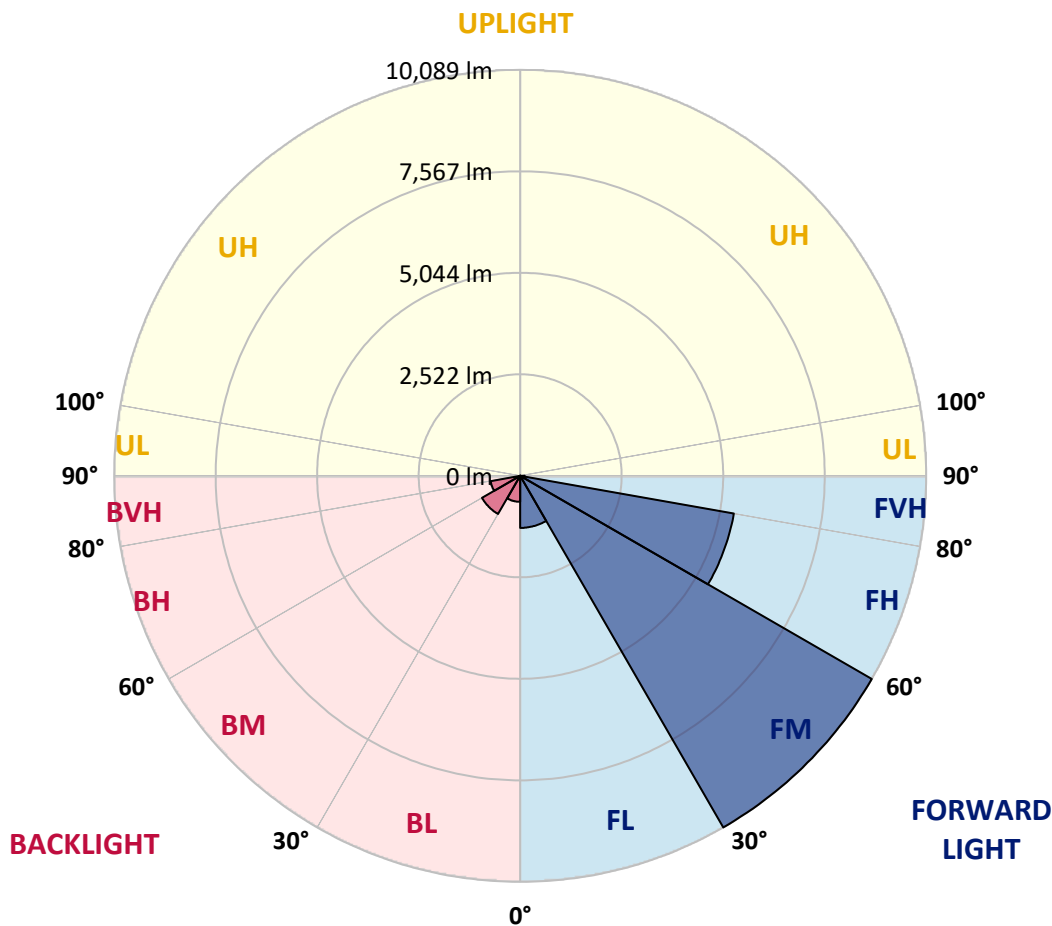


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.1	6.7			
FM (30°-60°)	10088.8	52.1			
FH (60°-80°)	5391.7	27.8			G3/7500
FVH (80°-90°)	110.4	0.6			G2/225
BL (0°-30°)	646.4	3.3	B2/1000		
BM (30°-60°)	1095.6	5.7	B2/2500		
BH (60°-80°)	746.8	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2985.3	2985.3	2985.3	2985.3	2985.3	2985.3	2985.3	2985.3	2985.3	2985.3	2985.3
2.5°	3036.6	3029.2	3021.9	3018.3	3018.3	3014.6	3000.0	2996.3	2989.0	2981.7	2974.4
5°	3007.3	2996.3	2992.7	2996.3	3000.0	3007.3	3000.0	3000.0	2992.7	2985.3	2970.7
7.5°	2934.1	2926.8	2930.5	2941.4	2945.1	2970.7	2974.4	2985.3	2985.3	2978.0	2967.1
10°	2846.3	2842.7	2842.7	2861.0	2879.2	2915.8	2941.4	2970.7	2974.4	2974.4	2956.1
12.5°	2780.5	2776.8	2787.8	2809.7	2846.3	2893.9	2937.8	2981.7	2989.0	2992.7	2963.4
15°	2740.2	2740.2	2754.9	2798.8	2850.0	2915.8	2967.1	3025.6	3032.9	3029.2	2989.0
17.5°	2703.6	2707.3	2736.6	2809.7	2868.3	2956.1	3018.3	3084.1	3087.8	3084.1	3018.3
20°	2689.0	2696.3	2740.2	2835.3	2901.2	3000.0	3080.5	3146.3	3150.0	3135.3	3047.5
22.5°	2729.2	2732.9	2787.8	2890.2	2952.4	3062.2	3164.6	3226.8	3230.5	3208.5	3091.4
25°	2868.3	2868.3	2915.8	3003.6	3058.5	3168.3	3278.0	3351.2	3351.2	3325.6	3190.2
27.5°	3193.9	3164.6	3153.6	3179.2	3197.5	3314.6	3431.7	3523.1	3519.5	3482.9	3318.3
30°	3823.1	3750.0	3632.9	3501.2	3435.3	3515.8	3625.6	3742.7	3739.0	3680.5	3475.6
32.5°	4880.5	4774.4	4496.3	4148.8	3867.0	3775.6	3878.0	4006.1	4009.7	3940.2	3728.0
35°	6362.2	6193.9	5696.3	5213.4	4569.5	4221.9	4251.2	4390.2	4434.1	4397.5	4152.4
37.5°	7789.0	7635.3	7159.7	6490.2	5615.8	4906.1	4781.7	4902.4	4953.6	4953.6	4693.9
40°	9226.8	9047.5	8626.8	7953.6	7031.7	5974.3	5528.0	5626.8	5681.7	5692.6	5352.4
42.5°	10379.2	10262.1	9940.2	9417.0	8553.6	7847.5	6603.6	6548.7	6600.0	6559.7	6117.0
45°	11176.8	11085.3	10862.1	10664.6	10243.8	9889.0	8041.4	7671.9	7704.8	7565.8	6976.8
47.5°	11341.4	11238.9	11191.4	11465.8	11765.8	11853.6	9808.5	9007.3	8974.3	8667.0	7869.5
