

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: P399615

Luminaire Tested: **ARCH-L-PA3-170-722-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399615  
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-PA3-170-722-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2200K, 750mA 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: 15324 lumens  
Efficiency: N/A  
Efficacy: 88.6 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

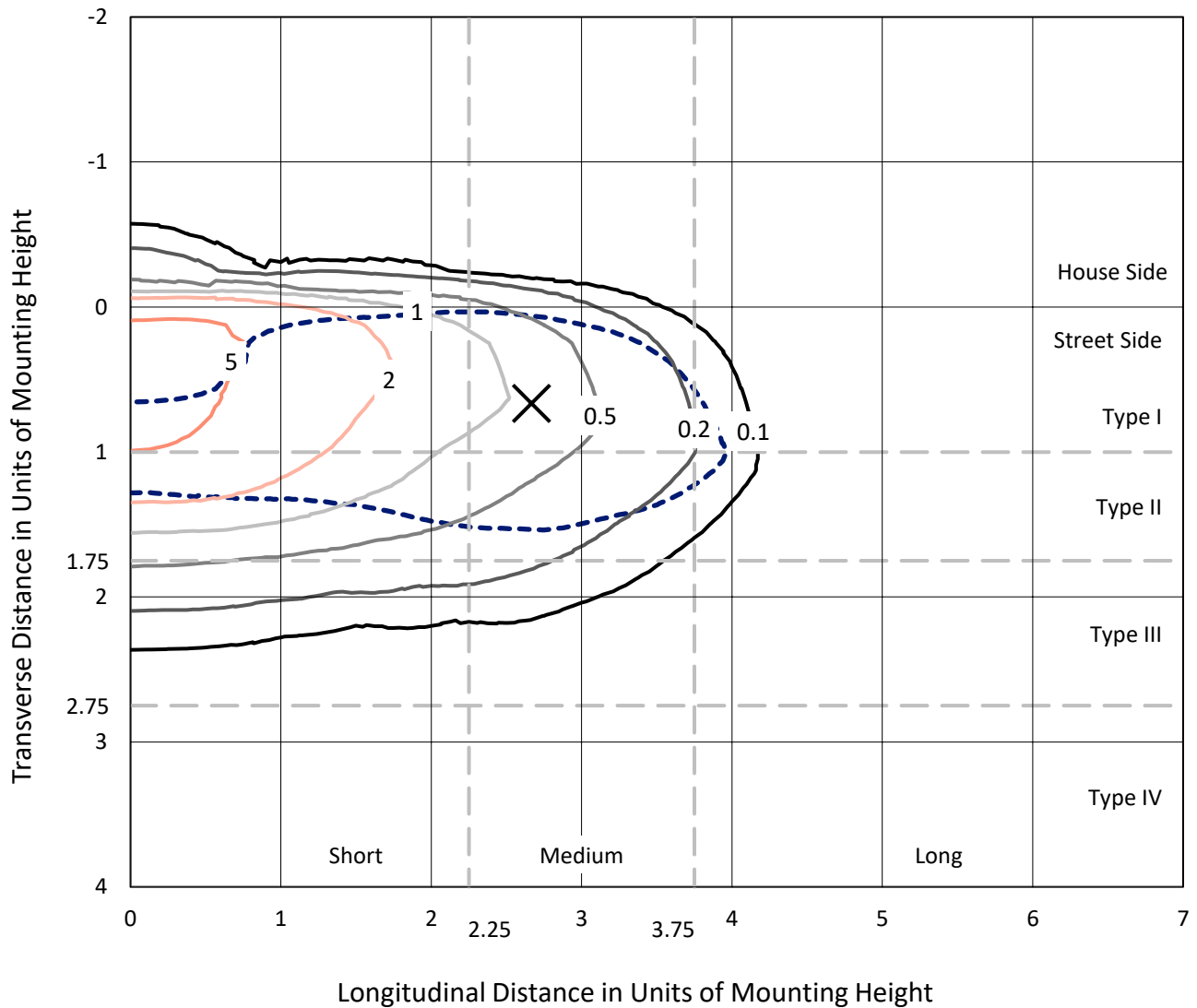
Input Watts (W): 173  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

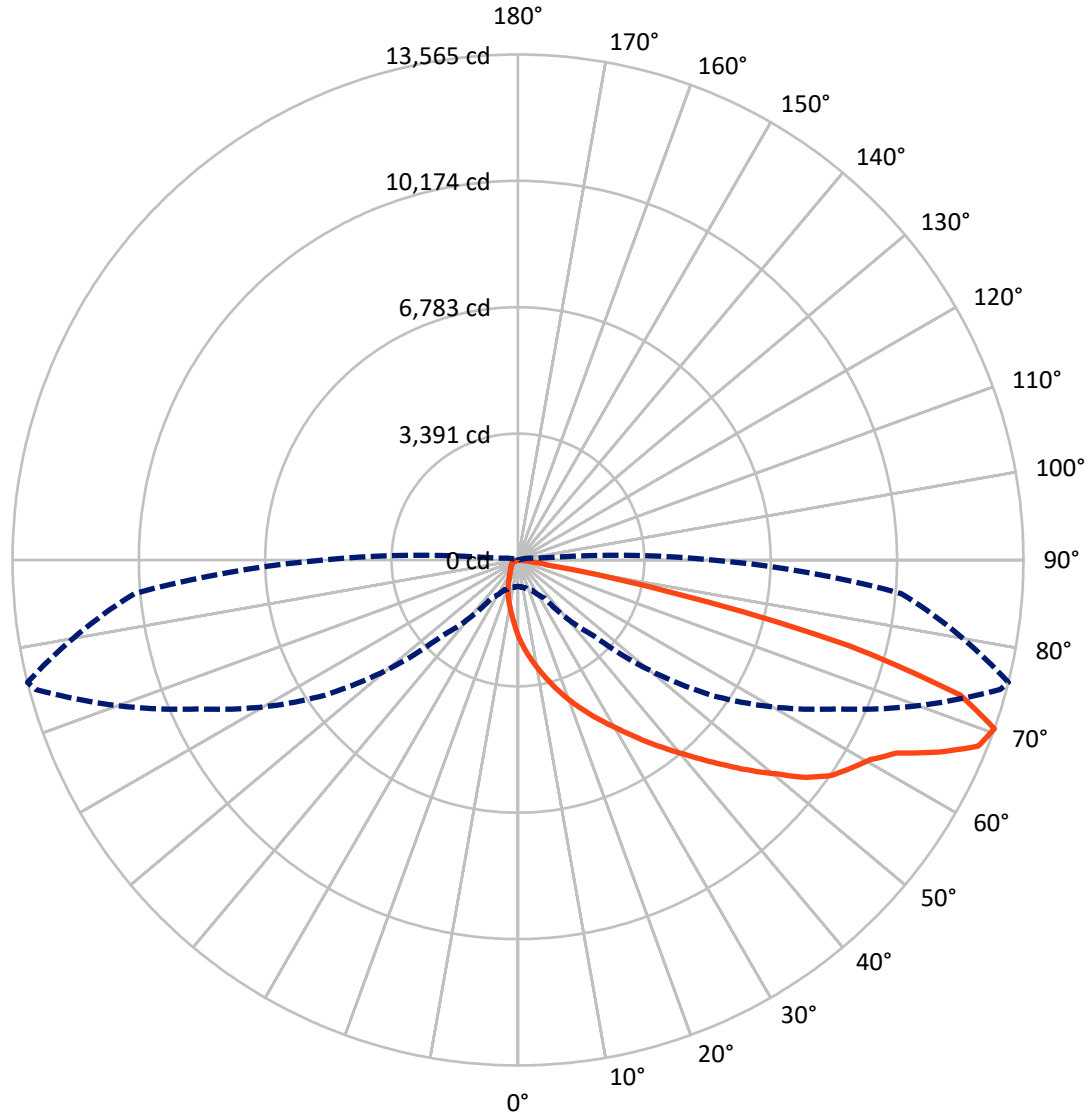
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	722.7	0.0	722.7
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	14601.3	0.0	14601.3
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	15324.0	0.0	15324.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.2	1.3
10°-20°	623.7	4.1
20°-30°	1161.5	7.6
30°-40°	2054.5	13.4
40°-50°	3141.8	20.5
50°-60°	3562.0	23.2
60°-70°	3053.5	19.9
70°-80°	1479.0	9.7
80°-90°	54.9	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°	15324.0	100.0
0°-180°	15324.0	100.0

**Coefficient of Utilization**

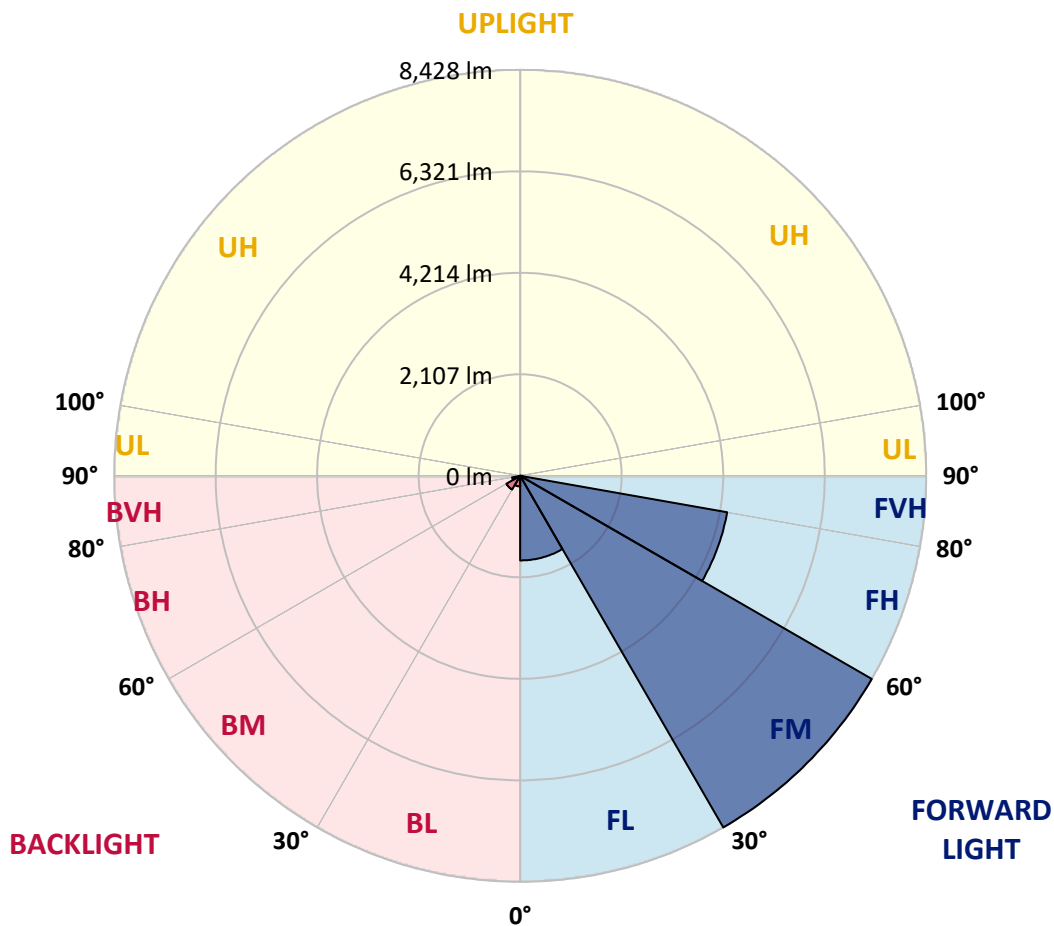


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1756.7	11.5			
FM (30°-60°)	8428.3	55.0			
FH (60°-80°)	4362.3	28.5			G2/5000
FVH (80°-90°)	53.9	0.4			G1/100
