

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: P399372

Luminaire Tested: **ARCH-L-PA3-130-760-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399372  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-130-760-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16859 lumens  
Efficiency: N/A  
Efficacy: 126.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

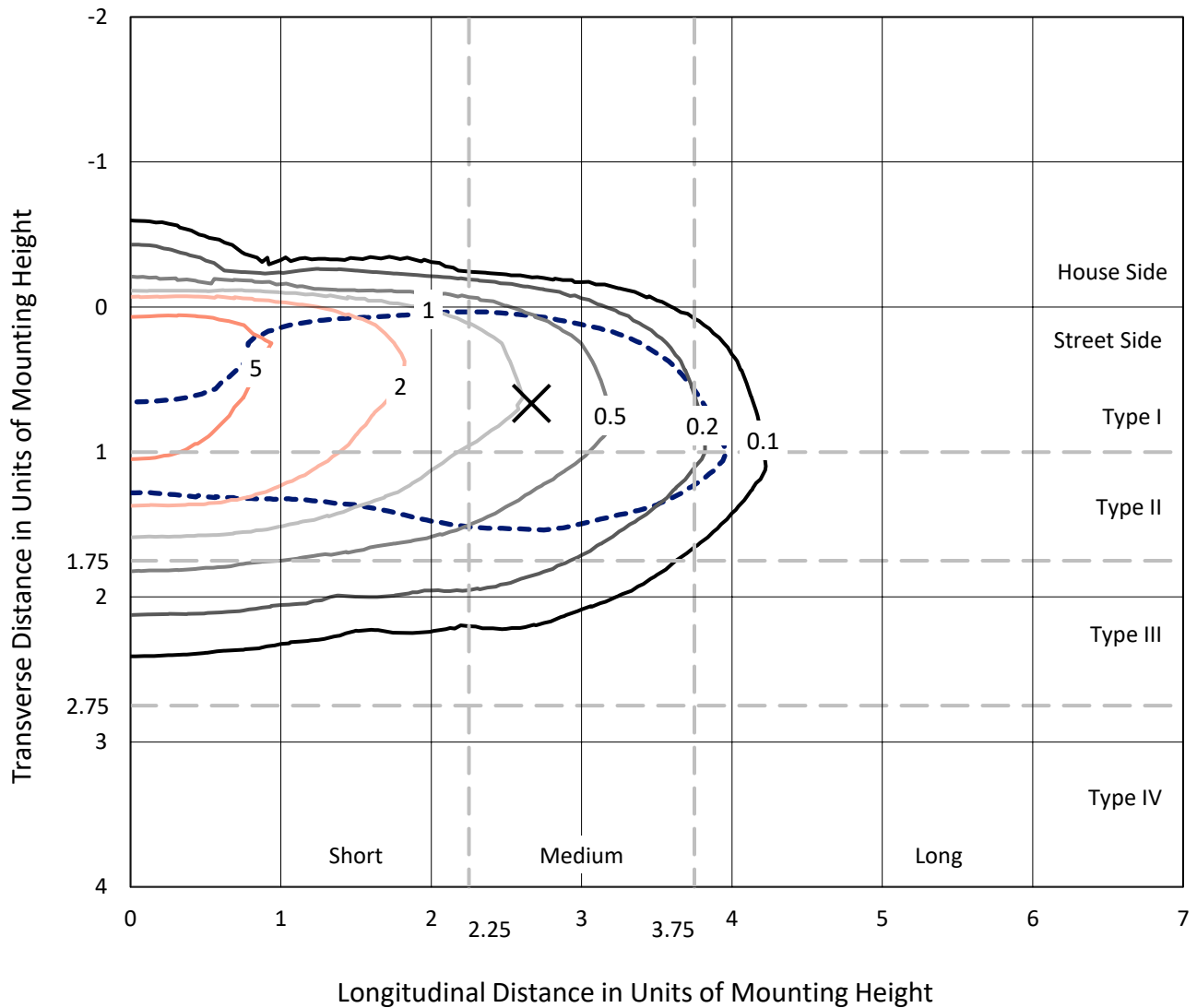
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

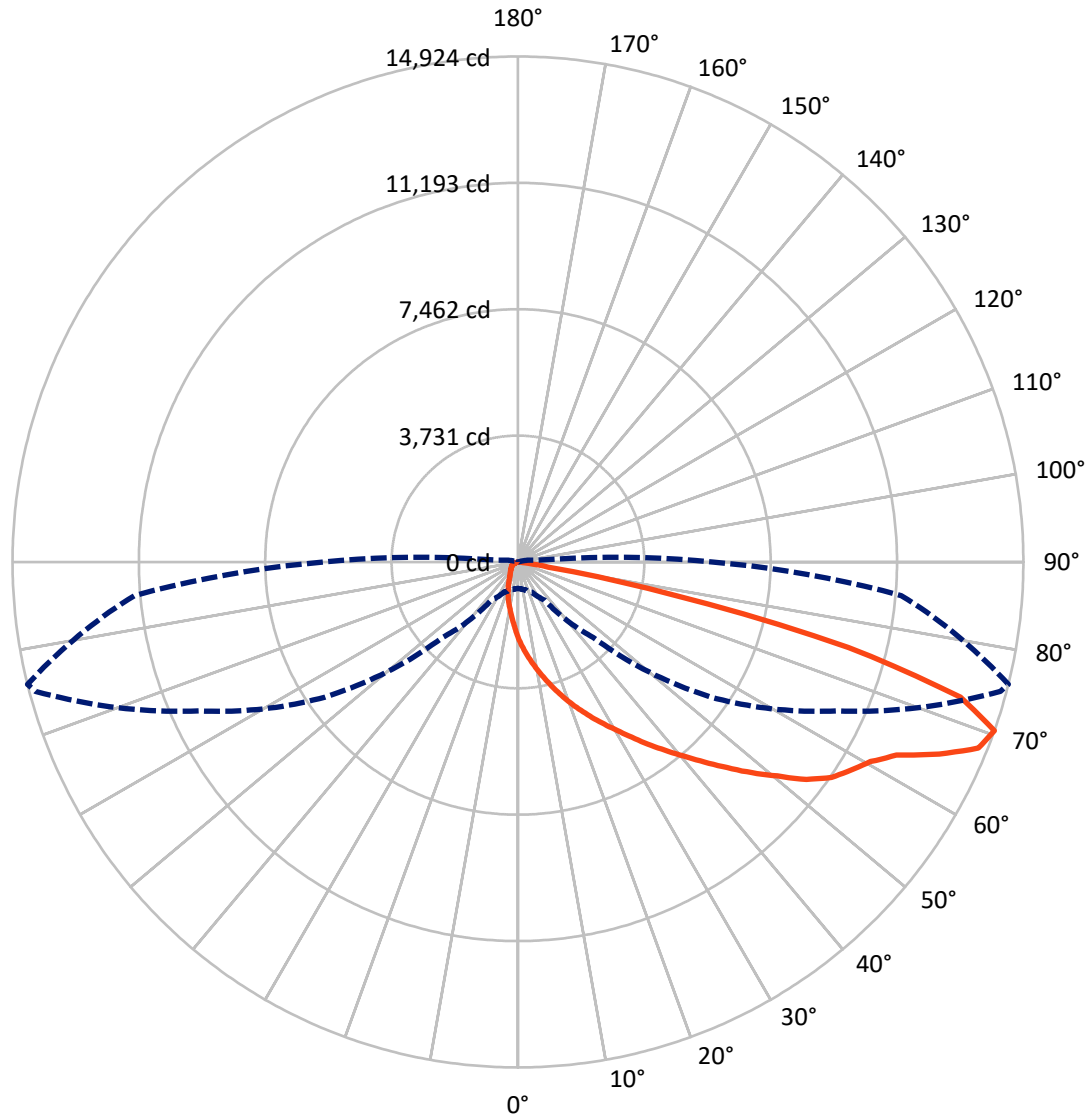
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	795.1	0.0	795.1
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	16063.9	0.0	16063.9
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	16859.0	0.0	16859.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.6	1.3
10°-20°	686.2	4.1
20°-30°	1277.9	7.6
30°-40°	2260.3	13.4
40°-50°	3456.5	20.5
50°-60°	3918.8	23.2
60°-70°	3359.4	19.9
70°-80°	1627.1	9.7
80°-90°	60.4	0.4
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°	16859.0	100.0
0°-180°	16859.0	100.0

**Coefficient of Utilization**



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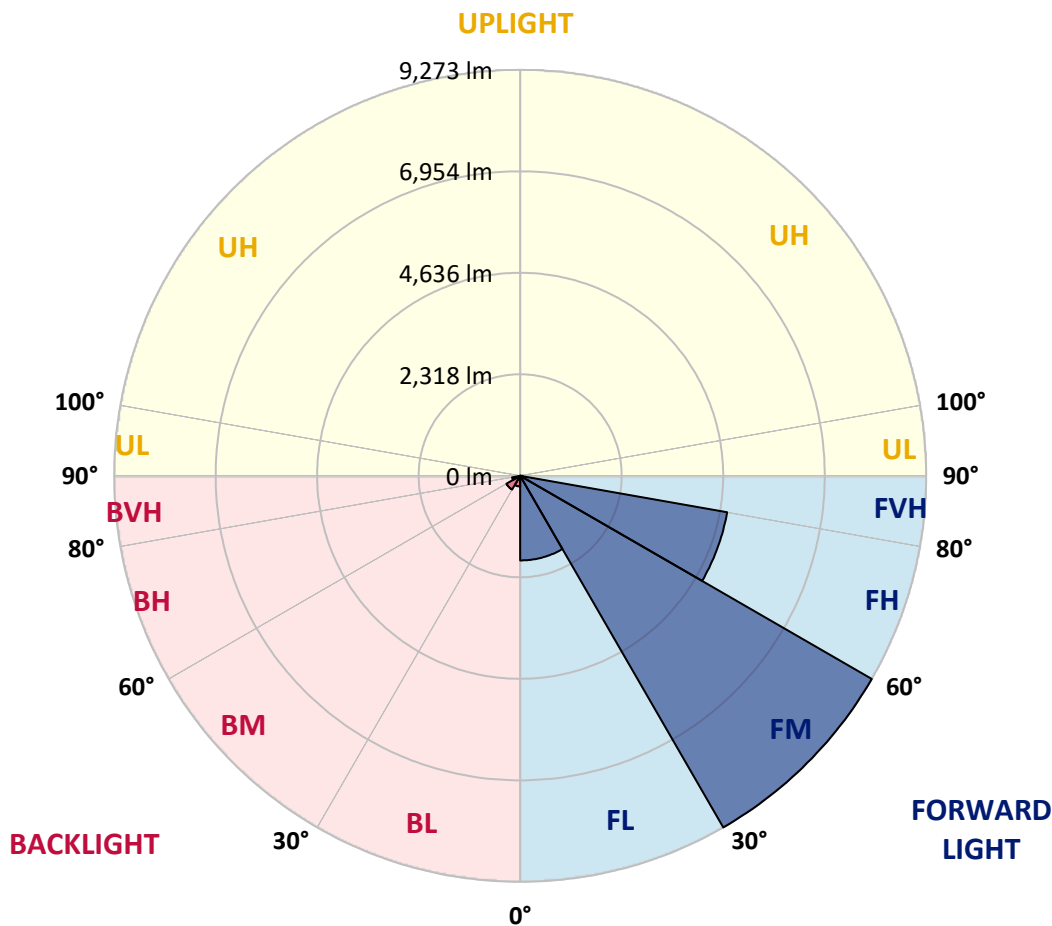
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1932.7	11.5			
FM (30°-60°)	9272.6	55.0			
FH (60°-80°)	4799.3	28.5			G2/5000
FVH (80°-90°)	59.3	0.4			G1/100
BL (0°-30°)	243.9	1.4	B1/500		