50°	10624.3	10635.3	10810.9	11593.8	12845.0	13635.3	11857.2	10514.6	10393.8	9709.7	8699.9
52.5°	9076.8	9252.4	9695.1	10964.6	13174.3	14930.4	13906.0	12113.3	11926.7	10723.1	9321.9
55°	7101.2	7328.0	8056.0	9515.8	12486.5	15508.4	15632.8	13774.3	13349.9	11484.1	9804.8
57.5°	5279.2	5348.7	6197.5	7529.2	10858.5	14941.4	16518.2	15054.8	14509.7	12091.4	10284.1
60°	3289.0	3332.9	4229.2	5732.9	8224.3	12845.0	16518.2	15936.5	15417.0	12636.5	10723.1
62.5°	2045.1	2059.7	2396.3	3929.2	5590.2	9526.8	15834.0	16620.6	16203.5	13028.0	11099.9
65°	1178.0	1192.7	1350.0	2220.7	3636.6	5703.6	14085.3	16821.8	16635.3	13338.9	11392.6
67.5°	859.8	867.1	929.3	1247.6	2378.0	2930.5	10580.4	16013.3	16247.4	13492.6	11385.3
70°	746.3	757.3	837.8	973.2	1715.8	1800.0	5385.3	13829.2	14484.0	13273.1	11045.0
72.5°	574.4	589.0	709.8	914.6	1258.5	1295.1	1950.0	9841.4	10832.9	11901.1	10112.1
75°	395.1	409.8	530.5	753.7	1039.0	969.5	1071.9	4529.2	5714.6	7982.9	7697.5
77.5°	252.4	256.1	332.9	548.8	896.3	687.8	735.4	1478.0	2074.4	3611.0	3632.9
80°	168.3	172.0	204.9	354.9	614.6	636.6	453.7	684.1	750.0	1053.7	731.7
82.5°	102.4	102.4	139.0	223.2	373.2	526.8	296.3	358.5	384.1	406.1	190.2
85°	40.2	40.2	84.1	146.3	234.1	245.1	186.6	208.5	219.5	237.8	87.8
87.5°	11.0	11.0	47.6	80.5	102.4	113.4	113.4	102.4	109.8	135.4	43.9
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°	2985.3	2985.3	2985.3	2985.3	2985.3	2985.3	2985.3	2985.3	2985.3	2985.3	2985.3
2.5°	2970.7	2959.7	2945.1	2930.5	2915.8	2904.9	2893.9	2893.9	2886.6	2875.6	2868.3
5°	2963.4	2945.1	2912.2	2886.6	2846.3	2817.1	2795.1	2776.8	2765.8	2740.2	2736.6
7.5°	2952.4	2930.5	2882.9	2831.7	2765.8	2714.6	2663.4	2626.8	2590.2	2561.0	2553.6
10°	2934.1	2908.5	2839.0	2765.8	2674.4	2579.3	2458.5	2319.5	2191.4	2118.3	2096.3
12.5°	2934.1	2901.2	2809.7	2711.0	2579.3	2345.1	2037.8	1730.5	1492.7	1386.6	1357.3
15°	2952.4	2908.5	2787.8	2652.4	2407.3	1931.7	1434.1	1028.0	768.3	687.8	669.5
