

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: P400148

Luminaire Tested: **ARCH-L-PA3-240-740-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400148
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-PA3-240-740-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 1030mA 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: 22667 lumens
Efficiency: N/A
Efficacy: 93.7 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

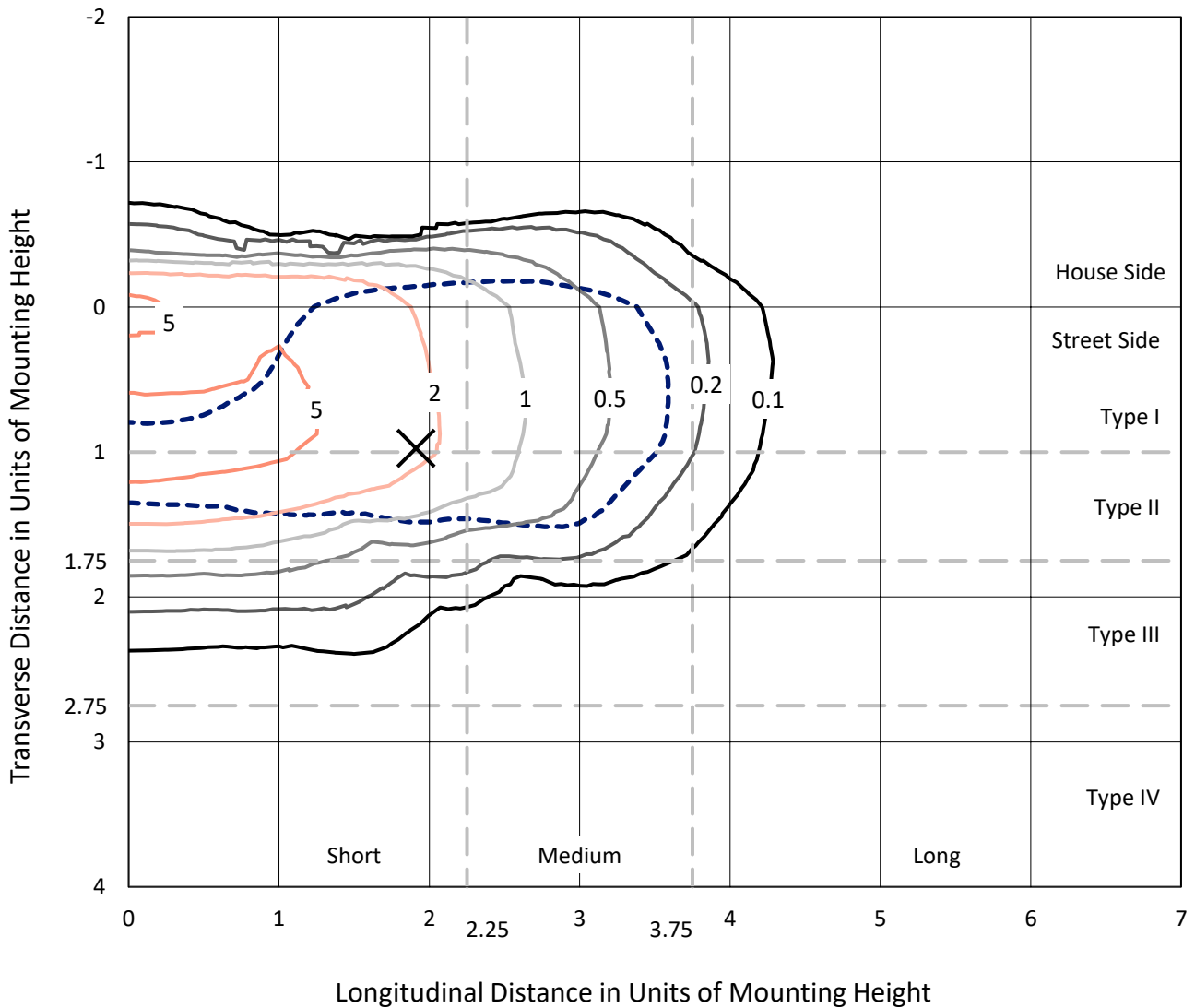
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

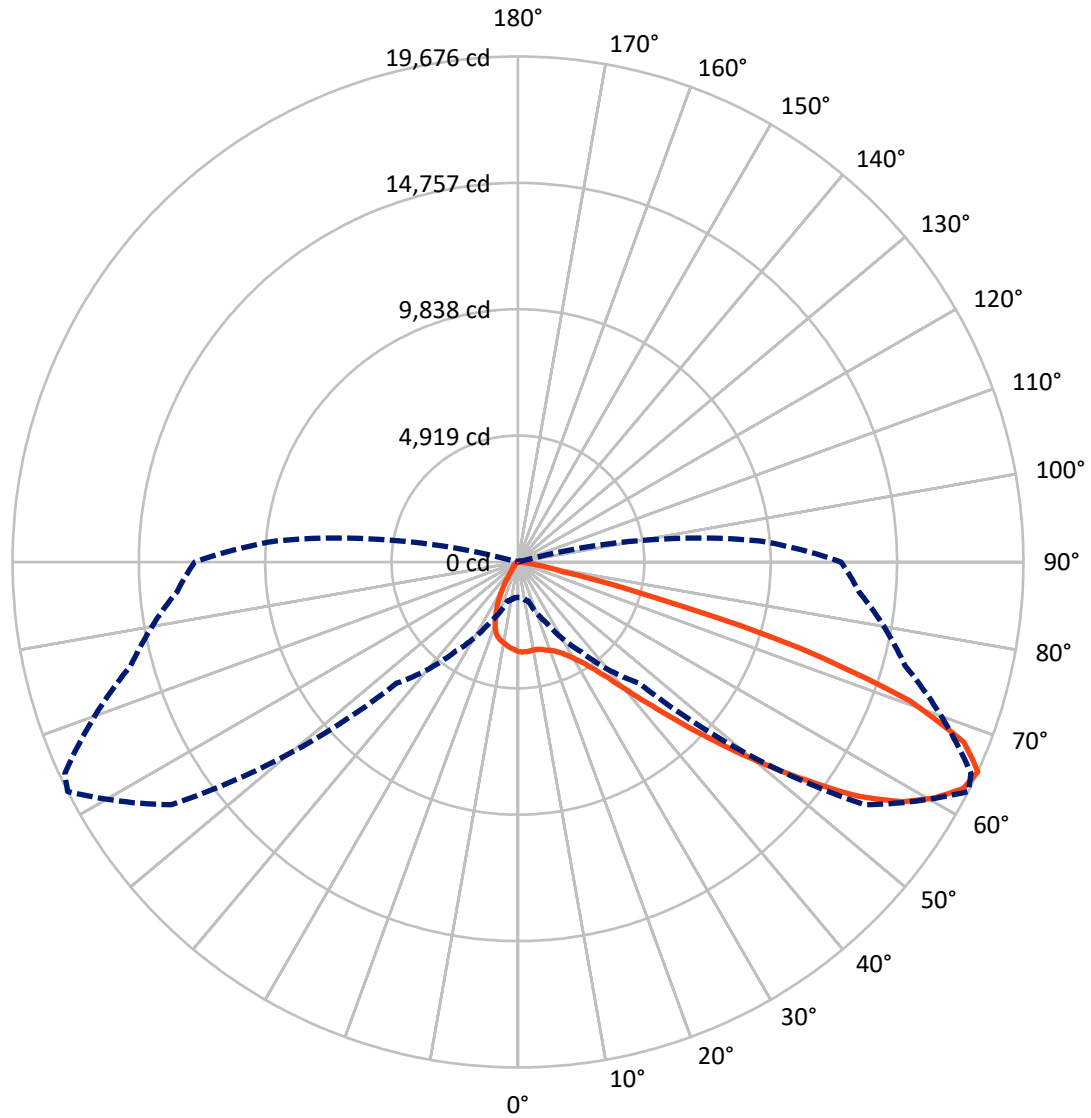
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	2917.2	0.0	2917.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	19749.8	0.0	19749.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	22667.0	0.0	22667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.6	1.4
10°-20°	786.0	3.5
20°-30°	1165.0	5.1
30°-40°	2163.1	9.5
40°-50°	4582.5	20.2
50°-60°	6336.4	28.0
60°-70°	5072.5	22.4
70°-80°	2107.5	9.3
80°-90°	135.3	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°	22667.0	100.0
0°-180°	22667.0	100.0

Coefficient of Utilization



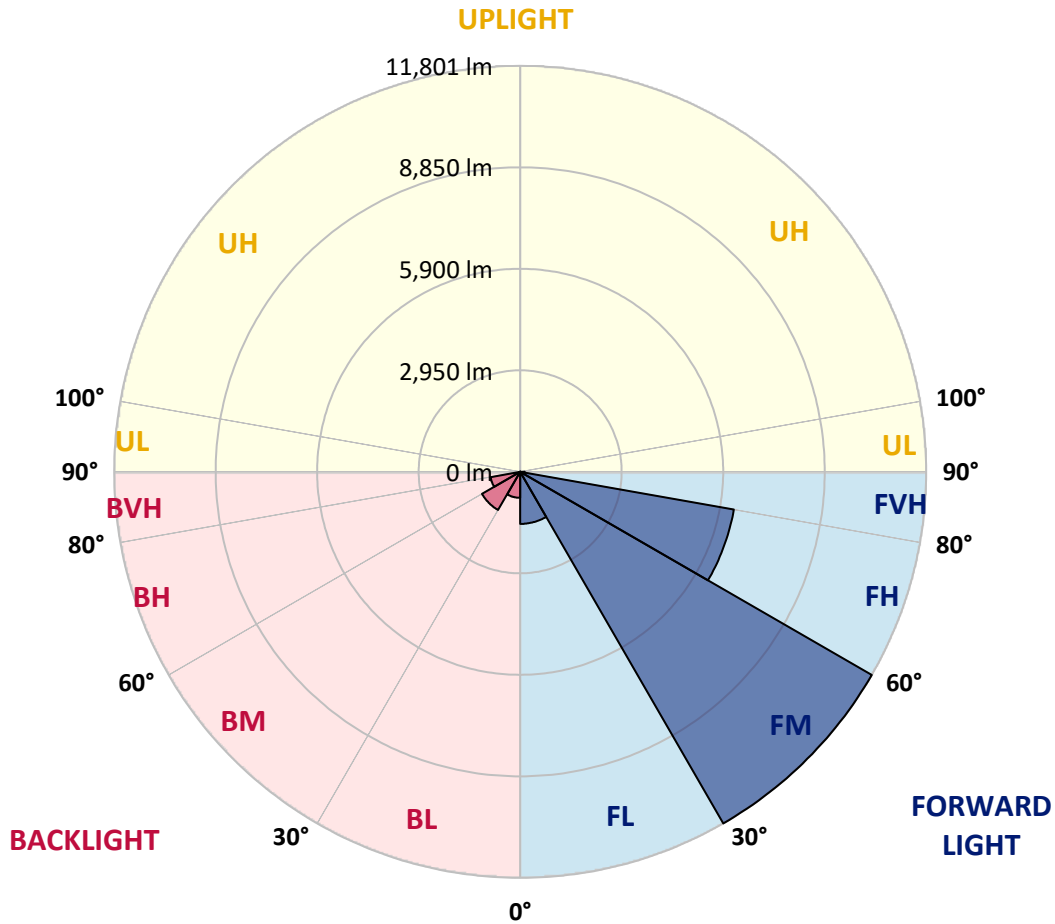
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.6	6.7			
FM (30°-60°)	11800.5	52.1			
FH (60°-80°)	6306.5	27.8			G3/7500
FVH (80°-90°)	129.1	0.6			G2/225
BL (0°-30°)	756.0	3.3	B2/1000		
BM (30°-60°)	1281.5	5.7	B2/2500		