BL (0°-30°)	221.7	1.4	B1/500		
BM (30°-60°)	329.9	2.2	B1/1000		
BH (60°-80°)	170.2	1.1	B1/500		G1/500
BVH (80°-90°)	0.9	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°	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2
2.5°	2803.8	2788.5	2773.2	2714.5	2661.0	2612.5	2520.6	2400.7	2293.6	2270.6	2145.6
5°	3293.7	3275.8	3252.9	3194.2	3125.3	3043.7	2908.4	2724.7	2536.0	2495.1	2263.0
7.5°	3625.3	3610.0	3576.9	3548.8	3479.9	3400.8	3250.3	3036.0	2775.8	2724.7	2398.2
10°	3852.4	3842.2	3837.1	3814.1	3763.1	3699.3	3548.8	3324.3	3018.1	2959.5	2541.1
12.5°	3934.0	3934.0	3959.6	3997.8	4005.5	3985.1	3847.3	3622.8	3273.3	3212.0	2709.4
15°	3824.3	3837.1	3893.2	4015.7	4143.3	4227.4	4140.7	3931.5	3553.9	3487.6	2908.4
17.5°	3793.7	3806.5	3844.8	3951.9	4122.8	4347.4	4390.7	4230.0	3819.2	3763.1	3112.5
20°	3880.5	3893.2	3926.4	4018.2	4148.4	4375.4	4556.6	4518.3	4099.9	4041.2	3319.2
22.5°	4087.1	4094.8	4094.8	4166.2	4281.0	4449.4	4661.2	4791.3	4388.2	4324.4	3523.3
25°	4531.0	4515.7	4454.5	4418.8	4492.8	4630.5	4793.8	5031.1	4709.6	4622.9	3742.7
27.5°	5112.7	5163.8	5015.8	4844.8	4788.7	4867.8	4980.1	5242.8	5020.9	4929.0	3941.7
30°	5901.1	5880.7	5686.8	5441.8	5199.5	5171.4	5209.7	5424.0	5332.1	5245.4	4163.7
32.5°	6549.1	6587.4	6383.3	6084.8	5722.5	5551.5	5510.7	5640.8	5663.8	5607.7	4426.4
35°	7215.0	7255.8	7056.8	6725.1	6294.0	6008.2	5890.9	5908.7	6074.6	6003.1	4702.0
