

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: P400013

Luminaire Tested: **ARCH-L-PA3-220-750-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400013
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-PA3-220-750-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 21387 lumens
Efficiency: N/A
Efficacy: 96.3 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

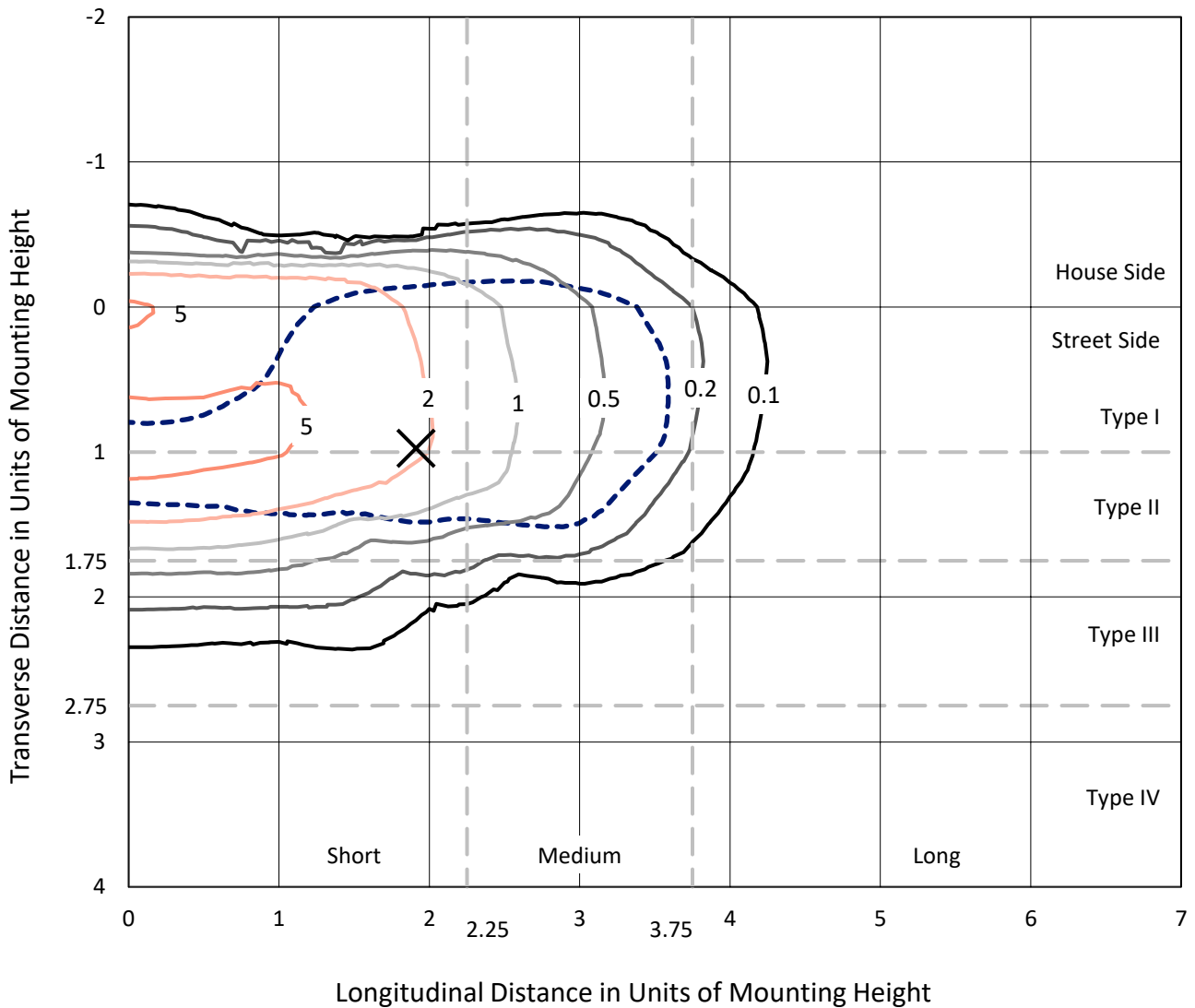
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

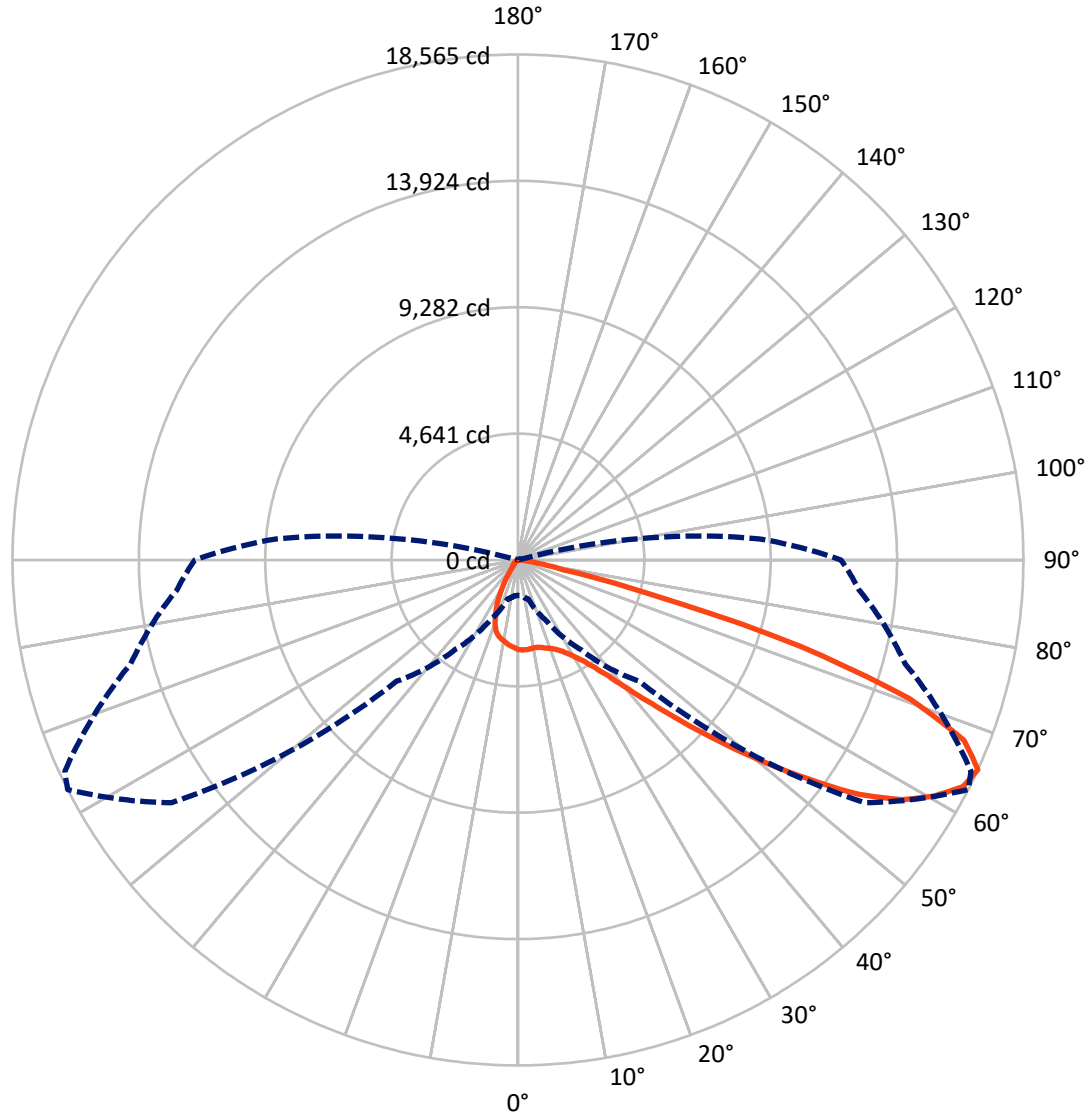
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
House Side	Lumens	2752.5	0.0	2752.5
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	18634.5	0.0	18634.5
	% Fixture	87.1	0.0	87.1
Total	Lumens	21387.0	0.0	21387.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.6	1.4
10°-20°	741.6	3.5
20°-30°	1099.2	5.1
30°-40°	2041.0	9.5
40°-50°	4323.7	20.2
50°-60°	5978.6	28.0
60°-70°	4786.1	22.4
70°-80°	1988.5	9.3
80°-90°	127.7	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°	21387.0	100.0
0°-180°	21387.0	100.0

Coefficient of Utilization



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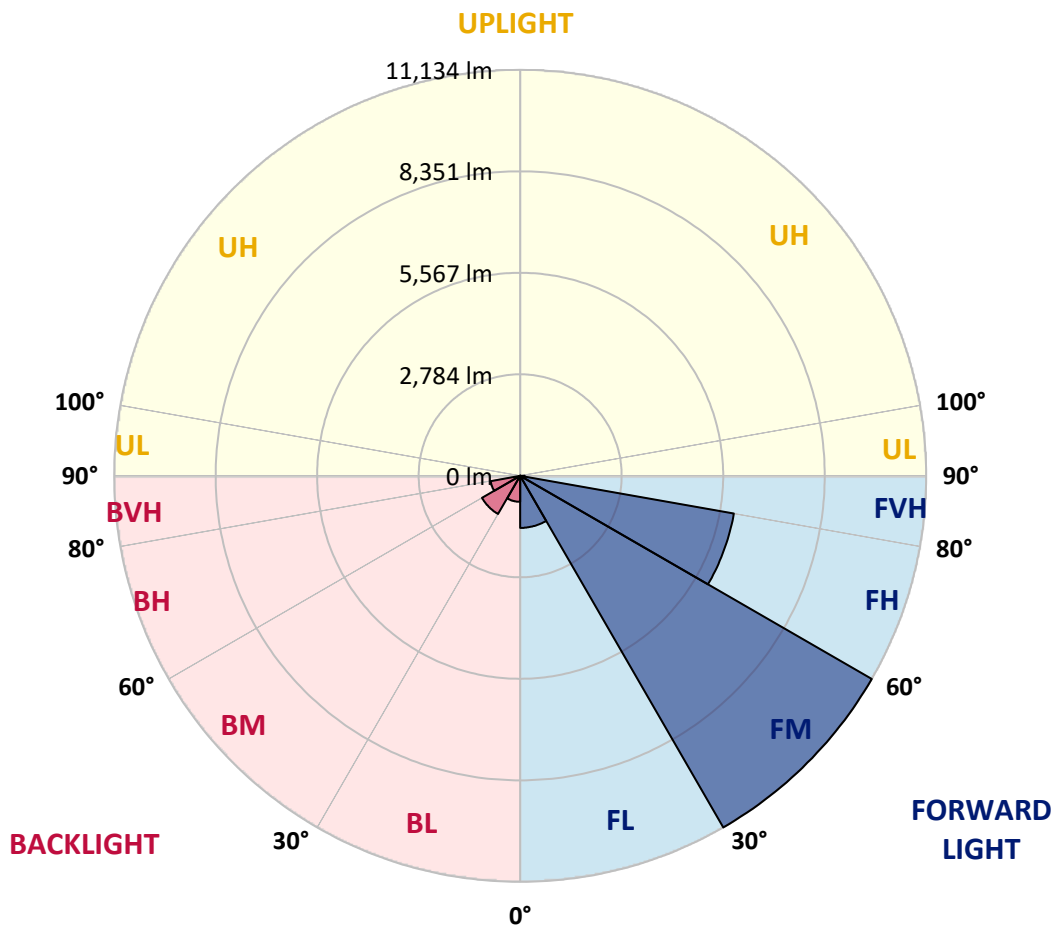
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1428.2	6.7			
FM (30°-60°)	11134.2	52.1			
FH (60°-80°)	5950.3	27.8			G3/7500
FVH (80°-90°)	121.9	0.6			G2/225
BL (0°-30°)	713.3	3.3	B2/1000		
BM (30°-60°)	1209.1	5.7	B2/2500		
BH (60°-80°)	824.2	3.9	B2/1000		G2/1000