BH (60°-80°)	873.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	6.2	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°	3491.9	3491.9	3491.9	3491.9	3491.9	3491.9	3491.9	3491.9	3491.9	3491.9	3491.9
2.5°	3551.8	3543.2	3534.7	3530.4	3530.4	3526.1	3509.0	3504.7	3496.1	3487.6	3479.0
5°	3517.5	3504.7	3500.4	3504.7	3509.0	3517.5	3509.0	3509.0	3500.4	3491.9	3474.7
7.5°	3432.0	3423.4	3427.7	3440.5	3444.8	3474.7	3479.0	3491.9	3491.9	3483.3	3470.5
10°	3329.3	3325.0	3325.0	3346.4	3367.8	3410.6	3440.5	3474.7	3479.0	3479.0	3457.6
12.5°	3252.2	3247.9	3260.8	3286.5	3329.3	3384.9	3436.2	3487.6	3496.1	3500.4	3466.2
15°	3205.2	3205.2	3222.3	3273.6	3333.5	3410.6	3470.5	3538.9	3547.5	3543.2	3496.1
17.5°	3162.4	3166.6	3200.9	3286.5	3354.9	3457.6	3530.4	3607.4	3611.7	3607.4	3530.4
20°	3145.2	3153.8	3205.2	3316.4	3393.4	3509.0	3603.1	3680.2	3684.4	3667.3	3564.6
22.5°	3192.3	3196.6	3260.8	3380.6	3453.4	3581.7	3701.5	3774.3	3778.6	3752.9	3616.0
25°	3354.9	3354.9	3410.6	3513.3	3577.4	3705.8	3834.2	3919.8	3919.8	3889.8	3731.5
27.5°	3735.8	3701.5	3688.7	3718.7	3740.1	3877.0	4013.9	4120.9	4116.6	4073.8	3881.3
30°	4471.8	4386.2	4249.3	4095.2	4018.2	4112.4	4240.7	4377.7	4373.4	4304.9	4065.3
32.5°	5708.5	5584.4	5259.2	4852.7	4523.2	4416.2	4536.0	4685.8	4690.1	4608.7	4360.6
35°	7441.6	7244.8	6662.8	6097.9	5344.8	4938.2	4972.5	5135.1	5186.4	5143.7	4856.9
37.5°	9110.5	8930.8	8374.5	7591.4	6568.6	5738.5	5593.0	5734.2	5794.1	5794.1	5490.3
