

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: P399381

Luminaire Tested: **ARCH-L-PA3-130-827-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399381  
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-PA3-130-827-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 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: 12394 lumens  
Efficiency: N/A  
Efficacy: 93.2 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

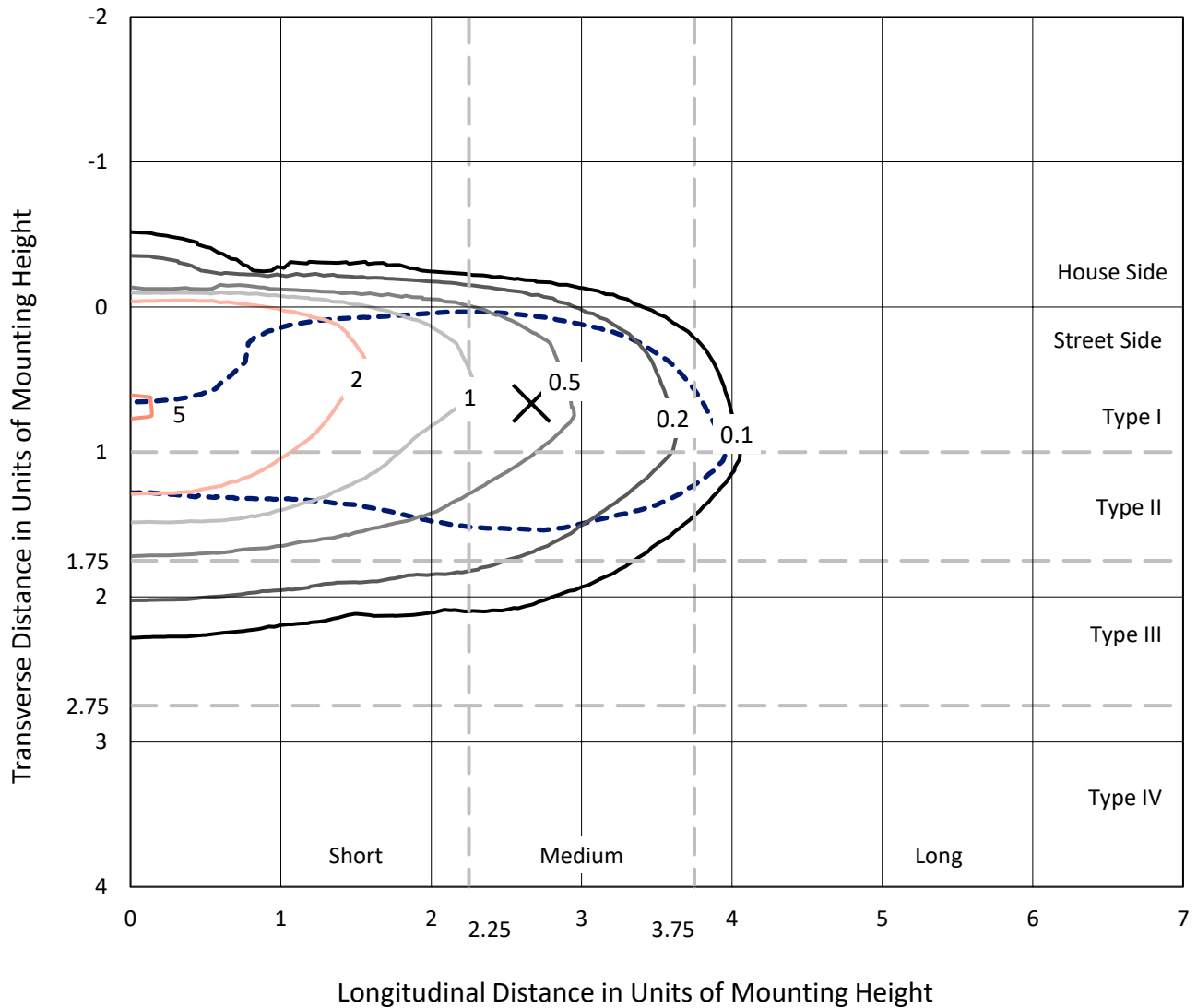
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