37.5°	7812.0	7847.7	7651.2	7311.9	6880.8	6531.2	6362.9	6225.1	6472.6	6408.8	4992.8
40°	8266.1	8271.2	8138.5	7834.9	7426.7	7064.4	6873.1	6602.7	6893.5	6850.1	5296.4
42.5°	8587.6	8597.8	8500.8	8240.6	7863.0	7526.2	7370.6	7049.1	7378.3	7340.0	5648.5
45°	8738.1	8755.9	8745.7	8505.9	8192.1	7901.3	7850.2	7523.7	7908.9	7873.2	6054.1
47.5°	8595.2	8595.2	8725.3	8692.2	8403.9	8210.0	8268.6	8018.6	8485.5	8452.3	6467.5
50°	8000.8	8008.4	8273.7	8653.9	8485.5	8442.1	8625.8	8503.4	9008.5	9028.9	6962.4
52.5°	6439.4	6426.6	7322.1	8051.8	8429.4	8546.7	8954.9	8998.3	9636.1	9697.4	7454.8
55°	4811.7	4804.0	5661.3	6985.4	8036.5	8493.2	9138.6	9439.7	10171.9	10210.2	7822.2
57.5°	3809.0	3788.6	4260.6	5630.6	7148.6	8253.3	9146.3	9523.9	10470.4	10536.7	8179.4
60°	2928.9	2911.0	3263.1	4189.2	5890.9	7615.5	8926.9	9529.0	10758.7	10876.0	8659.0
62.5°	2094.6	2115.0	2385.4	3005.4	4531.0	6714.9	8641.1	9600.4	11271.5	11404.1	9340.2
65°	1413.4	1403.2	1627.7	2046.1	3222.2	5503.1	8202.3	9750.9	12195.0	12427.2	10156.6
67.5°	982.2	989.9	1091.9	1331.8	2046.1	4224.9	7472.7	9835.1	13149.2	13330.4	10728.1
70°	709.3	719.5	775.6	895.5	1250.1	2865.1	6316.9	9449.9	13406.9	13565.1	10330.1
72.5°	466.9	487.3	571.5	635.3	798.5	1793.5	4653.5	8141.1	12297.1	12414.4	8666.6
75°	252.6	257.7	367.4	474.5	568.9	1117.5	2775.8	5490.3	9199.9	9161.6	5714.8
77.5°	196.4	204.1	227.1	339.3	382.7	614.9	1097.0	2479.8	4357.6	4240.2	1949.2
