

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: P400310

Luminaire Tested: **ARCH-L-PA3-260-760-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400310
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-PA3-260-760-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 1110mA 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: 23737 lumens
Efficiency: N/A
Efficacy: 90.9 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

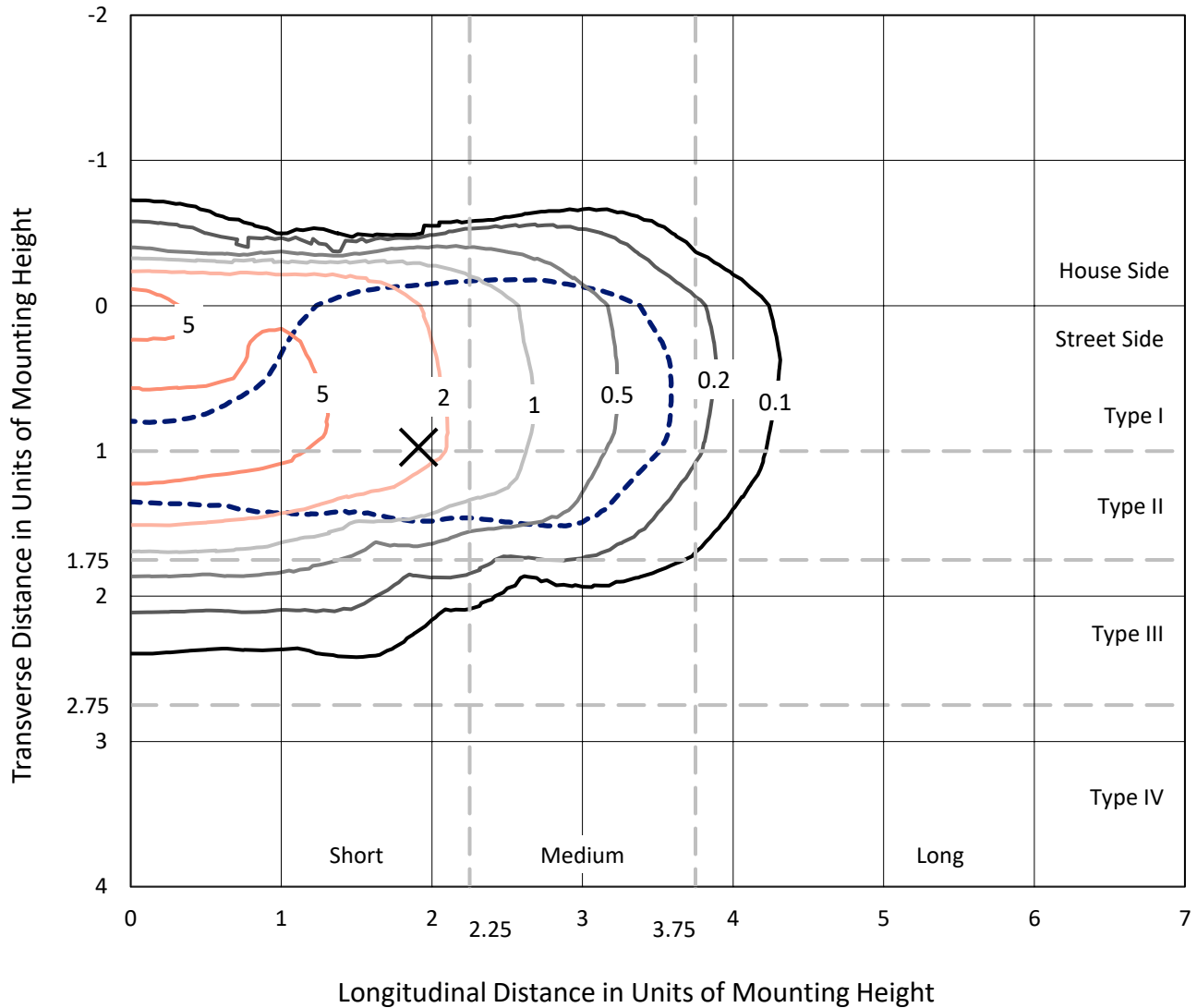
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

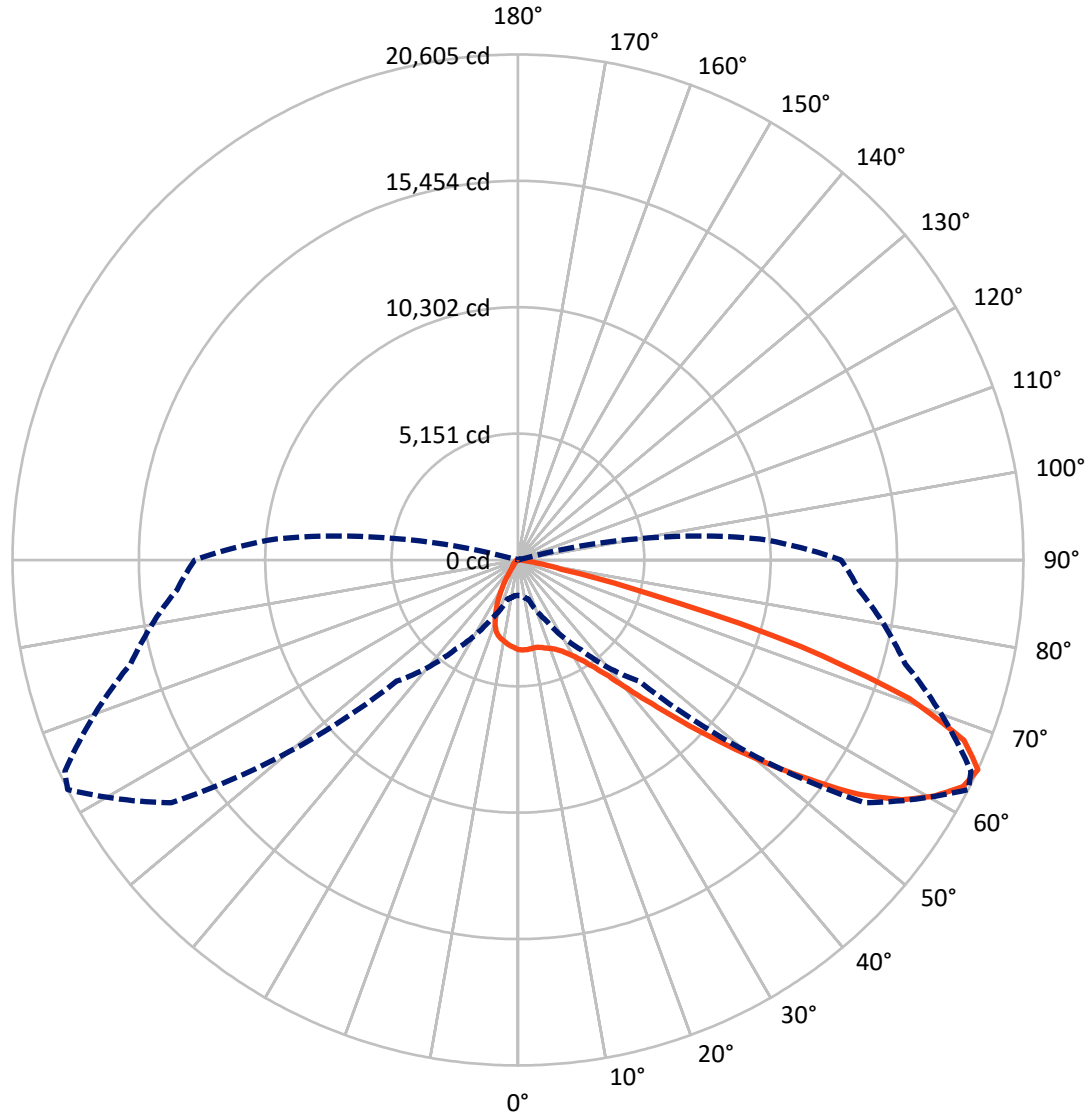
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	3054.9	0.0	3054.9
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	20682.1	0.0	20682.1
	% Fixture	87.1	0.0	87.1
Total	Lumens	23737.0	0.0	23737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.7	1.4
10°-20°	823.1	3.5
20°-30°	1220.0	5.1
30°-40°	2265.2	9.5
40°-50°	4798.8	20.2
50°-60°	6635.5	28.0
60°-70°	5311.9	22.4
70°-80°	2207.0	9.3
80°-90°	141.7	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°	23737.0	100.0
0°-180°	23737.0	100.0

Coefficient of Utilization



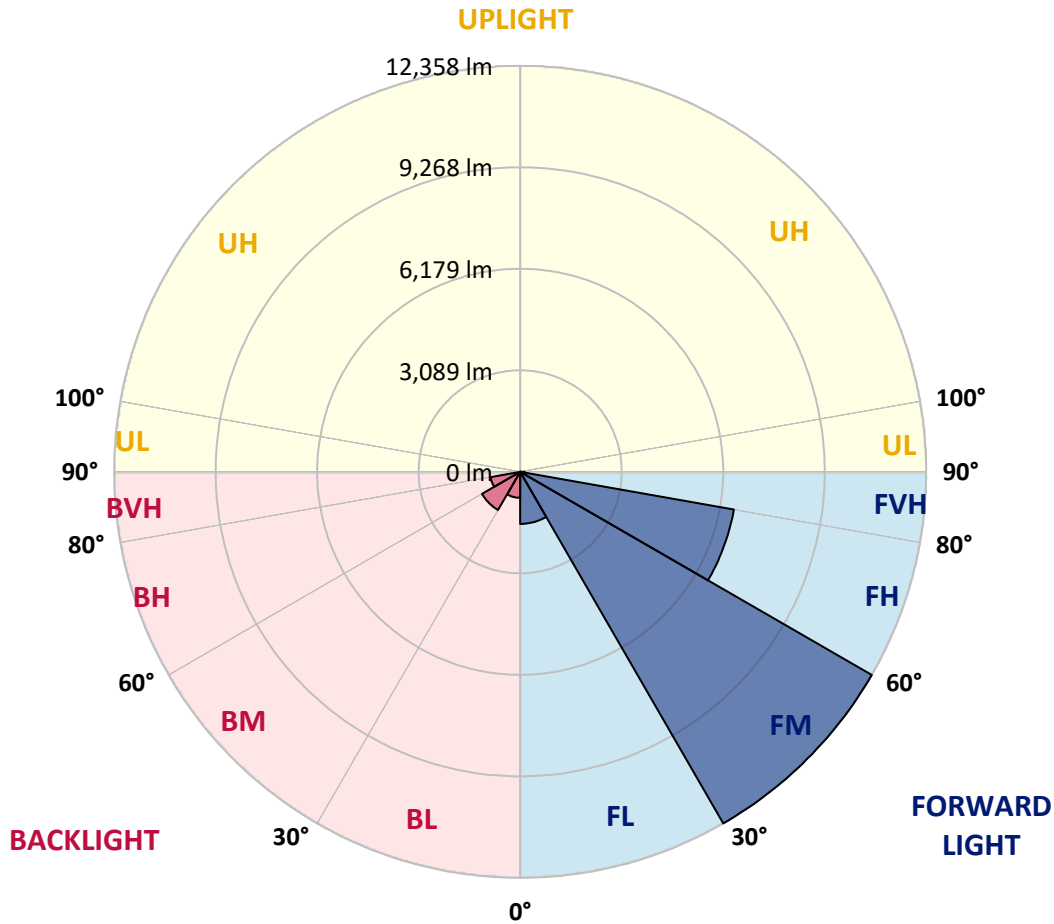
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1585.1	6.7			
FM (30°-60°)	12357.6	52.1			
FH (60°-80°)	6604.2	27.8			G3/7500
FVH (80°-90°)	135.2	0.6			G2/225
BL (0°-30°)	791.7	3.3	B2/1000		
BM (30°-60°)	1342.0	5.7	B2/2500		
BH (60°-80°)	914.7	3.9	B2/1000		G2/1000