17.5°	2970.7	2908.5	2754.9	2571.9	2092.7	1401.2	815.8	541.5	457.3	439.0	439.0
20°	2978.0	2901.2	2711.0	2421.9	1671.9	870.7	486.6	406.1	373.2	362.2	362.2
22.5°	3007.3	2904.9	2678.0	2206.1	1214.6	512.2	384.1	340.2	307.3	296.3	296.3
25°	3080.5	2948.8	2685.3	1931.7	779.3	387.8	325.6	281.7	248.8	234.1	234.1
27.5°	3197.5	3047.5	2725.6	1613.4	490.2	332.9	274.4	226.8	201.2	186.6	186.6
30°	3329.2	3157.3	2743.9	1247.6	365.9	281.7	223.2	179.3	161.0	150.0	146.3
32.5°	3559.7	3347.5	2729.2	856.1	300.0	237.8	179.3	142.7	128.0	124.4	124.4
35°	3929.2	3680.5	2700.0	537.8	248.8	190.2	142.7	117.1	106.1	102.4	98.8
37.5°	4430.5	4167.0	2612.2	354.9	204.9	150.0	117.1	98.8	87.8	84.1	84.1
40°	5041.4	4723.1	2443.9	270.7	175.6	120.7	98.8	84.1	76.8	73.2	73.2
42.5°	5740.2	5341.4	2176.8	234.1	146.3	102.4	84.1	69.5	65.9	62.2	62.2
45°	6504.8	5989.0	1807.3	208.5	124.4	84.1	69.5	62.2	54.9	54.9	51.2
47.5°	7317.0	6640.2	1390.2	182.9	106.1	73.2	62.2	51.2	47.6	43.9	43.9
50°	8099.9	7221.9	976.8	157.3	87.8	62.2	51.2	43.9	40.2	36.6	36.6
52.5°	8652.4	7573.1	691.5	135.4	73.2	54.9	40.2	32.9	29.3	29.3	29.3
55°	9095.1	7792.6	482.9	113.4	62.2	47.6	32.9	25.6	25.6	22.0	22.0
57.5°	9512.1	7935.3	354.9	95.1	51.2	36.6	25.6	18.3	18.3	14.6	14.6
60°	9943.8	8012.1	270.7	76.8	43.9	29.3	18.3	14.6	11.0	11.0	11.0
62.5°	10379.2	8059.7	208.5	62.2	36.6	22.0	14.6	11.0	7.3	3.7	3.7
65°	10759.7	8074.3	161.0	47.6	29.3	14.6	11.0	3.7	0.0	0.0	0.0
67.5°	10873.1	7906.0	124.4	36.6	22.0	11.0	7.3	0.0	0.0	0.0	0.0
70°	10565.8	7459.7	95.1	29.3	18.3	7.3	3.7	0.0	0.0	0.0	0.0
72.5°	9376.8	6256.1	73.2	18.3	14.6	7.3	3.7	0.0	0.0	0.0	0.0
75°	6709.7	3336.6	51.2	14.6	11.0	3.7	0.0	0.0	0.0	0.0	0.0
77.5°	3087.8	1291.5	36.6	11.0	7.3	3.7	0.0	0.0	0.0	0.0	0.0
80°	603.7	321.9	14.6	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	139.0	54.9	7.3	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	47.6	18.3	3.7	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.3	7.3	3.7	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)