40°	10792.3	10582.6	10090.5	9303.1	8224.7	6988.0	6465.9	6581.5	6645.7	6658.5	6260.5
42.5°	12140.2	12003.3	11626.7	11014.8	10004.9	9179.0	7724.0	7659.8	7719.8	7672.7	7154.9
45°	13073.1	12966.1	12705.1	12474.0	11981.9	11566.8	9405.8	8973.6	9012.1	8849.5	8160.5
47.5°	13265.7	13145.8	13090.2	13411.2	13762.1	13864.8	11472.7	10535.5	10497.0	10137.5	9204.7
50°	12426.9	12439.8	12645.2	13560.9	15024.4	15948.7	13869.0	12298.5	12157.3	11357.1	10176.0
52.5°	10616.8	10822.2	11340.0	12824.9	15409.6	17463.6	16265.4	14168.6	13950.3	12542.5	10903.5
55°	8306.0	8571.3	9422.9	11130.3	14605.1	18139.7	18285.2	16111.4	15615.0	13432.5	11468.4
57.5°	6174.9	6256.3	7249.0	8806.7	12700.8	17476.4	19320.8	17609.1	16971.5	14142.9	12029.0
60°	3847.0	3898.4	4946.8	6705.6	9619.7	15024.4	19320.8	18640.4	18032.7	14780.5	12542.5
62.5°	2392.1	2409.2	2802.9	4595.9	6538.7	11143.2	18520.6	19440.6	18952.8	15238.4	12983.2
65°	1377.9	1395.0	1579.0	2597.5	4253.6	6671.3	16475.1	19676.0	19457.7	15602.1	13325.6
67.5°	1005.6	1014.2	1086.9	1459.2	2781.5	3427.7	12375.6	18730.3	19004.1	15781.9	13317.0
70°	873.0	885.8	979.9	1138.3	2007.0	2105.4	6299.0	16175.5	16941.5	15525.1	12919.0
72.5°	671.8	689.0	830.2	1069.8	1472.1	1514.9	2280.8	11511.2	12670.8	13920.4	11827.8
75°	462.2	479.3	620.5	881.5	1215.3	1134.0	1253.8	5297.7	6684.2	9337.3	9003.5
77.5°	295.3	299.5	389.4	641.9	1048.4	804.5	860.1	1728.8	2426.3	4223.6	4249.3
80°	196.8	201.1	239.6	415.1	718.9	744.6	530.6	800.2	877.2	1232.4	855.8
