

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: P400040

Luminaire Tested: **ARCH-L-PA3-220-830-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400040
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-PA3-220-830-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 945mA 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: 16996 lumens
Efficiency: N/A
Efficacy: 76.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

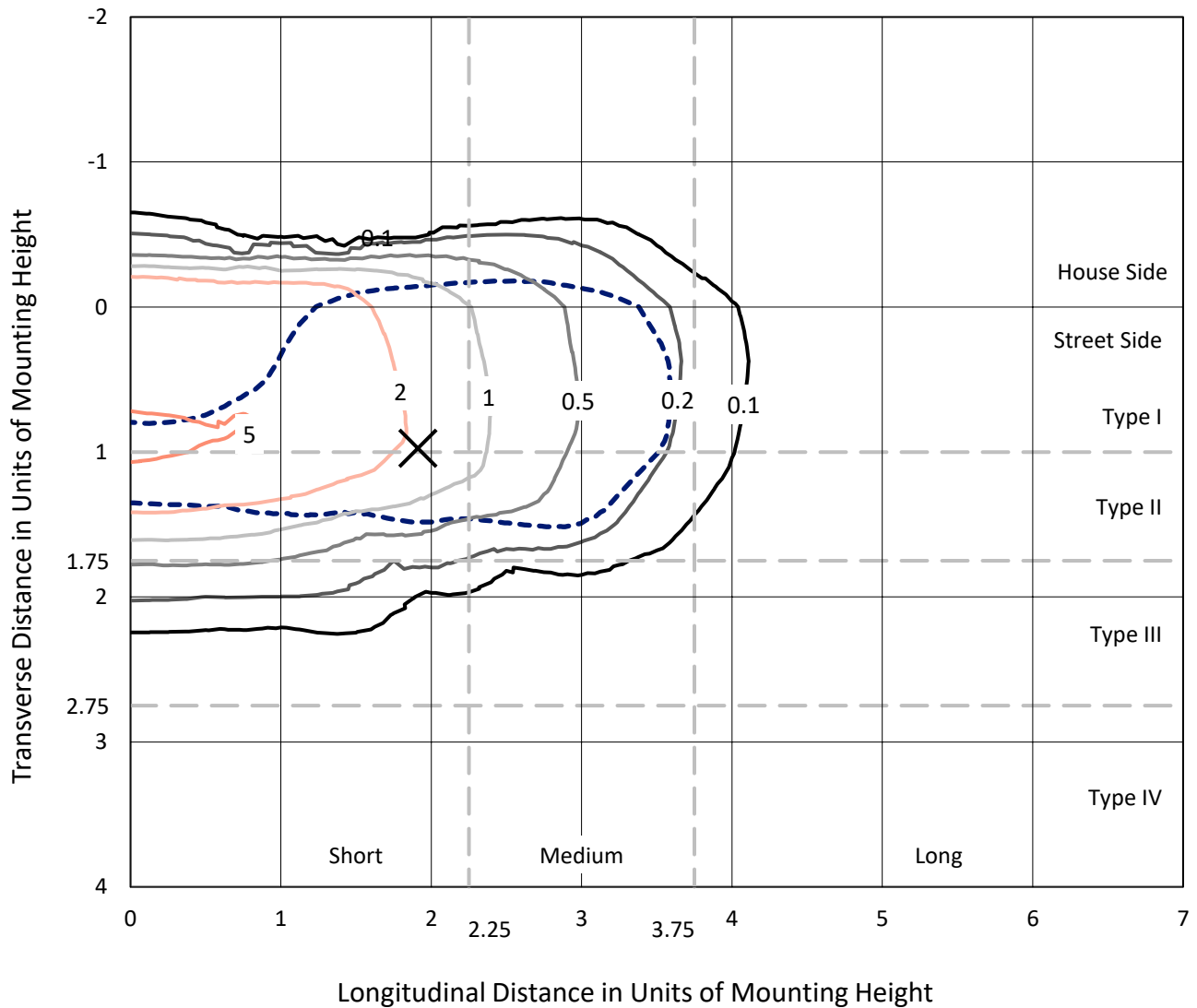
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

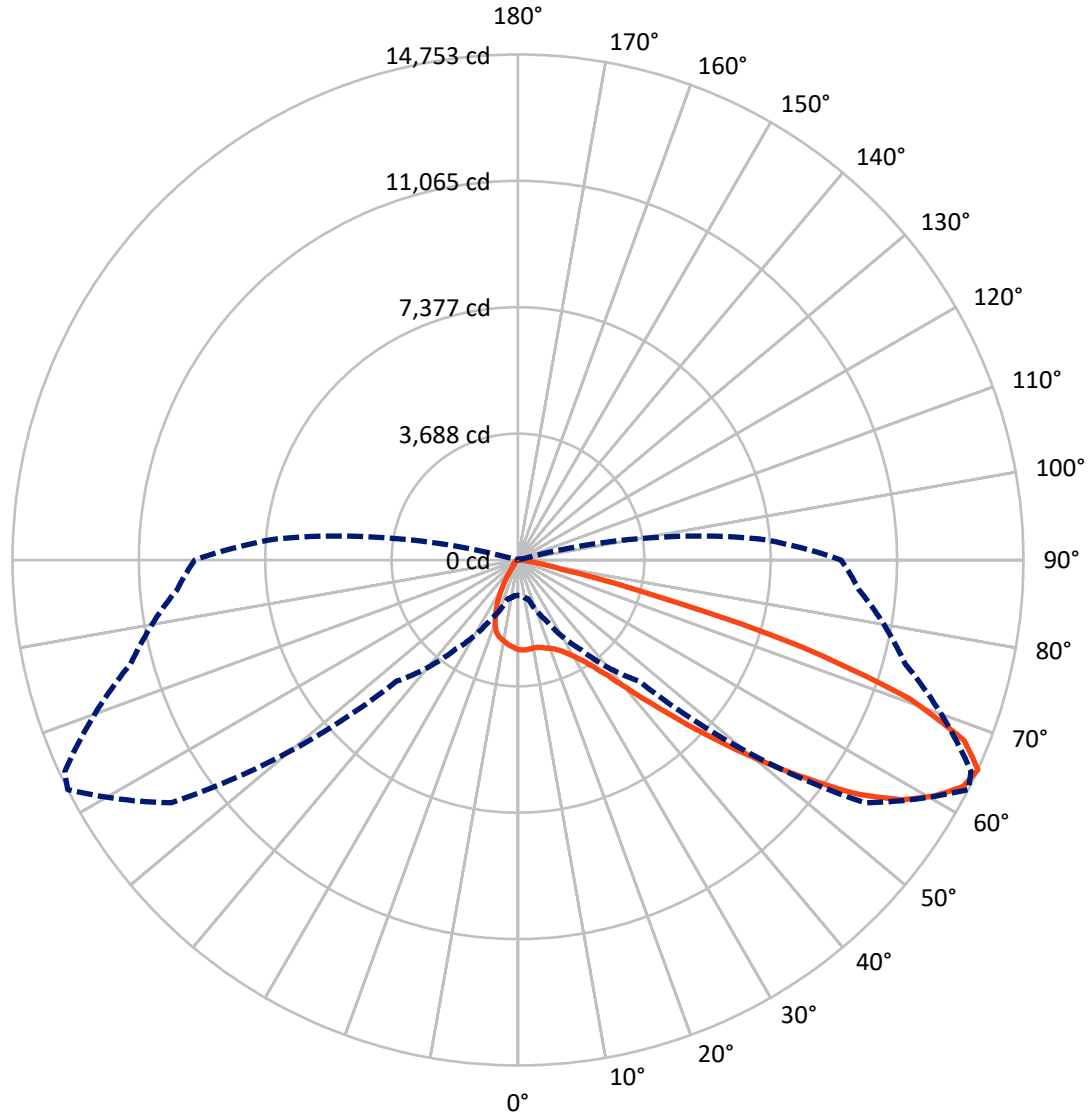
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	2187.3	0.0	2187.3
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	14808.6	0.0	14808.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	16996.0	0.0	16996.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.9	1.4
10°-20°	589.4	3.5
20°-30°	873.5	5.1
30°-40°	1621.9	9.5
40°-50°	3436.0	20.2
50°-60°	4751.1	28.0
60°-70°	3803.4	22.4
70°-80°	1580.2	9.3
80°-90°	101.5	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°	16996.0	100.0
0°-180°	16996.0	100.0

Coefficient of Utilization

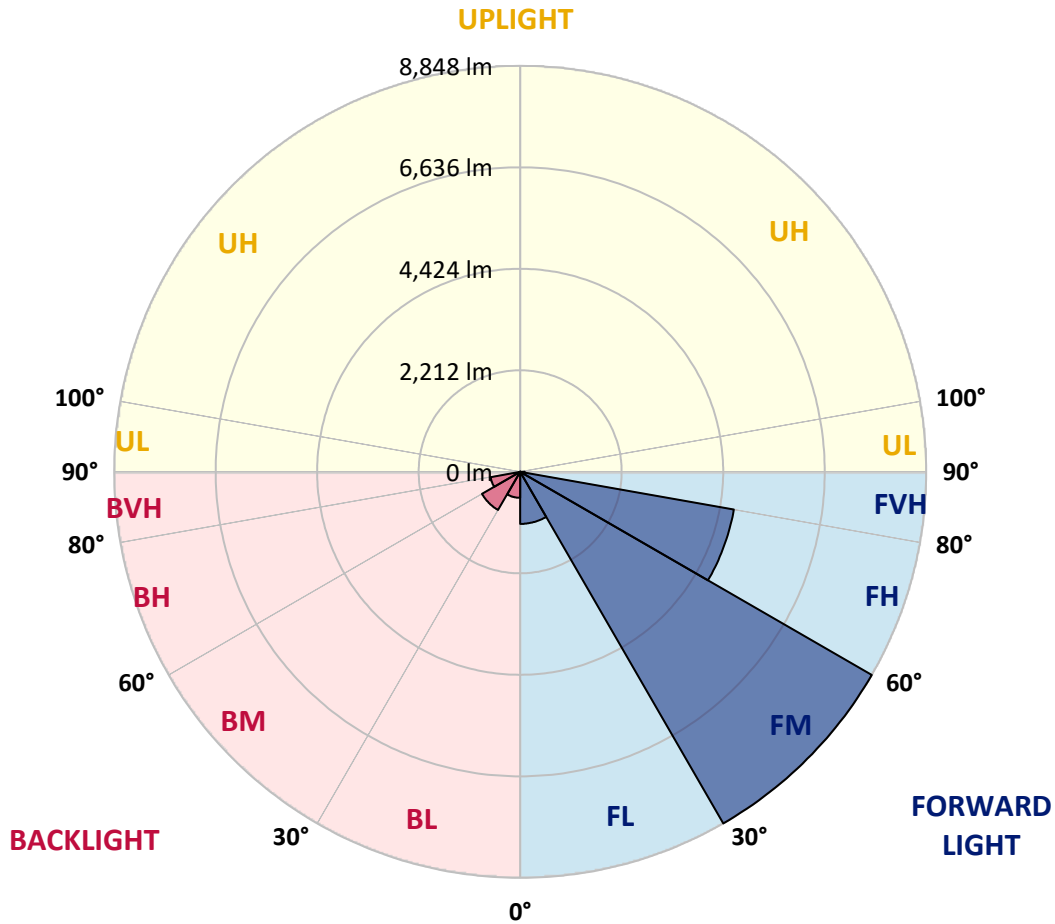


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.9	6.7			
FM (30°-60°)	8848.2	52.1			
FH (60°-80°)	4728.7	27.8			G2/5000
FVH (80°-90°)	96.8	0.6			G1/100
BL (0°-30°)	566.9	3.3	B2/1000		
BM (30°-60°)	960.9	5.7	B1/1000		
