

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: P400364

Luminaire Tested: **ARCH-L-PA3-270-740-U-T2U-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400364  
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-PA3-270-740-U-T2U-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 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: 24387 lumens  
Efficiency: N/A  
Efficacy: 89.3 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

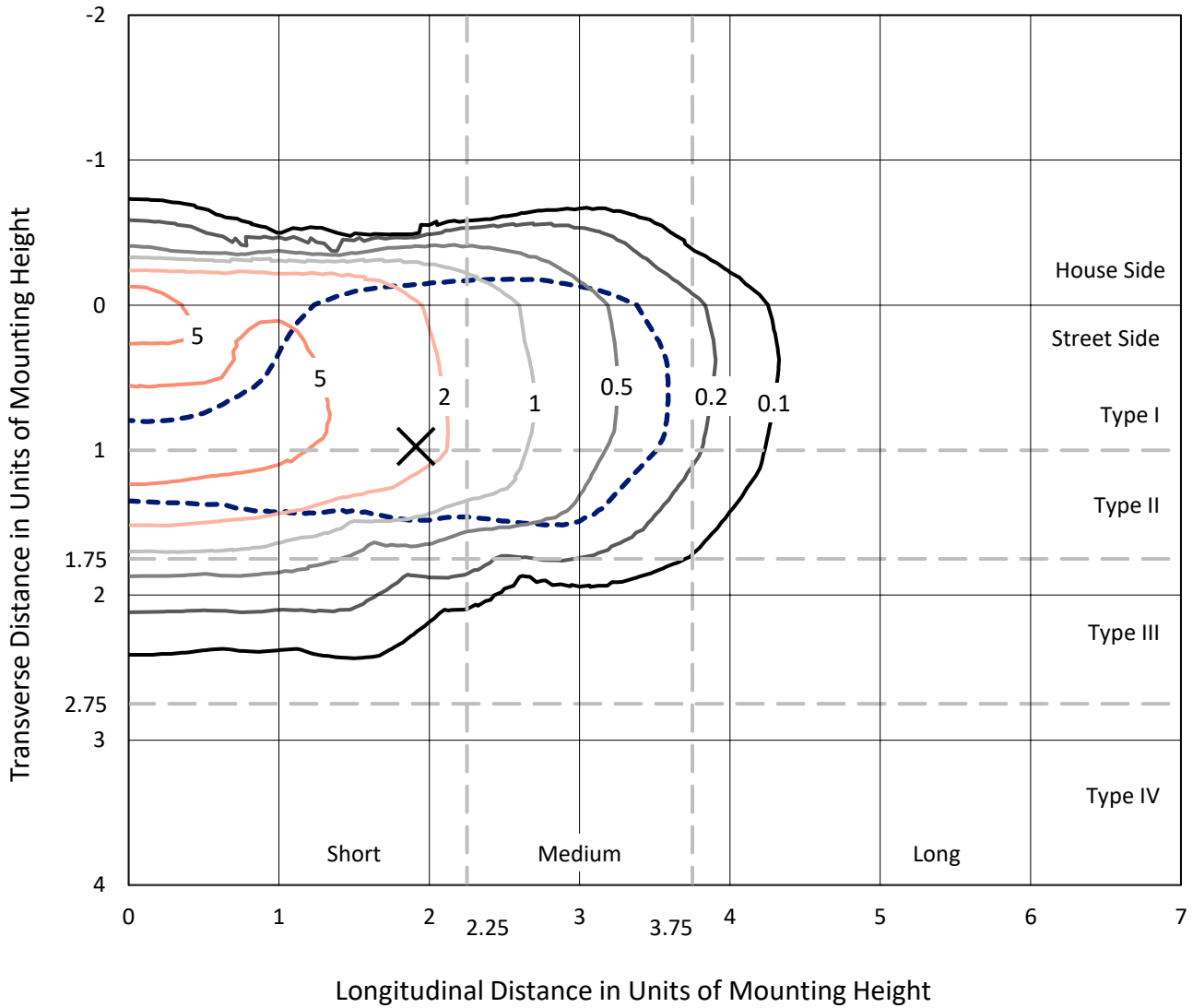
Input Watts (W): 273  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

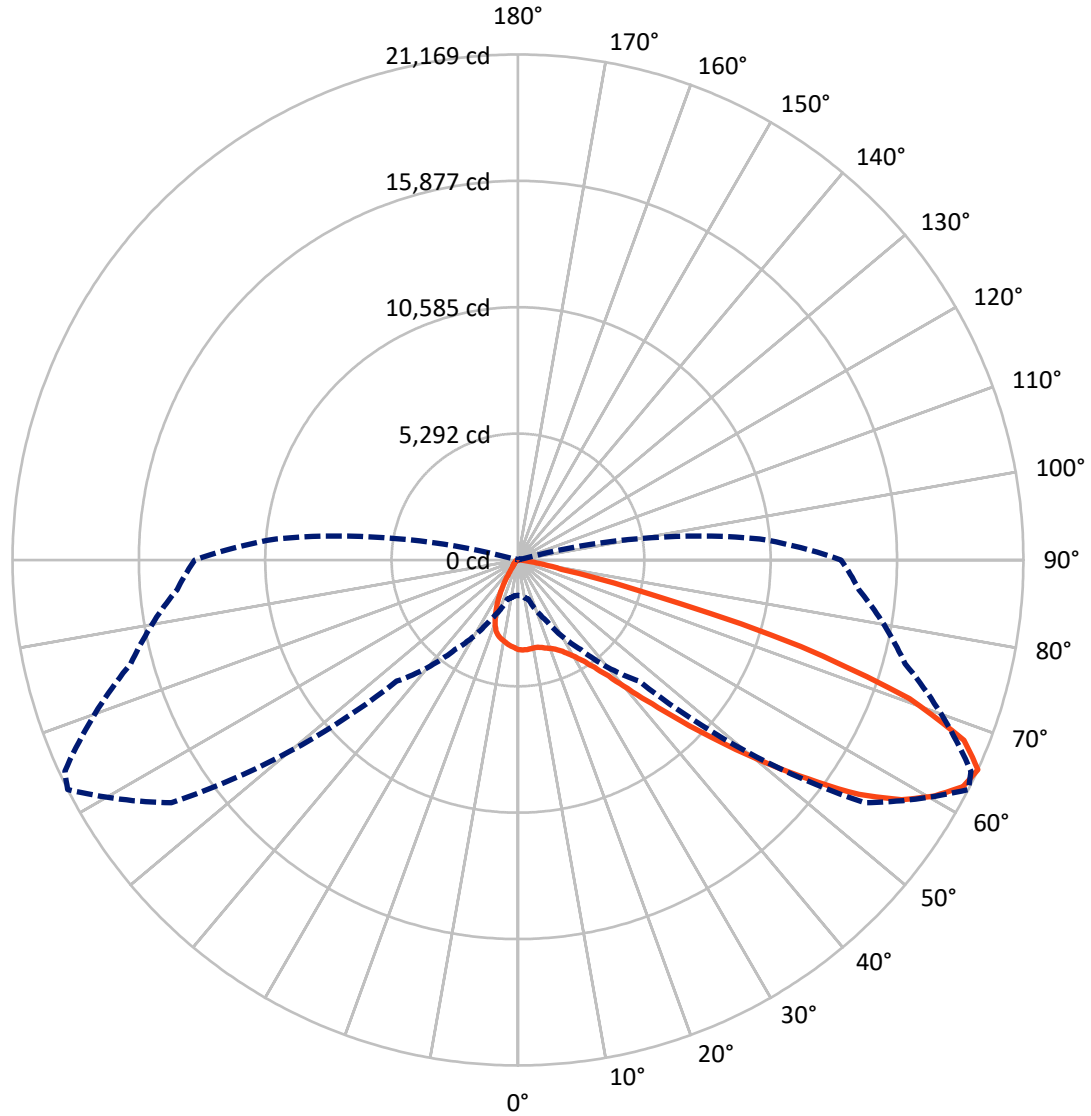
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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
<b>House Side</b>	Lumens	3138.6	0.0	3138.6
	% Fixture	12.9	0.0	12.9
<b>Street Side</b>	Lumens	21248.4	0.0	21248.4
	% Fixture	87.1	0.0	87.1
<b>Total</b>	Lumens	24387.0	0.0	24387.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	342.8	1.4
10°-20°	845.6	3.5
20°-30°	1253.4	5.1
30°-40°	2327.3	9.5
40°-50°	4930.2	20.2
50°-60°	6817.2	28.0
60°-70°	5457.4	22.4
70°-80°	2267.4	9.3
80°-90°	145.6	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°	24387.0	100.0
0°-180°	24387.0	100.0

**Coefficient of Utilization**

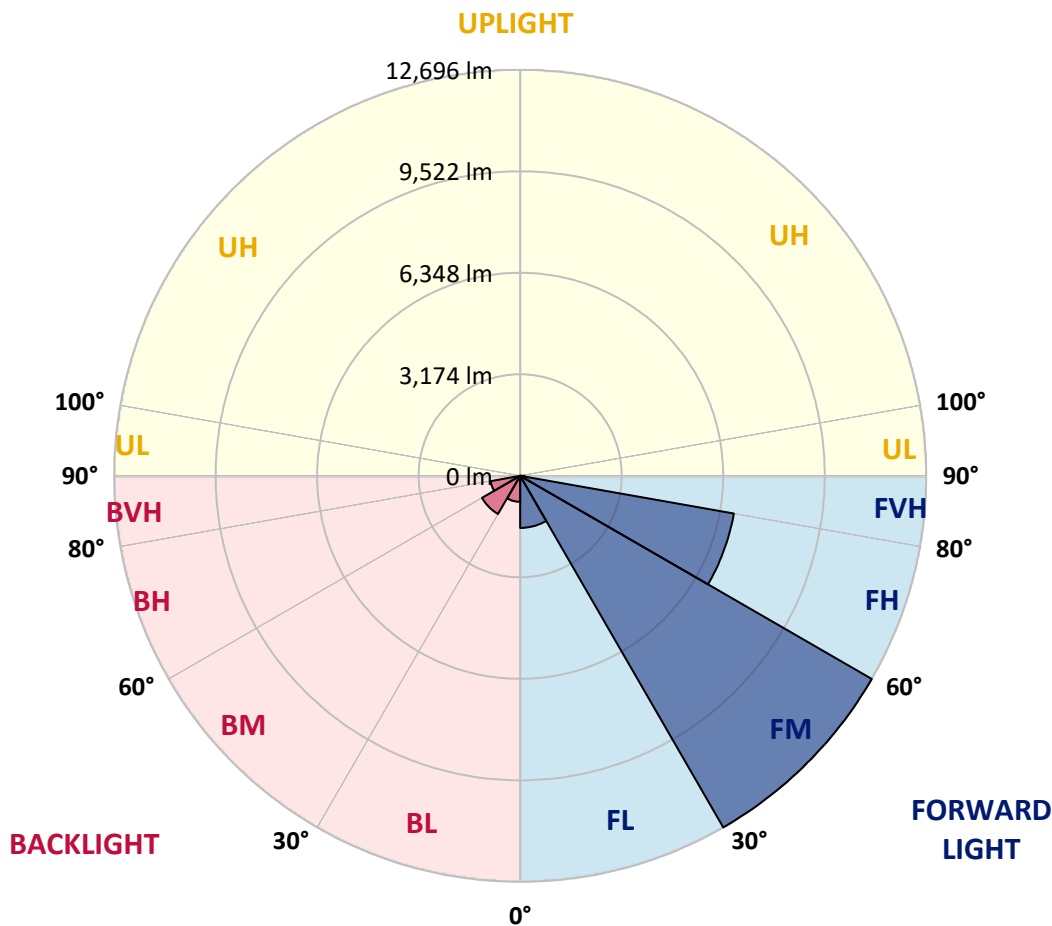


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1628.5	6.7			
FM (30°-60°)	12696.0	52.1			
FH (60°-80°)	6785.0	27.8			G3/7500
FVH (80°-90°)	139.0	0.6			G2/225
