

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: P400076

Luminaire Tested: **ARCH-L-PA3-230-740-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400076
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-PA3-230-740-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 980mA 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: 21924 lumens
Efficiency: N/A
Efficacy: 95.7 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

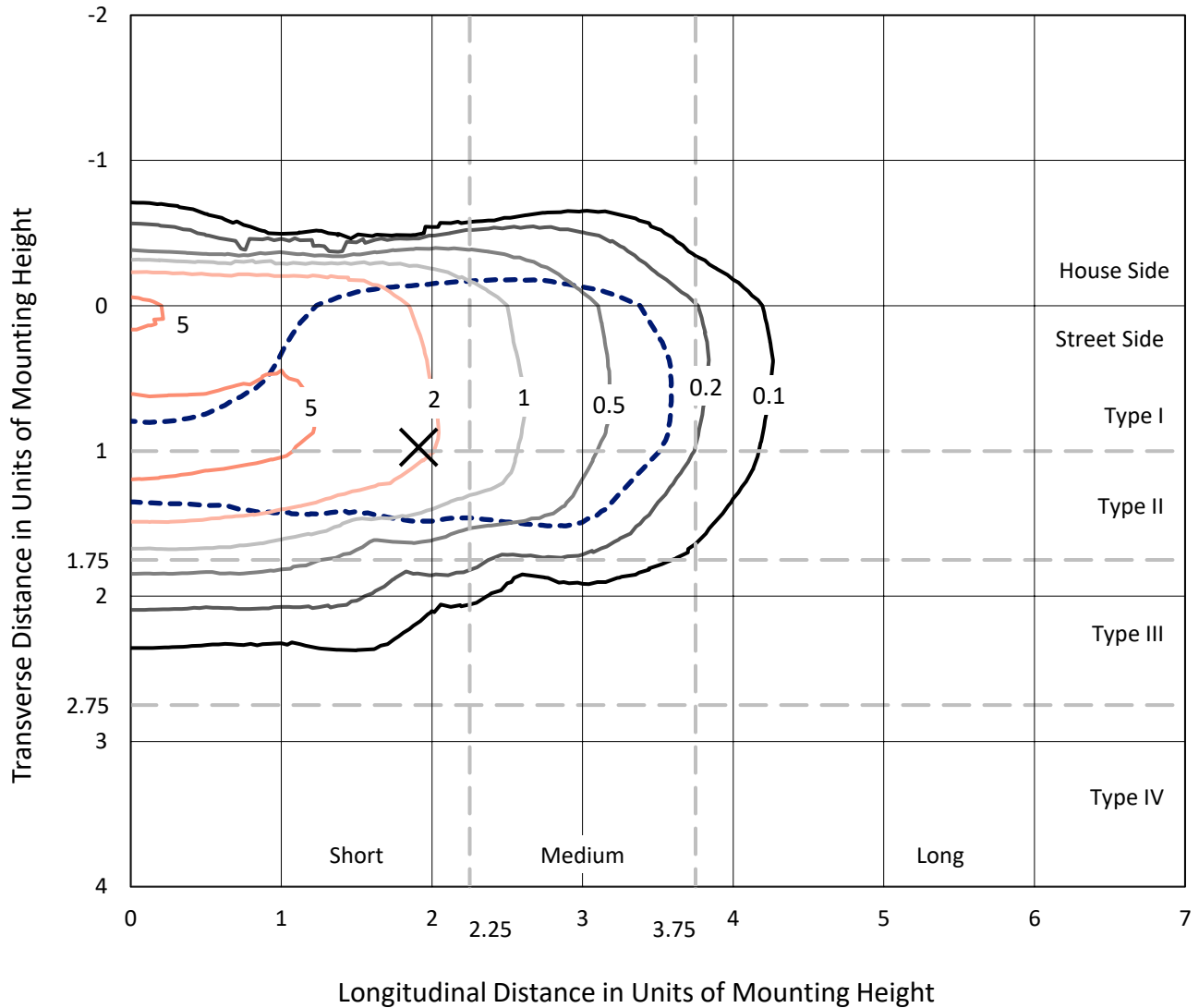
Input Watts (W): 229
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

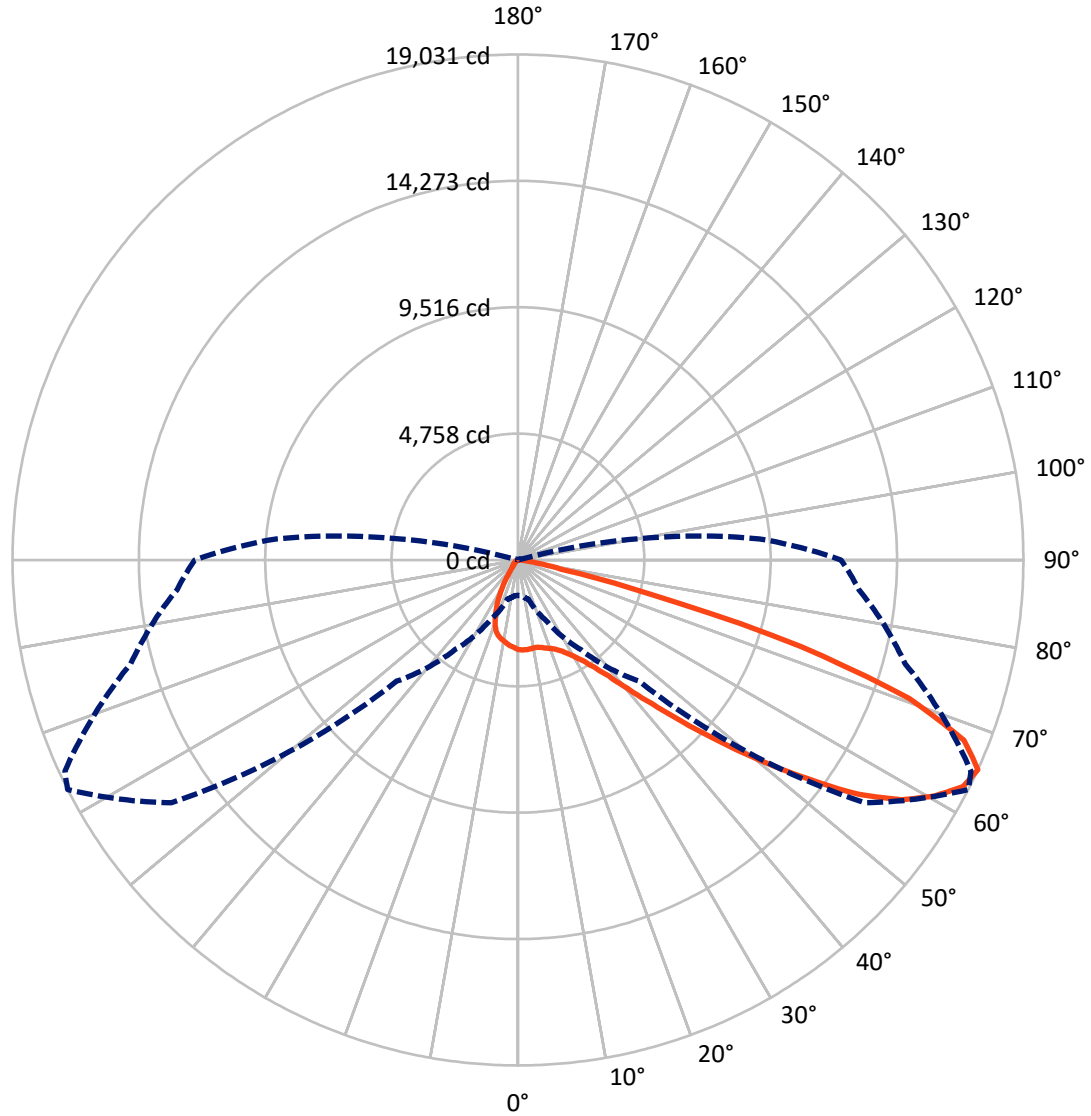
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	2821.6	0.0	2821.6
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	19102.4	0.0	19102.4
	% Fixture	87.1	0.0	87.1
Total	Lumens	21924.0	0.0	21924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.2	1.4
10°-20°	760.2	3.5
20°-30°	1126.8	5.1
30°-40°	2092.2	9.5
40°-50°	4432.3	20.2
50°-60°	6128.7	28.0
60°-70°	4906.2	22.4
70°-80°	2038.4	9.3
80°-90°	130.9	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°	21924.0	100.0
0°-180°	21924.0	100.0

Coefficient of Utilization



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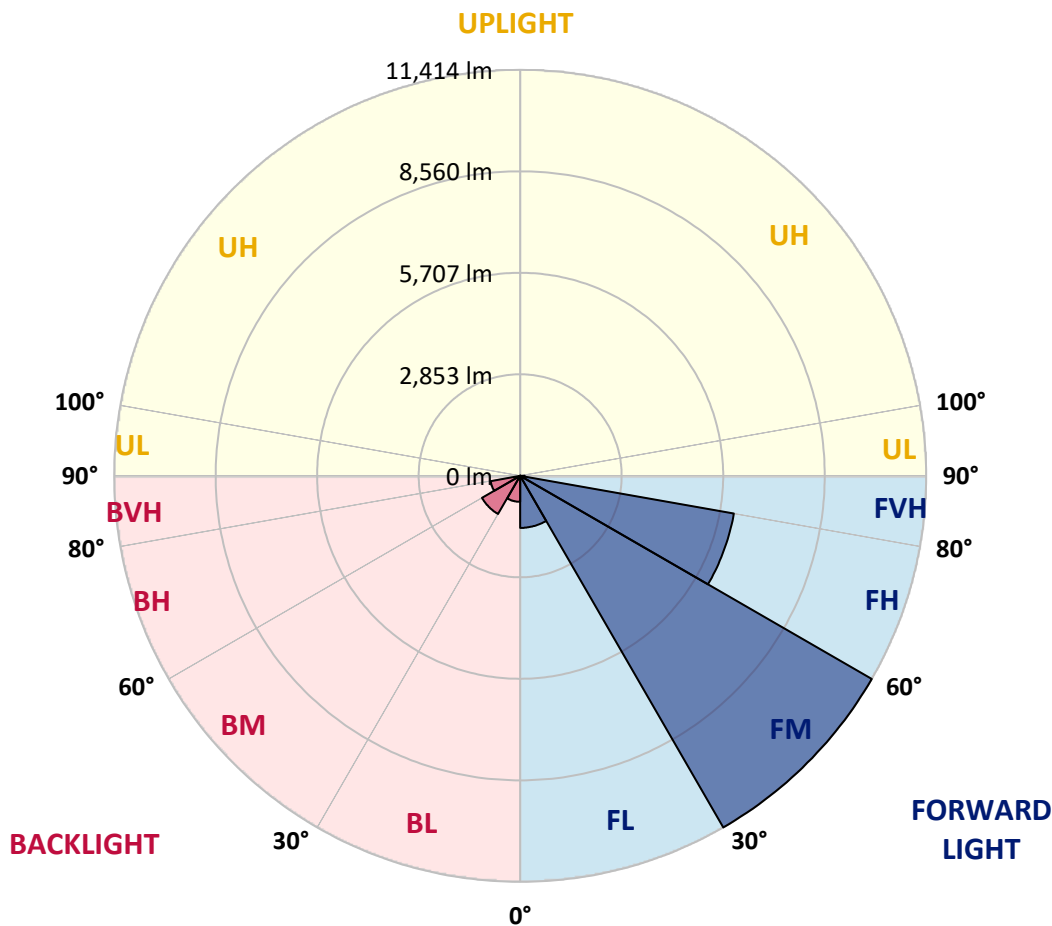
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1464.0	6.7			
FM (30°-60°)	11413.7	52.1			
FH (60°-80°)	6099.8	27.8			G3/7500
FVH (80°-90°)	124.9	0.6			G2/225
BL (0°-30°)	731.3	3.3	B2/1000		