80°	119.9	125.0	158.2	201.5	267.9	357.2	321.5	673.5	885.3	829.2	285.7
82.5°	71.4	76.5	94.4	168.4	211.8	168.4	112.3	163.3	165.8	163.3	71.4
85°	12.8	12.8	66.3	117.4	112.3	48.5	66.3	53.6	48.5	51.0	15.3
87.5°	0.0	0.0	25.5	35.7	51.0	17.9	25.5	12.8	12.8	12.8	7.7
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°	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2
2.5°	2069.1	1982.3	1803.7	1648.1	1492.5	1377.7	1290.9	1201.6	1171.0	1132.8	1112.4
5°	2104.8	1933.9	1579.2	1296.0	1056.2	872.5	755.2	683.7	637.8	604.6	597.0
7.5°	2158.4	1895.6	1398.1	1015.4	752.6	568.9	472.0	423.5	398.0	382.7	377.6
10°	2222.2	1862.4	1219.5	790.9	530.7	400.5	347.0	326.6	316.4	311.3	308.7
12.5°	2311.4	1849.7	1069.0	609.8	400.5	329.1	301.0	288.3	280.6	273.0	270.4
15°	2428.8	1854.8	931.2	472.0	331.7	293.4	270.4	257.7	247.5	239.8	239.8
17.5°	2551.3	1862.4	796.0	382.7	301.0	267.9	242.4	224.5	216.9	209.2	206.7
20°	2666.1	1859.9	665.9	326.6	273.0	239.8	214.3	196.4	183.7	176.0	176.0
22.5°	2775.8	1844.6	543.4	293.4	250.0	211.8	183.7	165.8	155.6	148.0	148.0
25°	2893.1	1813.9	443.9	267.9	222.0	186.2	158.2	140.3	132.7	125.0	125.0
27.5°	2985.0	1762.9	362.3	244.9	196.4	160.7	135.2	119.9	112.3	107.2	107.2
30°	3084.5	1688.9	301.0	219.4	170.9	137.8	114.8	102.1	94.4	91.8	91.8
32.5°	3194.2	1607.3	257.7	193.9	145.4	117.4	96.9	89.3	81.6	79.1	79.1