BVH (80°-90°)	6.5	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°	3656.7	3656.7	3656.7	3656.7	3656.7	3656.7	3656.7	3656.7	3656.7	3656.7	3656.7
2.5°	3719.4	3710.5	3701.5	3697.0	3697.0	3692.5	3674.6	3670.1	3661.2	3652.2	3643.3
5°	3683.6	3670.1	3665.7	3670.1	3674.6	3683.6	3674.6	3674.6	3665.7	3656.7	3638.8
7.5°	3594.0	3585.0	3589.5	3602.9	3607.4	3638.8	3643.3	3656.7	3656.7	3647.7	3634.3
10°	3486.4	3481.9	3481.9	3504.3	3526.7	3571.6	3602.9	3638.8	3643.3	3643.3	3620.8
12.5°	3405.7	3401.3	3414.7	3441.6	3486.4	3544.7	3598.4	3652.2	3661.2	3665.7	3629.8
15°	3356.5	3356.5	3374.4	3428.2	3490.9	3571.6	3634.3	3706.0	3715.0	3710.5	3661.2
17.5°	3311.6	3316.1	3352.0	3441.6	3513.3	3620.8	3697.0	3777.7	3782.2	3777.7	3697.0
20°	3293.7	3302.7	3356.5	3473.0	3553.6	3674.6	3773.2	3853.9	3858.4	3840.4	3732.9
22.5°	3343.0	3347.5	3414.7	3540.2	3616.4	3750.8	3876.3	3952.5	3956.9	3930.1	3786.7
25°	3513.3	3513.3	3571.6	3679.1	3746.3	3880.8	4015.2	4104.8	4104.8	4073.5	3907.6
27.5°	3912.1	3876.3	3862.8	3894.2	3916.6	4060.0	4203.4	4315.4	4311.0	4266.1	4064.5
30°	4682.9	4593.3	4449.9	4288.6	4207.9	4306.5	4440.9	4584.3	4579.8	4508.1	4257.2
32.5°	5978.0	5848.0	5507.5	5081.7	4736.7	4624.6	4750.1	4907.0	4911.4	4826.3	4566.4
35°	7792.9	7586.8	6977.3	6385.8	5597.1	5171.4	5207.2	5377.5	5431.3	5386.5	5086.2
37.5°	9540.6	9352.4	8769.8	7949.7	6878.7	6009.4	5857.0	6004.9	6067.6	6067.6	5749.4