BM (30°-60°)	1239.5	5.7	B2/2500		
BH (60°-80°)	844.9	3.9	B2/1000		G2/1000
BVH (80°-90°)	6.0	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°	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4
2.5°	3435.3	3427.1	3418.8	3414.7	3414.7	3410.5	3394.0	3389.8	3381.5	3373.3	3365.0
5°	3402.2	3389.8	3385.7	3389.8	3394.0	3402.2	3394.0	3394.0	3385.7	3377.4	3360.8
7.5°	3319.5	3311.2	3315.3	3327.7	3331.9	3360.8	3365.0	3377.4	3377.4	3369.1	3356.7
10°	3220.1	3216.0	3216.0	3236.7	3257.4	3298.8	3327.7	3360.8	3365.0	3365.0	3344.3
12.5°	3145.6	3141.5	3153.9	3178.7	3220.1	3273.9	3323.6	3373.3	3381.5	3385.7	3352.6
15°	3100.1	3100.1	3116.6	3166.3	3224.3	3298.8	3356.7	3422.9	3431.2	3427.1	3381.5
17.5°	3058.7	3062.8	3096.0	3178.7	3245.0	3344.3	3414.7	3489.2	3493.3	3489.2	3414.7
20°	3042.1	3050.4	3100.1	3207.7	3282.2	3394.0	3485.0	3559.5	3563.7	3547.1	3447.8
22.5°	3087.7	3091.8	3153.9	3269.8	3340.2	3464.3	3580.2	3650.6	3654.7	3629.9	3497.4
25°	3245.0	3245.0	3298.8	3398.1	3460.2	3584.4	3708.5	3791.3	3791.3	3762.3	3609.2
27.5°	3613.3	3580.2	3567.8	3596.8	3617.5	3749.9	3882.4	3985.8	3981.7	3940.3	3754.1
30°	4325.2	4242.4	4110.0	3961.0	3886.5	3977.6	4101.7	4234.2	4230.0	4163.8	3932.0
32.5°	5521.4	5401.4	5086.8	4693.6	4374.9	4271.4	4387.3	4532.2	4536.3	4457.7	4217.6
35°	7197.7	7007.3	6444.4	5898.0	5169.6	4776.4	4809.5	4966.8	5016.4	4975.0	4697.7
37.5°	8811.9	8638.0	8100.0	7342.5	6353.3	5550.4	5409.6	5546.2	5604.2	5604.2	5310.3