BVH (80°-90°)	5.8	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°	3294.7	3294.7	3294.7	3294.7	3294.7	3294.7	3294.7	3294.7	3294.7	3294.7	3294.7
2.5°	3351.2	3343.1	3335.1	3331.0	3331.0	3327.0	3310.8	3306.8	3298.7	3290.6	3282.6
5°	3318.9	3306.8	3302.8	3306.8	3310.8	3318.9	3310.8	3310.8	3302.8	3294.7	3278.5
7.5°	3238.2	3230.1	3234.1	3246.2	3250.3	3278.5	3282.6	3294.7	3294.7	3286.6	3274.5
10°	3141.3	3137.2	3137.2	3157.4	3177.6	3218.0	3246.2	3278.5	3282.6	3282.6	3262.4
12.5°	3068.6	3064.5	3076.6	3100.9	3141.3	3193.7	3242.2	3290.6	3298.7	3302.8	3270.5
15°	3024.2	3024.2	3040.3	3088.8	3145.3	3218.0	3274.5	3339.1	3347.2	3343.1	3298.7
17.5°	2983.8	2987.8	3020.1	3100.9	3165.5	3262.4	3331.0	3403.7	3407.7	3403.7	3331.0
20°	2967.6	2975.7	3024.2	3129.1	3201.8	3310.8	3399.7	3472.3	3476.4	3460.2	3363.3
22.5°	3012.0	3016.1	3076.6	3189.7	3258.3	3379.5	3492.5	3561.2	3565.2	3541.0	3411.8
25°	3165.5	3165.5	3218.0	3314.9	3375.4	3496.6	3617.7	3698.4	3698.4	3670.2	3520.8
27.5°	3524.8	3492.5	3480.4	3508.7	3528.9	3658.1	3787.3	3888.2	3884.2	3843.8	3662.1
30°	4219.3	4138.5	4009.3	3864.0	3791.3	3880.1	4001.3	4130.5	4126.4	4061.8	3835.7
32.5°	5386.2	5269.1	4962.2	4578.6	4267.7	4166.8	4279.9	4421.2	4425.2	4348.5	4114.3
35°	7021.4	6835.7	6286.5	5753.6	5043.0	4659.4	4691.7	4845.1	4893.6	4853.2	4582.7
37.5°	8596.0	8426.5	7901.6	7162.7	6197.7	5414.4	5277.1	5410.4	5466.9	5466.9	5180.2