35°	3321.7	1535.9	232.2	168.4	127.6	99.5	84.2	76.5	71.4	71.4	71.4
37.5°	3467.2	1461.9	209.2	148.0	109.7	84.2	71.4	68.9	66.3	63.8	63.8
40°	3625.3	1382.8	188.8	130.1	94.4	71.4	61.2	61.2	58.7	58.7	58.7
42.5°	3803.9	1313.9	170.9	114.8	81.6	61.2	53.6	53.6	51.0	51.0	51.0
45°	3997.8	1250.1	155.6	102.1	71.4	53.6	48.5	45.9	43.4	43.4	43.4
47.5°	4227.4	1214.4	142.9	89.3	61.2	45.9	40.8	38.3	35.7	33.2	33.2
50°	4520.8	1229.7	130.1	74.0	53.6	38.3	33.2	30.6	28.1	25.5	25.5
52.5°	4753.0	1222.1	112.3	63.8	43.4	30.6	25.5	23.0	20.4	17.9	17.9
55°	4921.4	1191.4	96.9	53.6	33.2	25.5	20.4	15.3	12.8	12.8	12.8
57.5°	5087.2	1160.8	81.6	43.4	25.5	17.9	12.8	10.2	10.2	10.2	10.2
60°	5344.9	1117.5	71.4	35.7	20.4	12.8	7.7	7.7	5.1	5.1	5.1
62.5°	5658.7	1063.9	58.7	30.6	15.3	10.2	5.1	5.1	0.0	0.0	0.0
65°	6003.1	969.5	48.5	23.0	12.8	7.7	5.1	0.0	0.0	0.0	0.0
67.5°	5924.0	778.1	40.8	15.3	10.2	5.1	2.6	0.0	0.0	0.0	0.0
70°	5240.3	525.6	33.2	12.8	7.7	5.1	2.6	0.0	0.0	0.0	0.0
72.5°	4105.0	311.3	23.0	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0
75°	2627.8	155.6	15.3	7.7	5.1	2.6	0.0	0.0	0.0	0.0	0.0
77.5°	880.2	76.5	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	125.0	25.5	5.1	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	28.1	10.2	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.2	5.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	2.6	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)