40°	10438.5	10235.7	9759.7	8998.1	7955.1	6758.9	6254.0	6365.7	6427.8	6440.2	6055.3
42.5°	11742.3	11609.8	11245.6	10653.7	9676.9	8878.1	7470.9	7408.8	7466.7	7421.2	6920.4
45°	12644.6	12541.1	12288.6	12065.1	11589.1	11187.7	9097.5	8679.4	8716.7	8559.4	7893.0
47.5°	12830.8	12714.9	12661.1	12971.5	13310.9	13410.3	11096.6	10190.2	10152.9	9805.2	8902.9
50°	12019.6	12032.0	12230.7	13116.4	14531.9	15426.0	13414.4	11895.4	11758.8	10984.8	9842.5
52.5°	10268.8	10467.5	10968.3	12404.5	14904.5	16891.2	15732.2	13704.1	13493.1	12131.3	10546.1
55°	8033.8	8290.4	9114.0	10765.5	14126.3	17545.1	17685.8	15583.2	15103.1	12992.2	11092.5
57.5°	5972.5	6051.2	7011.4	8518.0	12284.5	16903.6	18687.5	17031.9	16415.2	13679.3	11634.7
60°	3720.9	3770.6	4784.7	6485.8	9304.4	14531.9	18687.5	18029.4	17441.6	14296.0	12131.3
62.5°	2313.7	2330.2	2711.0	4445.3	6324.4	10777.9	17913.5	18803.4	18331.5	14738.9	12557.7
65°	1332.8	1349.3	1527.3	2512.4	4114.1	6452.7	15935.1	19031.0	18819.9	15090.7	12888.8
67.5°	972.7	980.9	1051.3	1411.4	2690.3	3315.3	11969.9	18116.3	18381.2	15264.5	12880.5
70°	844.4	856.8	947.8	1101.0	1941.2	2036.4	6092.6	15645.3	16386.2	15016.2	12495.6
72.5°	649.8	666.4	803.0	1034.7	1423.8	1465.2	2206.1	11133.8	12255.5	13464.1	11440.1
75°	447.0	463.6	600.2	852.6	1175.5	1096.8	1212.7	5124.1	6465.1	9031.2	8708.4
77.5°	285.6	289.7	376.6	620.8	1014.0	778.1	831.9	1672.1	2346.8	4085.2	4110.0