BL (0°-30°)	813.4	3.3	B2/1000		
BM (30°-60°)	1378.7	5.7	B2/2500		
BH (60°-80°)	939.8	3.9	B2/1000		G2/1000
BVH (80°-90°)	6.6	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-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3756.8	3756.8	3756.8	3756.8	3756.8	3756.8	3756.8	3756.8	3756.8	3756.8	3756.8
2.5°	3821.3	3812.1	3802.9	3798.3	3798.3	3793.7	3775.2	3770.6	3761.4	3752.2	3743.0
5°	3784.5	3770.6	3766.0	3770.6	3775.2	3784.5	3775.2	3775.2	3766.0	3756.8	3738.4
7.5°	3692.4	3683.2	3687.8	3701.6	3706.2	3738.4	3743.0	3756.8	3756.8	3747.6	3733.8
10°	3581.9	3577.3	3577.3	3600.3	3623.3	3669.4	3701.6	3738.4	3743.0	3743.0	3720.0
12.5°	3499.0	3494.4	3508.2	3535.8	3581.9	3641.7	3697.0	3752.2	3761.4	3766.0	3729.2
15°	3448.4	3448.4	3466.8	3522.0	3586.5	3669.4	3733.8	3807.5	3816.7	3812.1	3761.4
17.5°	3402.3	3406.9	3443.8	3535.8	3609.5	3720.0	3798.3	3881.1	3885.7	3881.1	3798.3
20°	3383.9	3393.1	3448.4	3568.1	3650.9	3775.2	3876.5	3959.4	3964.0	3945.6	3835.1
22.5°	3434.6	3439.2	3508.2	3637.1	3715.4	3853.5	3982.4	4060.7	4065.3	4037.7	3890.3
25°	3609.5	3609.5	3669.4	3779.9	3848.9	3987.0	4125.1	4217.2	4217.2	4185.0	4014.7
27.5°	4019.3	3982.4	3968.6	4000.8	4023.9	4171.2	4318.5	4433.6	4429.0	4383.0	4175.8
30°	4811.1	4719.1	4571.7	4406.0	4323.1	4424.4	4562.5	4709.8	4705.2	4631.6	4373.8
32.5°	6141.7	6008.2	5658.3	5220.9	4866.4	4751.3	4880.2	5041.3	5045.9	4958.5	4691.4
35°	8006.3	7794.5	7168.4	6560.6	5750.3	5313.0	5349.8	5524.8	5580.0	5534.0	5225.5