BH (60°-80°)	655.0	3.9	B2/1000		G2/1000
BVH (80°-90°)	4.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2
2.5°	2663.2	2656.7	2650.3	2647.1	2647.1	2643.9	2631.1	2627.9	2621.5	2615.0	2608.6
5°	2637.5	2627.9	2624.7	2627.9	2631.1	2637.5	2631.1	2631.1	2624.7	2618.2	2605.4
7.5°	2573.3	2566.9	2570.1	2579.7	2582.9	2605.4	2608.6	2618.2	2618.2	2611.8	2602.2
10°	2496.3	2493.1	2493.1	2509.1	2525.2	2557.3	2579.7	2605.4	2608.6	2608.6	2592.6
12.5°	2438.6	2435.4	2445.0	2464.2	2496.3	2538.0	2576.5	2615.0	2621.5	2624.7	2599.0
15°	2403.3	2403.3	2416.1	2454.6	2499.5	2557.3	2602.2	2653.5	2660.0	2656.7	2621.5
17.5°	2371.2	2374.4	2400.1	2464.2	2515.6	2592.6	2647.1	2704.9	2708.1	2704.9	2647.1
20°	2358.3	2364.8	2403.3	2486.7	2544.4	2631.1	2701.7	2759.4	2762.6	2749.8	2672.8
22.5°	2393.6	2396.8	2445.0	2534.8	2589.4	2685.6	2775.5	2830.0	2833.2	2814.0	2711.3
25°	2515.6	2515.6	2557.3	2634.3	2682.4	2778.7	2874.9	2939.1	2939.1	2916.6	2797.9
27.5°	2801.1	2775.5	2765.8	2788.3	2804.3	2907.0	3009.7	3089.9	3086.7	3054.6	2910.2
30°	3353.0	3288.8	3186.2	3070.7	3012.9	3083.5	3179.8	3282.4	3279.2	3227.9	3048.2
32.5°	4280.3	4187.3	3943.4	3638.6	3391.5	3311.3	3401.1	3513.5	3516.7	3455.7	3269.6
35°	5579.8	5432.2	4995.8	4572.3	4007.6	3702.8	3728.4	3850.4	3888.9	3856.8	3641.8
37.5°	6831.2	6696.4	6279.3	5692.1	4925.2	4302.8	4193.7	4299.6	4344.5	4344.5	4116.7