40°	10182.8	9985.0	9520.7	8777.7	7760.3	6593.4	6100.8	6209.8	6270.4	6282.5	5907.0
42.5°	11454.7	11325.5	10970.2	10392.8	9439.9	8660.6	7287.9	7227.3	7283.8	7239.4	6750.9
45°	12334.9	12233.9	11987.6	11769.6	11305.3	10913.6	8874.6	8466.8	8503.2	8349.7	7699.7
47.5°	12516.5	12403.5	12351.0	12653.8	12984.9	13081.8	10824.8	9940.6	9904.2	9565.1	8684.9
50°	11725.2	11737.3	11931.1	12795.1	14176.0	15048.1	13085.9	11604.1	11470.8	10715.8	9601.4
52.5°	10017.3	10211.1	10699.6	12100.7	14539.4	16477.4	15346.9	13368.5	13162.6	11834.2	10287.8
55°	7837.0	8087.3	8890.8	10501.8	13780.3	17115.4	17252.7	15201.6	14733.2	12674.0	10820.8
57.5°	5826.3	5903.0	6839.7	8309.4	11983.6	16489.5	18229.7	16614.7	16013.1	13344.3	11349.7
60°	3629.8	3678.3	4667.5	6326.9	9076.5	14176.0	18229.7	17587.8	17014.4	13945.9	11834.2
62.5°	2257.0	2273.2	2644.6	4336.4	6169.4	10513.9	17474.7	18342.8	17882.5	14377.9	12250.1
65°	1300.1	1316.3	1489.9	2450.8	4013.4	6294.6	15544.7	18564.9	18359.0	14721.1	12573.1
67.5°	948.8	956.9	1025.5	1376.8	2624.4	3234.1	11676.7	17672.6	17931.0	14890.7	12565.0
70°	823.7	835.8	924.6	1074.0	1893.6	1986.5	5943.3	15262.1	15984.8	14648.4	12189.5
72.5°	633.9	650.1	783.3	1009.4	1388.9	1429.3	2152.0	10861.1	11955.3	13134.3	11159.9
75°	436.1	452.2	585.5	831.7	1146.7	1070.0	1183.0	4998.5	6306.7	8810.0	8495.1
77.5°	278.6	282.6	367.4	605.6	989.2	759.1	811.6	1631.2	2289.3	3985.1	4009.3
80°	185.7	189.8	226.1	391.6	678.3	702.5	500.7	755.0	827.7	1162.8	807.5