37.5°	9801.8	9608.5	9009.9	8167.4	7067.1	6173.9	6017.4	6169.3	6233.8	6233.8	5906.9
40°	11611.2	11385.6	10856.1	10009.0	8848.8	7518.3	6956.6	7080.9	7149.9	7163.8	6735.6
42.5°	13061.4	12914.1	12509.0	11850.6	10764.1	9875.5	8310.1	8241.1	8305.5	8254.9	7697.8
45°	14065.1	13950.0	13669.2	13420.5	12891.1	12444.5	10119.5	9654.5	9695.9	9521.0	8779.7
47.5°	14272.3	14143.4	14083.5	14428.8	14806.3	14916.8	12343.2	11334.9	11293.5	10906.8	9903.1
50°	13369.9	13383.7	13604.7	14589.9	16164.5	17159.0	14921.4	13231.8	13079.8	12218.9	10948.2
52.5°	11422.4	11643.4	12200.5	13798.1	16578.9	18788.8	17499.6	15243.7	15008.9	13494.2	11730.9
55°	8936.3	9221.7	10137.9	11974.9	15713.3	19516.2	19672.7	17333.9	16799.8	14451.8	12338.6
57.5°	6643.5	6731.0	7799.1	9474.9	13664.5	18802.6	20786.9	18945.3	18259.3	15216.1	12941.7
60°	4139.0	4194.2	5322.2	7214.4	10349.7	16164.5	20786.9	20054.8	19401.1	15902.1	13494.2
62.5°	2573.6	2592.0	3015.6	4944.7	7034.8	11988.7	19925.9	20915.8	20390.9	16394.7	13968.4
65°	1482.5	1500.9	1698.9	2794.6	4576.3	7177.6	17725.2	21169.0	20934.2	16786.0	14336.7
67.5°	1081.9	1091.1	1169.4	1569.9	2992.6	3687.8	13314.6	20151.5	20446.2	16979.4	14327.5
70°	939.2	953.0	1054.3	1224.7	2159.3	2265.1	6777.0	17403.0	18227.1	16703.2	13899.4
72.5°	722.8	741.2	893.2	1151.0	1583.8	1629.8	2453.9	12384.6	13632.3	14976.7	12725.3
75°	497.2	515.6	667.6	948.4	1307.5	1220.0	1349.0	5699.7	7191.4	10045.8	9686.7
77.5°	317.7	322.3	419.0	690.6	1128.0	865.5	925.4	1860.0	2610.4	4544.1	4571.7