BM (30°-60°)	363.0	2.2	B1/1000		
BH (60°-80°)	187.2	1.1	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2256.7	2256.7	2256.7	2256.7	2256.7	2256.7	2256.7	2256.7	2256.7	2256.7	2256.7
2.5°	3084.7	3067.9	3051.0	2986.5	2927.5	2874.2	2773.1	2641.2	2523.3	2498.1	2360.5
5°	3623.6	3604.0	3578.7	3514.1	3438.4	3348.5	3199.8	2997.7	2790.0	2745.1	2489.7
7.5°	3988.5	3971.7	3935.2	3904.3	3828.5	3741.5	3575.9	3340.1	3053.8	2997.7	2638.4
10°	4238.3	4227.1	4221.5	4196.2	4140.1	4069.9	3904.3	3657.3	3320.5	3255.9	2795.6
12.5°	4328.1	4328.1	4356.2	4398.3	4406.7	4384.3	4232.7	3985.7	3601.2	3533.8	2980.8
15°	4207.4	4221.5	4283.2	4417.9	4558.3	4650.9	4555.5	4325.3	3909.9	3836.9	3199.8
17.5°	4173.7	4187.8	4229.9	4347.8	4535.8	4782.8	4830.5	4653.7	4201.8	4140.1	3424.3
20°	4269.2	4283.2	4319.7	4420.7	4563.9	4813.7	5013.0	4970.9	4510.6	4446.0	3651.7
22.5°	4496.5	4505.0	4505.0	4583.5	4709.8	4895.1	5128.1	5271.2	4827.7	4757.6	3876.2
25°	4984.9	4968.1	4900.7	4861.4	4942.8	5094.4	5274.0	5535.1	5181.4	5086.0	4117.6
27.5°	5624.9	5681.0	5518.2	5330.2	5268.4	5355.4	5478.9	5768.0	5523.8	5422.8	4336.5
30°	6492.2	6469.7	6256.4	5987.0	5720.3	5689.4	5731.5	5967.3	5866.3	5770.8	4580.7
32.5°	7205.1	7247.2	7022.7	6694.3	6295.7	6107.6	6062.7	6205.9	6231.1	6169.4	4869.8
35°	7937.7	7982.6	7763.7	7398.8	6924.4	6610.1	6481.0	6500.6	6683.0	6604.5	5173.0
37.5°	8594.5	8633.8	8417.7	8044.4	7570.0	7185.5	7000.2	6848.6	7120.9	7050.7	5493.0