82.5°	113.1	113.1	153.4	246.3	411.8	581.4	327.0	395.7	423.9	448.2	210.0
85°	44.4	44.4	92.9	161.5	258.4	270.5	205.9	230.1	242.3	262.4	96.9
87.5°	12.1	12.1	52.5	88.8	113.1	125.2	125.2	113.1	121.1	149.4	48.5
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°	3294.7	3294.7	3294.7	3294.7	3294.7	3294.7	3294.7	3294.7	3294.7	3294.7	3294.7
2.5°	3278.5	3266.4	3250.3	3234.1	3218.0	3205.9	3193.7	3193.7	3185.7	3173.6	3165.5
5°	3270.5	3250.3	3213.9	3185.7	3141.3	3108.9	3084.7	3064.5	3052.4	3024.2	3020.1
7.5°	3258.3	3234.1	3181.6	3125.1	3052.4	2995.9	2939.4	2899.0	2858.6	2826.3	2818.2
10°	3238.2	3209.9	3133.2	3052.4	2951.5	2846.5	2713.3	2559.8	2418.5	2337.8	2313.5
12.5°	3238.2	3201.8	3100.9	2991.9	2846.5	2588.1	2248.9	1909.8	1647.3	1530.2	1497.9
15°	3258.3	3209.9	3076.6	2927.3	2656.7	2131.9	1582.7	1134.6	847.9	759.1	738.9
17.5°	3278.5	3209.9	3040.3	2838.4	2309.5	1546.4	900.4	597.6	504.7	484.5	484.5
20°	3286.6	3201.8	2991.9	2672.9	1845.2	960.9	537.0	448.2	411.8	399.7	399.7
22.5°	3318.9	3205.9	2955.5	2434.7	1340.5	565.3	423.9	375.5	339.2	327.0	327.0
25°	3399.7	3254.3	2963.6	2131.9	860.0	428.0	359.3	310.9	274.6	258.4	258.4
27.5°	3528.9	3363.3	3008.0	1780.6	541.0	367.4	302.8	250.3	222.1	205.9	205.9
30°	3674.2	3484.4	3028.2	1376.8	403.8	310.9	246.3	197.8	177.7	165.5	161.5
32.5°	3928.6	3694.4	3012.0	944.8	331.1	262.4	197.8	157.5	141.3	137.3	137.3
35°	4336.4	4061.8	2979.7	593.5	274.6	210.0	157.5	129.2	117.1	113.1	109.0