40°	8092.2	7934.9	7566.0	6975.6	6167.0	5239.7	4848.2	4934.9	4983.0	4992.6	4694.2
42.5°	9102.9	9000.2	8717.9	8259.0	7501.8	6882.5	5791.6	5743.4	5788.4	5753.1	5364.8
45°	9802.4	9722.2	9526.4	9353.2	8984.2	8672.9	7052.6	6728.5	6757.4	6635.4	6118.9
47.5°	9946.8	9856.9	9815.2	10055.8	10319.0	10396.0	8602.3	7899.6	7870.8	7601.2	6901.8
50°	9317.9	9327.5	9481.5	10168.2	11265.5	11958.6	10399.2	9221.6	9115.7	8515.7	7630.1
52.5°	7960.6	8114.6	8502.9	9616.3	11554.3	13094.4	12196.0	10623.8	10460.1	9404.5	8175.6
55°	6228.0	6426.9	7065.4	8345.6	10951.1	13601.4	13710.5	12080.5	11708.3	10071.9	8599.1
57.5°	4630.1	4691.0	5435.4	6603.4	9523.2	13104.0	14487.0	13203.5	12725.4	10604.5	9019.5
60°	2884.6	2923.1	3709.2	5027.9	7213.0	11265.5	14487.0	13976.8	13521.2	11082.6	9404.5
62.5°	1793.6	1806.5	2101.7	3446.1	4902.8	8355.3	13887.0	14576.8	14211.0	11425.9	9735.0
65°	1033.2	1046.0	1184.0	1947.6	3189.4	5002.3	12353.2	14753.3	14589.6	11698.7	9991.7
67.5°	754.0	760.4	815.0	1094.1	2085.6	2570.1	9279.4	14044.2	14249.5	11833.4	9985.3
70°	654.6	664.2	734.8	853.5	1504.8	1578.6	4723.1	12128.6	12703.0	11640.9	9686.9
72.5°	503.8	516.6	622.5	802.2	1103.8	1135.9	1710.2	8631.2	9500.8	10437.7	8868.7
75°	346.5	359.4	465.3	661.0	911.3	850.3	940.1	3972.3	5011.9	7001.2	6751.0
77.5°	221.4	224.6	292.0	481.3	786.1	603.2	644.9	1296.3	1819.3	3166.9	3186.2
80°	147.6	150.8	179.7	311.2	539.1	558.3	397.9	600.0	657.8	924.1	641.7