40°	9094.1	9099.7	8953.8	8619.8	8170.7	7772.1	7561.6	7264.1	7584.0	7536.3	5827.0
42.5°	9447.8	9459.0	9352.3	9066.0	8650.6	8280.1	8108.9	7755.3	8117.3	8075.2	6214.3
45°	9613.4	9633.0	9621.8	9357.9	9012.7	8692.7	8636.6	8277.3	8701.2	8661.9	6660.6
47.5°	9456.2	9456.2	9599.3	9562.8	9245.7	9032.4	9096.9	8821.8	9335.5	9299.0	7115.3
50°	8802.2	8810.6	9102.5	9520.7	9335.5	9287.8	9489.9	9355.1	9910.9	9933.3	7659.8
52.5°	7084.4	7070.4	8055.6	8858.3	9273.7	9402.9	9851.9	9899.7	10601.4	10668.7	8201.5
55°	5293.7	5285.2	6228.3	7685.1	8841.5	9343.9	10054.0	10385.2	11190.8	11232.9	8605.7
57.5°	4190.6	4168.1	4687.4	6194.7	7864.7	9080.1	10062.5	10477.9	11519.2	11592.2	8998.7
60°	3222.2	3202.6	3589.9	4608.8	6481.0	8378.4	9821.1	10483.5	11836.4	11965.5	9526.4
62.5°	2304.4	2326.9	2624.4	3306.4	4984.9	7387.6	9506.7	10562.1	12400.5	12546.5	10275.8
65°	1555.0	1543.8	1790.8	2251.1	3545.0	6054.3	9023.9	10727.7	13416.6	13672.0	11174.0
67.5°	1080.6	1089.0	1201.3	1465.2	2251.1	4648.1	8221.2	10820.3	14466.4	14665.6	11802.7
70°	780.3	791.5	853.3	985.2	1375.3	3152.1	6949.7	10396.5	14749.9	14923.9	11364.8
72.5°	513.6	536.1	628.7	698.9	878.5	1973.2	5119.6	8956.6	13528.9	13658.0	9534.8
75°	277.9	283.5	404.2	522.1	625.9	1229.4	3053.8	6040.3	10121.4	10079.3	6287.3
77.5°	216.1	224.5	249.8	373.3	421.0	676.4	1206.9	2728.2	4794.1	4664.9	2144.4