40°	11301.7	11082.1	10566.8	9742.2	8613.0	7317.9	6771.2	6892.2	6959.4	6972.8	6556.1
42.5°	12713.3	12569.9	12175.5	11534.7	10477.2	9612.3	8088.7	8021.4	8084.2	8034.9	7492.6
45°	13690.2	13578.2	13304.8	13062.8	12547.5	12112.8	9849.8	9397.2	9437.5	9267.2	8545.7
47.5°	13891.9	13766.4	13708.1	14044.2	14411.7	14519.2	12014.2	11032.8	10992.5	10616.1	9639.2
50°	13013.5	13027.0	13242.1	14201.1	15733.7	16701.6	14523.7	12879.1	12731.2	11893.2	10656.4
52.5°	11118.0	11333.1	11875.3	13430.3	16137.0	18288.0	17033.2	14837.4	14608.9	13134.5	11418.2
55°	8698.1	8975.9	9867.7	11655.7	15294.5	18996.0	19148.4	16871.9	16352.1	14066.6	12009.7
57.5°	6466.4	6551.6	7591.2	9222.4	13300.3	18301.4	20232.8	18440.3	17772.6	14810.5	12596.8
60°	4028.6	4082.4	5180.3	7022.1	10073.8	15733.7	20232.8	19520.3	18884.0	15478.2	13134.5
62.5°	2505.0	2522.9	2935.2	4812.9	6847.3	11669.2	19394.8	20358.3	19847.4	15957.7	13596.1
65°	1443.0	1460.9	1653.6	2720.1	4454.4	6986.3	17252.8	20604.8	20376.2	16338.6	13954.6
67.5°	1053.1	1062.1	1138.2	1528.1	2912.8	3589.5	12959.8	19614.4	19901.2	16526.8	13945.6
70°	914.2	927.6	1026.2	1192.0	2101.7	2204.8	6596.4	16939.1	17741.3	16258.0	13528.9
72.5°	703.6	721.5	869.4	1120.3	1541.5	1586.4	2388.5	12054.6	13269.0	14577.5	12386.2
75°	484.0	501.9	649.8	923.1	1272.7	1187.5	1313.0	5547.8	6999.7	9778.1	9428.5
77.5°	309.2	313.7	407.8	672.2	1097.9	842.5	900.7	1810.4	2540.9	4423.0	4449.9
80°	206.1	210.6	250.9	434.7	752.8	779.7	555.7	838.0	918.7	1290.6	896.2