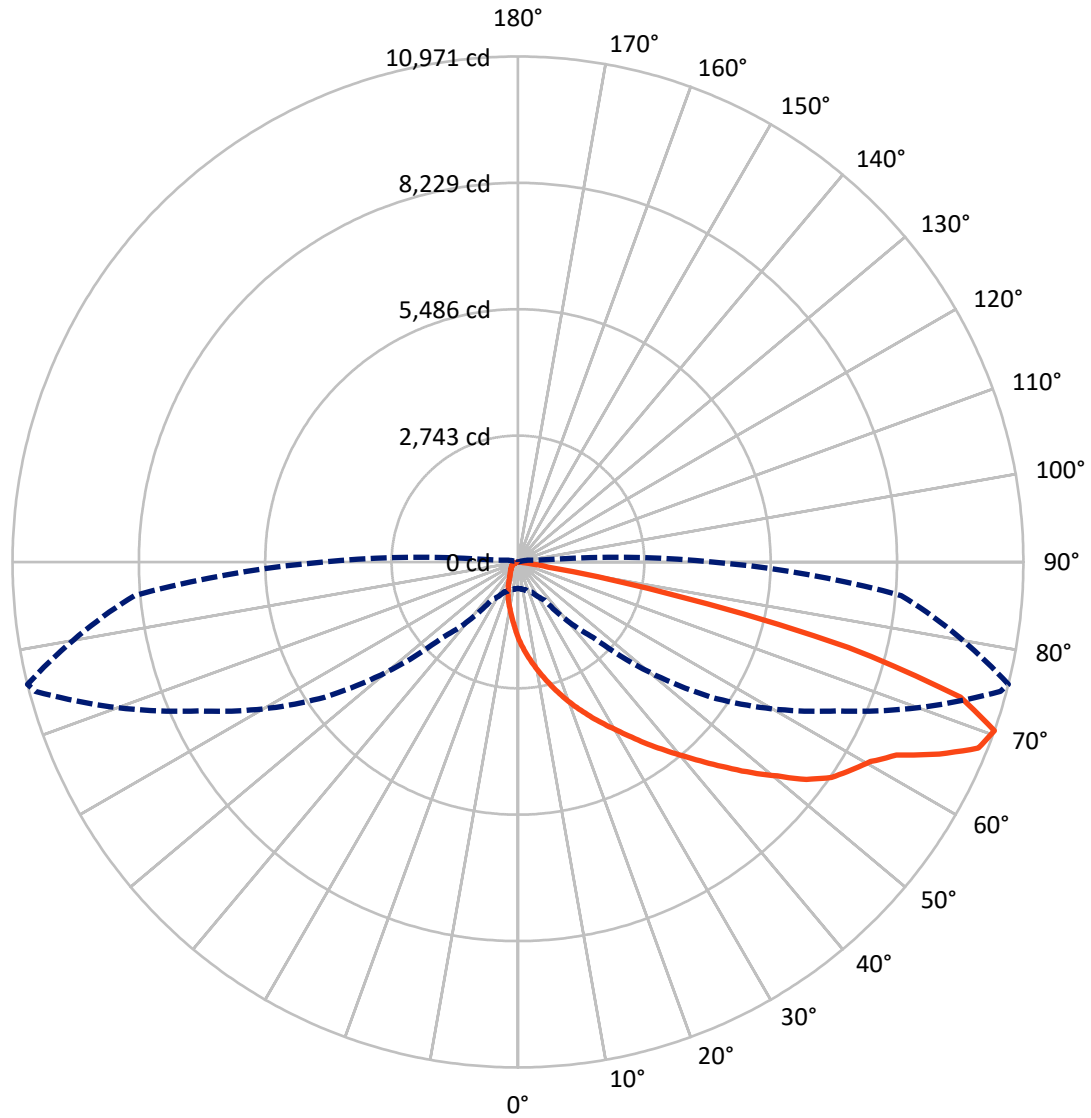
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	584.5	0.0	584.5
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	11809.5	0.0	11809.5
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	12394.0	0.0	12394.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.3	1.3
10°-20°	504.4	4.1
20°-30°	939.4	7.6
30°-40°	1661.6	13.4
40°-50°	2541.0	20.5
50°-60°	2880.9	23.2
60°-70°	2469.7	19.9
70°-80°	1196.2	9.7
80°-90°	44.4	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°	12394.0	100.0
0°-180°	12394.0	100.0