80°	131.9	137.5	174.0	221.7	294.7	393.0	353.7	741.0	974.0	912.2	314.4
82.5°	78.6	84.2	103.9	185.3	233.0	185.3	123.5	179.6	182.4	179.6	78.6
85°	14.0	14.0	73.0	129.1	123.5	53.3	73.0	58.9	53.3	56.1	16.8
87.5°	0.0	0.0	28.1	39.3	56.1	19.6	28.1	14.0	14.0	14.0	8.4
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°	2256.7	2256.7	2256.7	2256.7	2256.7	2256.7	2256.7	2256.7	2256.7	2256.7	2256.7
2.5°	2276.3	2180.9	1984.4	1813.2	1642.0	1515.7	1420.3	1322.0	1288.3	1246.2	1223.8
5°	2315.6	2127.6	1737.4	1425.9	1162.0	959.9	830.8	752.2	701.7	665.2	656.8
7.5°	2374.6	2085.5	1538.1	1117.1	828.0	625.9	519.3	465.9	437.9	421.0	415.4
10°	2444.7	2049.0	1341.7	870.1	583.8	440.7	381.7	359.3	348.0	342.4	339.6
12.5°	2543.0	2034.9	1176.1	670.8	440.7	362.1	331.2	317.2	308.8	300.3	297.5
15°	2672.1	2040.6	1024.5	519.3	364.9	322.8	297.5	283.5	272.3	263.8	263.8
17.5°	2806.8	2049.0	875.7	421.0	331.2	294.7	266.6	247.0	238.6	230.2	227.4
20°	2933.1	2046.2	732.6	359.3	300.3	263.8	235.8	216.1	202.1	193.7	193.7
22.5°	3053.8	2029.3	597.9	322.8	275.1	233.0	202.1	182.4	171.2	162.8	162.8
25°	3182.9	1995.7	488.4	294.7	244.2	204.9	174.0	154.4	146.0	137.5	137.5
27.5°	3284.0	1939.5	398.6	269.5	216.1	176.8	148.8	131.9	123.5	117.9	117.9
30°	3393.4	1858.1	331.2	241.4	188.1	151.6	126.3	112.3	103.9	101.0	101.0
32.5°	3514.1	1768.3	283.5	213.3	160.0	129.1	106.7	98.2	89.8	87.0	87.0
35°	3654.5	1689.7	255.4	185.3	140.3	109.5	92.6	84.2	78.6	78.6	78.6