82.5°	89.8	89.8	121.9	195.7	327.3	462.0	259.9	314.4	336.9	356.2	166.8
85°	35.3	35.3	73.8	128.3	205.4	215.0	163.6	182.9	192.5	208.6	77.0
87.5°	9.6	9.6	41.7	70.6	89.8	99.5	99.5	89.8	96.3	118.7	38.5
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°	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2	2618.2
2.5°	2605.4	2595.8	2582.9	2570.1	2557.3	2547.7	2538.0	2538.0	2531.6	2522.0	2515.6
5°	2599.0	2582.9	2554.1	2531.6	2496.3	2470.6	2451.4	2435.4	2425.7	2403.3	2400.1
7.5°	2589.4	2570.1	2528.4	2483.5	2425.7	2380.8	2335.9	2303.8	2271.7	2246.0	2239.6
10°	2573.3	2550.9	2489.9	2425.7	2345.5	2262.1	2156.2	2034.3	1922.0	1857.8	1838.5
12.5°	2573.3	2544.4	2464.2	2377.6	2262.1	2056.7	1787.2	1517.7	1309.1	1216.1	1190.4
15°	2589.4	2550.9	2445.0	2326.3	2111.3	1694.2	1257.8	901.6	673.8	603.2	587.2
17.5°	2605.4	2550.9	2416.1	2255.7	1835.3	1228.9	715.5	474.9	401.1	385.0	385.0
20°	2611.8	2544.4	2377.6	2124.1	1466.3	763.7	426.7	356.2	327.3	317.7	317.7
22.5°	2637.5	2547.7	2348.7	1934.8	1065.3	449.2	336.9	298.4	269.5	259.9	259.9
25°	2701.7	2586.2	2355.1	1694.2	683.4	340.1	285.6	247.1	218.2	205.4	205.4
27.5°	2804.3	2672.8	2390.4	1415.0	430.0	292.0	240.6	198.9	176.5	163.6	163.6
30°	2919.9	2769.0	2406.5	1094.1	320.9	247.1	195.7	157.2	141.2	131.6	128.3
32.5°	3122.0	2935.9	2393.6	750.8	263.1	208.6	157.2	125.1	112.3	109.1	109.1
35°	3446.1	3227.9	2368.0	471.7	218.2	166.8	125.1	102.7	93.1	89.8	86.6