80°	190.4	194.5	231.8	401.5	695.3	720.2	513.2	774.0	848.5	1192.0	827.8
82.5°	115.9	115.9	157.3	252.5	422.2	596.0	335.3	405.6	434.6	459.4	215.2
85°	45.5	45.5	95.2	165.6	264.9	277.3	211.1	235.9	248.3	269.0	99.3
87.5°	12.4	12.4	53.8	91.1	115.9	128.3	128.3	115.9	124.2	153.1	49.7
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°	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4	3377.4
2.5°	3360.8	3348.4	3331.9	3315.3	3298.8	3286.3	3273.9	3273.9	3265.7	3253.2	3245.0
5°	3352.6	3331.9	3294.6	3265.7	3220.1	3187.0	3162.2	3141.5	3129.1	3100.1	3096.0
7.5°	3340.2	3315.3	3261.5	3203.6	3129.1	3071.1	3013.2	2971.8	2930.4	2897.3	2889.0
10°	3319.5	3290.5	3211.8	3129.1	3025.6	2918.0	2781.4	2624.1	2479.2	2396.5	2371.6
12.5°	3319.5	3282.2	3178.7	3067.0	2918.0	2653.1	2305.4	1957.7	1688.7	1568.7	1535.6
15°	3340.2	3290.5	3153.9	3000.8	2723.4	2185.4	1622.5	1163.1	869.2	778.1	757.4
17.5°	3360.8	3290.5	3116.6	2909.7	2367.5	1585.2	923.0	612.6	517.4	496.7	496.7
20°	3369.1	3282.2	3067.0	2740.0	1891.5	985.1	550.5	459.4	422.2	409.8	409.8
22.5°	3402.2	3286.3	3029.7	2495.8	1374.1	579.5	434.6	384.9	347.7	335.3	335.3
25°	3485.0	3336.0	3038.0	2185.4	881.6	438.7	368.4	318.7	281.5	264.9	264.9
27.5°	3617.5	3447.8	3083.5	1825.3	554.6	376.6	310.4	256.6	227.6	211.1	211.1
30°	3766.5	3571.9	3104.2	1411.4	413.9	318.7	252.5	202.8	182.1	169.7	165.6
32.5°	4027.2	3787.2	3087.7	968.5	339.4	269.0	202.8	161.4	144.9	140.7	140.7
35°	4445.3	4163.8	3054.6	608.4	281.5	215.2	161.4	132.4	120.0	115.9	111.8