37.5°	3814.5	1608.3	230.2	162.8	120.7	92.6	78.6	75.8	73.0	70.2	70.2
40°	3988.5	1521.3	207.7	143.1	103.9	78.6	67.4	67.4	64.6	64.6	64.6
42.5°	4185.0	1445.5	188.1	126.3	89.8	67.4	58.9	58.9	56.1	56.1	56.1
45°	4398.3	1375.3	171.2	112.3	78.6	58.9	53.3	50.5	47.7	47.7	47.7
47.5°	4650.9	1336.0	157.2	98.2	67.4	50.5	44.9	42.1	39.3	36.5	36.5
50°	4973.7	1352.9	143.1	81.4	58.9	42.1	36.5	33.7	30.9	28.1	28.1
52.5°	5229.1	1344.5	123.5	70.2	47.7	33.7	28.1	25.3	22.5	19.6	19.6
55°	5414.4	1310.8	106.7	58.9	36.5	28.1	22.5	16.8	14.0	14.0	14.0
57.5°	5596.8	1277.1	89.8	47.7	28.1	19.6	14.0	11.2	11.2	11.2	11.2
60°	5880.3	1229.4	78.6	39.3	22.5	14.0	8.4	8.4	5.6	5.6	5.6
62.5°	6225.5	1170.4	64.6	33.7	16.8	11.2	5.6	5.6	0.0	0.0	0.0
65°	6604.5	1066.6	53.3	25.3	14.0	8.4	5.6	0.0	0.0	0.0	0.0
67.5°	6517.4	856.1	44.9	16.8	11.2	5.6	2.8	0.0	0.0	0.0	0.0
70°	5765.2	578.2	36.5	14.0	8.4	5.6	2.8	0.0	0.0	0.0	0.0
72.5°	4516.2	342.4	25.3	11.2	5.6	2.8	0.0	0.0	0.0	0.0	0.0
75°	2891.0	171.2	16.8	8.4	5.6	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	968.4	84.2	11.2	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	137.5	28.1	5.6	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.9	11.2	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.2	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	2.8	0.0	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)