37.5°	3885.7	3654.6	2291.0	311.2	179.7	131.6	102.7	86.6	77.0	73.8	73.8
40°	4421.5	4142.3	2143.4	237.4	154.0	105.9	86.6	73.8	67.4	64.2	64.2
42.5°	5034.3	4684.6	1909.1	205.4	128.3	89.8	73.8	61.0	57.8	54.5	54.5
45°	5704.9	5252.5	1585.1	182.9	109.1	73.8	61.0	54.5	48.1	48.1	44.9
47.5°	6417.3	5823.7	1219.3	160.4	93.1	64.2	54.5	44.9	41.7	38.5	38.5
50°	7103.9	6333.8	856.7	138.0	77.0	54.5	44.9	38.5	35.3	32.1	32.1
52.5°	7588.4	6641.9	606.4	118.7	64.2	48.1	35.3	28.9	25.7	25.7	25.7
55°	7976.7	6834.4	423.5	99.5	54.5	41.7	28.9	22.5	22.5	19.3	19.3
57.5°	8342.4	6959.5	311.2	83.4	44.9	32.1	22.5	16.0	16.0	12.8	12.8
60°	8721.1	7026.9	237.4	67.4	38.5	25.7	16.0	12.8	9.6	9.6	9.6
62.5°	9102.9	7068.6	182.9	54.5	32.1	19.3	12.8	9.6	6.4	3.2	3.2
65°	9436.6	7081.4	141.2	41.7	25.7	12.8	9.6	3.2	0.0	0.0	0.0
67.5°	9536.1	6933.9	109.1	32.1	19.3	9.6	6.4	0.0	0.0	0.0	0.0
70°	9266.5	6542.4	83.4	25.7	16.0	6.4	3.2	0.0	0.0	0.0	0.0
72.5°	8223.7	5486.8	64.2	16.0	12.8	6.4	3.2	0.0	0.0	0.0	0.0
75°	5884.6	2926.3	44.9	12.8	9.6	3.2	0.0	0.0	0.0	0.0	0.0
77.5°	2708.1	1132.6	32.1	9.6	6.4	3.2	0.0	0.0	0.0	0.0	0.0
80°	529.4	282.4	12.8	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	121.9	48.1	6.4	6.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.7	16.0	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.0	6.4	3.2	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)