82.5°	119.8	119.8	162.6	261.0	436.5	616.2	346.6	419.4	449.3	475.0	222.5
85°	47.1	47.1	98.4	171.2	273.9	286.7	218.2	243.9	256.8	278.2	102.7
87.5°	12.8	12.8	55.6	94.1	119.8	132.7	132.7	119.8	128.4	158.3	51.4
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°	3491.9	3491.9	3491.9	3491.9	3491.9	3491.9	3491.9	3491.9	3491.9	3491.9	3491.9
2.5°	3474.7	3461.9	3444.8	3427.7	3410.6	3397.7	3384.9	3384.9	3376.3	3363.5	3354.9
5°	3466.2	3444.8	3406.3	3376.3	3329.3	3295.0	3269.3	3247.9	3235.1	3205.2	3200.9
7.5°	3453.4	3427.7	3372.0	3312.1	3235.1	3175.2	3115.3	3072.5	3029.7	2995.5	2986.9
10°	3432.0	3402.0	3320.7	3235.1	3128.1	3016.9	2875.7	2713.0	2563.3	2477.7	2452.0
12.5°	3432.0	3393.4	3286.5	3170.9	3016.9	2743.0	2383.5	2024.1	1745.9	1621.8	1587.6
15°	3453.4	3402.0	3260.8	3102.5	2815.7	2259.4	1677.5	1202.5	898.6	804.5	783.1
17.5°	3474.7	3402.0	3222.3	3008.3	2447.7	1639.0	954.3	633.3	534.9	513.5	513.5
20°	3483.3	3393.4	3170.9	2832.9	1955.6	1018.5	569.1	475.0	436.5	423.6	423.6
22.5°	3517.5	3397.7	3132.4	2580.4	1420.7	599.1	449.3	398.0	359.5	346.6	346.6
25°	3603.1	3449.1	3141.0	2259.4	911.5	453.6	380.9	329.5	291.0	273.9	273.9
27.5°	3740.1	3564.6	3188.0	1887.1	573.4	389.4	320.9	265.3	235.4	218.2	218.2
30°	3894.1	3693.0	3209.4	1459.2	427.9	329.5	261.0	209.7	188.3	175.4	171.2
32.5°	4163.7	3915.5	3192.3	1001.3	350.9	278.2	209.7	166.9	149.8	145.5	145.5