80°	211.8	216.4	257.8	446.6	773.5	801.1	570.9	860.9	943.8	1325.9	920.8
82.5°	128.9	128.9	175.0	280.8	469.6	663.0	372.9	451.2	483.4	511.0	239.4
85°	50.6	50.6	105.9	184.2	294.7	308.5	234.8	262.4	276.2	299.3	110.5
87.5°	13.8	13.8	59.9	101.3	128.9	142.7	142.7	128.9	138.1	170.3	55.2
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°	3756.8	3756.8	3756.8	3756.8	3756.8	3756.8	3756.8	3756.8	3756.8	3756.8	3756.8
2.5°	3738.4	3724.6	3706.2	3687.8	3669.4	3655.5	3641.7	3641.7	3632.5	3618.7	3609.5
5°	3729.2	3706.2	3664.8	3632.5	3581.9	3545.0	3517.4	3494.4	3480.6	3448.4	3443.8
7.5°	3715.4	3687.8	3627.9	3563.5	3480.6	3416.1	3351.7	3305.6	3259.6	3222.8	3213.6
10°	3692.4	3660.1	3572.7	3480.6	3365.5	3245.8	3093.9	2918.9	2757.8	2665.7	2638.1
12.5°	3692.4	3650.9	3535.8	3411.5	3245.8	2951.1	2564.4	2177.7	1878.4	1744.9	1708.1
15°	3715.4	3660.1	3508.2	3337.9	3029.4	2430.9	1804.8	1293.7	966.8	865.5	842.5
17.5°	3738.4	3660.1	3466.8	3236.6	2633.5	1763.3	1026.7	681.4	575.5	552.5	552.5
20°	3747.6	3650.9	3411.5	3047.8	2104.0	1095.7	612.3	511.0	469.6	455.8	455.8
22.5°	3784.5	3655.5	3370.1	2776.2	1528.5	644.6	483.4	428.2	386.7	372.9	372.9
25°	3876.5	3710.8	3379.3	2430.9	980.6	488.0	409.8	354.5	313.1	294.7	294.7
27.5°	4023.9	3835.1	3429.9	2030.3	616.9	419.0	345.3	285.4	253.2	234.8	234.8
30°	4189.6	3973.2	3453.0	1569.9	460.4	354.5	280.8	225.6	202.6	188.8	184.2
32.5°	4479.7	4212.6	3434.6	1077.3	377.5	299.3	225.6	179.6	161.1	156.5	156.5