37.5°	4889.5	4598.8	2882.8	391.6	226.1	165.5	129.2	109.0	96.9	92.9	92.9
40°	5563.8	5212.5	2697.1	298.8	193.8	133.2	109.0	92.9	84.8	80.8	80.8
42.5°	6335.0	5894.9	2402.4	258.4	161.5	113.1	92.9	76.7	72.7	68.6	68.6
45°	7178.8	6609.5	1994.6	230.1	137.3	92.9	76.7	68.6	60.6	60.6	56.5
47.5°	8075.2	7328.2	1534.3	201.9	117.1	80.8	68.6	56.5	52.5	48.5	48.5
50°	8939.2	7970.2	1078.0	173.6	96.9	68.6	56.5	48.5	44.4	40.4	40.4
52.5°	9548.9	8357.8	763.1	149.4	80.8	60.6	44.4	36.3	32.3	32.3	32.3
55°	10037.5	8600.1	533.0	125.2	68.6	52.5	36.3	28.3	28.3	24.2	24.2
57.5°	10497.8	8757.5	391.6	105.0	56.5	40.4	28.3	20.2	20.2	16.2	16.2
60°	10974.2	8842.3	298.8	84.8	48.5	32.3	20.2	16.2	12.1	12.1	12.1
62.5°	11454.7	8894.8	230.1	68.6	40.4	24.2	16.2	12.1	8.1	4.0	4.0
65°	11874.6	8911.0	177.7	52.5	32.3	16.2	12.1	4.0	0.0	0.0	0.0
67.5°	11999.7	8725.2	137.3	40.4	24.2	12.1	8.1	0.0	0.0	0.0	0.0
70°	11660.6	8232.7	105.0	32.3	20.2	8.1	4.0	0.0	0.0	0.0	0.0
72.5°	10348.4	6904.3	80.8	20.2	16.2	8.1	4.0	0.0	0.0	0.0	0.0
75°	7405.0	3682.3	56.5	16.2	12.1	4.0	0.0	0.0	0.0	0.0	0.0
77.5°	3407.7	1425.3	40.4	12.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0
80°	666.2	355.3	16.2	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	153.4	60.6	8.1	8.1	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	52.5	20.2	4.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.2	8.1	4.0	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)