35°	4595.9	4304.9	3158.1	629.0	291.0	222.5	166.9	136.9	124.1	119.8	115.5
37.5°	5182.2	4874.1	3055.4	415.1	239.6	175.4	136.9	115.5	102.7	98.4	98.4
40°	5896.8	5524.5	2858.5	316.7	205.4	141.2	115.5	98.4	89.9	85.6	85.6
42.5°	6714.1	6247.7	2546.2	273.9	171.2	119.8	98.4	81.3	77.0	72.7	72.7
45°	7608.5	7005.1	2113.9	243.9	145.5	98.4	81.3	72.7	64.2	64.2	59.9
47.5°	8558.5	7766.8	1626.1	214.0	124.1	85.6	72.7	59.9	55.6	51.4	51.4
50°	9474.2	8447.2	1142.6	184.0	102.7	72.7	59.9	51.4	47.1	42.8	42.8
52.5°	10120.4	8858.0	808.8	158.3	85.6	64.2	47.1	38.5	34.2	34.2	34.2
55°	10638.2	9114.8	564.9	132.7	72.7	55.6	38.5	30.0	30.0	25.7	25.7
57.5°	11126.0	9281.7	415.1	111.3	59.9	42.8	30.0	21.4	21.4	17.1	17.1
60°	11631.0	9371.5	316.7	89.9	51.4	34.2	21.4	17.1	12.8	12.8	12.8
62.5°	12140.2	9427.2	243.9	72.7	42.8	25.7	17.1	12.8	8.6	4.3	4.3
65°	12585.3	9444.3	188.3	55.6	34.2	17.1	12.8	4.3	0.0	0.0	0.0
67.5°	12717.9	9247.4	145.5	42.8	25.7	12.8	8.6	0.0	0.0	0.0	0.0
70°	12358.5	8725.4	111.3	34.2	21.4	8.6	4.3	0.0	0.0	0.0	0.0
72.5°	10967.7	7317.5	85.6	21.4	17.1	8.6	4.3	0.0	0.0	0.0	0.0
75°	7848.1	3902.7	59.9	17.1	12.8	4.3	0.0	0.0	0.0	0.0	0.0
77.5°	3611.7	1510.6	42.8	12.8	8.6	4.3	0.0	0.0	0.0	0.0	0.0
80°	706.1	376.6	17.1	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	162.6	64.2	8.6	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	55.6	21.4	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.4	8.6	4.3	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)