82.5°	125.5	125.5	170.3	273.4	457.1	645.3	363.0	439.2	470.5	497.4	233.0
85°	49.3	49.3	103.1	179.2	286.8	300.2	228.5	255.4	268.9	291.3	107.5
87.5°	13.4	13.4	58.3	98.6	125.5	138.9	138.9	125.5	134.4	165.8	53.8
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°	3656.7	3656.7	3656.7	3656.7	3656.7	3656.7	3656.7	3656.7	3656.7	3656.7	3656.7
2.5°	3638.8	3625.3	3607.4	3589.5	3571.6	3558.1	3544.7	3544.7	3535.7	3522.3	3513.3
5°	3629.8	3607.4	3567.1	3535.7	3486.4	3450.6	3423.7	3401.3	3387.8	3356.5	3352.0
7.5°	3616.4	3589.5	3531.2	3468.5	3387.8	3325.1	3262.3	3217.5	3172.7	3136.9	3127.9
10°	3594.0	3562.6	3477.4	3387.8	3275.8	3159.3	3011.4	2841.1	2684.3	2594.6	2567.8
12.5°	3594.0	3553.6	3441.6	3320.6	3159.3	2872.5	2496.1	2119.6	1828.3	1698.4	1662.5
15°	3616.4	3562.6	3414.7	3248.9	2948.7	2366.1	1756.6	1259.2	941.1	842.5	820.1
17.5°	3638.8	3562.6	3374.4	3150.3	2563.3	1716.3	999.3	663.2	560.2	537.7	537.7
20°	3647.7	3553.6	3320.6	2966.6	2047.9	1066.5	596.0	497.4	457.1	443.6	443.6
22.5°	3683.6	3558.1	3280.3	2702.2	1487.8	627.4	470.5	416.8	376.4	363.0	363.0
25°	3773.2	3611.9	3289.2	2366.1	954.5	475.0	398.8	345.1	304.7	286.8	286.8
27.5°	3916.6	3732.9	3338.5	1976.2	600.5	407.8	336.1	277.8	246.5	228.5	228.5
30°	4077.9	3867.3	3360.9	1528.1	448.1	345.1	273.4	219.6	197.2	183.7	179.2
32.5°	4360.3	4100.3	3343.0	1048.6	367.5	291.3	219.6	174.8	156.8	152.4	152.4
35°	4812.9	4508.1	3307.2	658.7	304.7	233.0	174.8	143.4	130.0	125.5	121.0