35°	4944.7	4631.6	3397.7	676.8	313.1	239.4	179.6	147.3	133.5	128.9	124.3
37.5°	5575.4	5243.9	3287.2	446.6	257.8	188.8	147.3	124.3	110.5	105.9	105.9
40°	6344.3	5943.7	3075.4	340.7	221.0	151.9	124.3	105.9	96.7	92.1	92.1
42.5°	7223.6	6721.8	2739.4	294.7	184.2	128.9	105.9	87.5	82.9	78.3	78.3
45°	8185.8	7536.7	2274.4	262.4	156.5	105.9	87.5	78.3	69.1	69.1	64.5
47.5°	9207.9	8356.2	1749.5	230.2	133.5	92.1	78.3	64.5	59.9	55.2	55.2
50°	10193.2	9088.2	1229.3	198.0	110.5	78.3	64.5	55.2	50.6	46.0	46.0
52.5°	10888.4	9530.2	870.1	170.3	92.1	69.1	50.6	41.4	36.8	36.8	36.8
55°	11445.4	9806.4	607.7	142.7	78.3	59.9	41.4	32.2	32.2	27.6	27.6
57.5°	11970.3	9986.0	446.6	119.7	64.5	46.0	32.2	23.0	23.0	18.4	18.4
60°	12513.6	10082.7	340.7	96.7	55.2	36.8	23.0	18.4	13.8	13.8	13.8
62.5°	13061.4	10142.5	262.4	78.3	46.0	27.6	18.4	13.8	9.2	4.6	4.6
65°	13540.2	10160.9	202.6	59.9	36.8	18.4	13.8	4.6	0.0	0.0	0.0
67.5°	13683.0	9949.2	156.5	46.0	27.6	13.8	9.2	0.0	0.0	0.0	0.0
70°	13296.2	9387.5	119.7	36.8	23.0	9.2	4.6	0.0	0.0	0.0	0.0
72.5°	11799.9	7872.8	92.1	23.0	18.4	9.2	4.6	0.0	0.0	0.0	0.0
75°	8443.7	4198.8	64.5	18.4	13.8	4.6	0.0	0.0	0.0	0.0	0.0
77.5°	3885.7	1625.2	46.0	13.8	9.2	4.6	0.0	0.0	0.0	0.0	0.0
80°	759.7	405.1	18.4	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	175.0	69.1	9.2	9.2	4.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	59.9	23.0	4.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.0	9.2	4.6	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)