37.5°	5012.3	4714.3	2955.2	401.5	231.8	169.7	132.4	111.8	99.3	95.2	95.2
40°	5703.5	5343.4	2764.8	306.3	198.7	136.6	111.8	95.2	86.9	82.8	82.8
42.5°	6494.1	6042.9	2462.7	264.9	165.6	115.9	95.2	78.6	74.5	70.4	70.4
45°	7359.1	6775.5	2044.7	235.9	140.7	95.2	78.6	70.4	62.1	62.1	57.9
47.5°	8278.0	7512.2	1572.8	206.9	120.0	82.8	70.4	57.9	53.8	49.7	49.7
50°	9163.7	8170.3	1105.1	178.0	99.3	70.4	57.9	49.7	45.5	41.4	41.4
52.5°	9788.7	8567.7	782.3	153.1	82.8	62.1	45.5	37.3	33.1	33.1	33.1
55°	10289.5	8816.0	546.3	128.3	70.4	53.8	37.3	29.0	29.0	24.8	24.8
57.5°	10761.3	8977.4	401.5	107.6	57.9	41.4	29.0	20.7	20.7	16.6	16.6
60°	11249.7	9064.4	306.3	86.9	49.7	33.1	20.7	16.6	12.4	12.4	12.4
62.5°	11742.3	9118.2	235.9	70.4	41.4	24.8	16.6	12.4	8.3	4.1	4.1
65°	12172.7	9134.7	182.1	53.8	33.1	16.6	12.4	4.1	0.0	0.0	0.0
67.5°	12301.0	8944.3	140.7	41.4	24.8	12.4	8.3	0.0	0.0	0.0	0.0
70°	11953.4	8439.4	107.6	33.1	20.7	8.3	4.1	0.0	0.0	0.0	0.0
72.5°	10608.2	7077.6	82.8	20.7	16.6	8.3	4.1	0.0	0.0	0.0	0.0
75°	7590.9	3774.7	57.9	16.6	12.4	4.1	0.0	0.0	0.0	0.0	0.0
77.5°	3493.3	1461.1	41.4	12.4	8.3	4.1	0.0	0.0	0.0	0.0	0.0
80°	682.9	364.2	16.6	8.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	157.3	62.1	8.3	8.3	4.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	53.8	20.7	4.1	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.7	8.3	4.1	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)