37.5°	5426.8	5104.1	3199.6	434.7	250.9	183.7	143.4	121.0	107.5	103.1	103.1
40°	6175.2	5785.3	2993.5	331.6	215.1	147.9	121.0	103.1	94.1	89.6	89.6
42.5°	7031.1	6542.6	2666.3	286.8	179.2	125.5	103.1	85.1	80.7	76.2	76.2
45°	7967.7	7335.8	2213.7	255.4	152.4	103.1	85.1	76.2	67.2	67.2	62.7
47.5°	8962.5	8133.5	1702.9	224.1	130.0	89.6	76.2	62.7	58.3	53.8	53.8
50°	9921.5	8846.0	1196.5	192.7	107.5	76.2	62.7	53.8	49.3	44.8	44.8
52.5°	10598.1	9276.2	847.0	165.8	89.6	67.2	49.3	40.3	35.8	35.8	35.8
55°	11140.4	9545.1	591.5	138.9	76.2	58.3	40.3	31.4	31.4	26.9	26.9
57.5°	11651.2	9719.8	434.7	116.5	62.7	44.8	31.4	22.4	22.4	17.9	17.9
60°	12180.0	9813.9	331.6	94.1	53.8	35.8	22.4	17.9	13.4	13.4	13.4
62.5°	12713.3	9872.2	255.4	76.2	44.8	26.9	17.9	13.4	9.0	4.5	4.5
65°	13179.3	9890.1	197.2	58.3	35.8	17.9	13.4	4.5	0.0	0.0	0.0
67.5°	13318.3	9684.0	152.4	44.8	26.9	13.4	9.0	0.0	0.0	0.0	0.0
70°	12941.8	9137.3	116.5	35.8	22.4	9.0	4.5	0.0	0.0	0.0	0.0
72.5°	11485.4	7662.9	89.6	22.4	17.9	9.0	4.5	0.0	0.0	0.0	0.0
75°	8218.6	4086.9	62.7	17.9	13.4	4.5	0.0	0.0	0.0	0.0	0.0
77.5°	3782.2	1581.9	44.8	13.4	9.0	4.5	0.0	0.0	0.0	0.0	0.0
80°	739.4	394.3	17.9	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	170.3	67.2	9.0	9.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	58.3	22.4	4.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.4	9.0	4.5	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)