**Coefficient of Utilization**

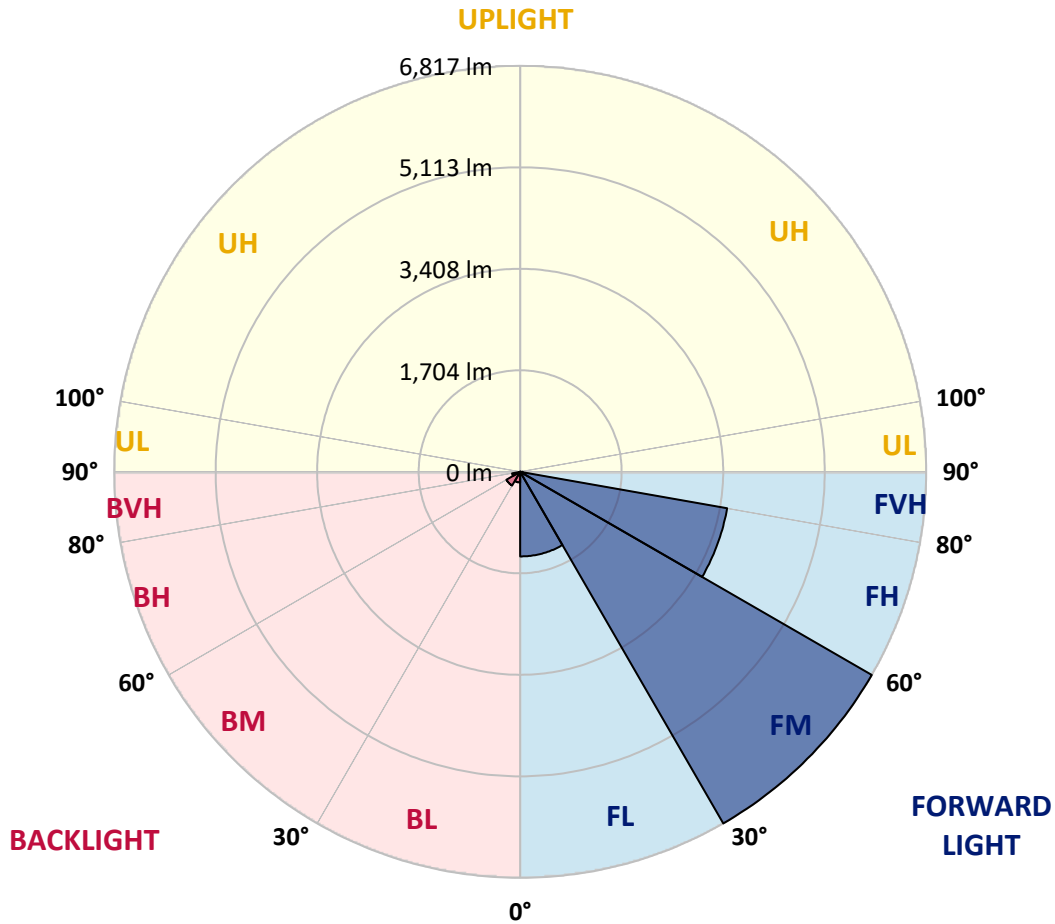


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1420.8	11.5			
FM (30°-60°)	6816.8	55.0			
FH (60°-80°)	3528.2	28.5			G2/5000
FVH (80°-90°)	43.6	0.4			G1/100
BL (0°-30°)	179.3	1.4	B1/500		
BM (30°-60°)	266.8	2.2	B1/1000		
BH (60°-80°)	137.6	1.1	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0
2.5°	2267.7	2255.4	2243.0	2195.5	2152.2	2113.0	2038.7	1941.7	1855.0	1836.5	1735.4
5°	2663.9	2649.5	2630.9	2583.4	2527.7	2461.7	2352.3	2203.8	2051.1	2018.1	1830.3
7.5°	2932.2	2919.8	2893.0	2870.3	2814.6	2750.6	2628.8	2455.5	2245.0	2203.8	1939.6
10°	3115.8	3107.6	3103.4	3084.9	3043.6	2992.0	2870.3	2688.7	2441.1	2393.6	2055.2
12.5°	3181.8	3181.8	3202.5	3233.4	3239.6	3223.1	3111.7	2930.1	2647.4	2597.9	2191.4
15°	3093.1	3103.4	3148.8	3247.9	3351.0	3419.1	3349.0	3179.8	2874.4	2820.7	2352.3
17.5°	3068.4	3078.7	3109.6	3196.3	3334.5	3516.1	3551.2	3421.2	3089.0	3043.6	2517.4
20°	3138.5	3148.8	3175.7	3249.9	3355.2	3538.8	3685.3	3654.4	3316.0	3268.5	2684.6
22.5°	3305.7	3311.8	3311.8	3369.6	3462.5	3598.7	3769.9	3875.2	3549.1	3497.6	2849.6
25°	3664.7	3652.3	3602.8	3573.9	3633.7	3745.2	3877.2	4069.1	3809.1	3739.0	3027.1
27.5°	4135.2	4176.4	4056.7	3918.5	3873.1	3937.1	4027.9	4240.4	4060.9	3986.6	3188.0
30°	4772.8	4756.3	4599.4	4401.3	4205.3	4182.6	4213.6	4386.9	4312.6	4242.5	3367.6
32.5°	5296.9	5327.8	5162.8	4921.3	4628.3	4490.1	4457.1	4562.3	4580.9	4535.5	3580.1
35°	5835.4	5868.5	5707.5	5439.3	5090.5	4859.4	4764.5	4779.0	4913.1	4855.3	3802.9
37.5°	6318.3	6347.2	6188.3	5913.9	5565.1	5282.4	5146.3	5034.8	5235.0	5183.4	4038.2
40°	6685.6	6689.7	6582.4	6336.9	6006.7	5713.7	5558.9	5340.2	5575.5	5540.4	4283.7
42.5°	6945.6	6953.8	6875.4	6665.0	6359.6	6087.2	5961.3	5701.3	5967.5	5936.6	4568.5
45°	7067.3	7081.8	7073.5	6879.6	6625.7	6390.5	6349.2	6085.1	6396.7	6367.8	4896.6
47.5°	6951.8	6951.8	7057.0	7030.2	6797.0	6640.2	6687.7	6485.4	6863.0	6836.2	5230.9
50°	6471.0	6477.2	6691.8	6999.2	6863.0	6828.0	6976.5	6877.5	7286.1	7302.6	5631.2
52.5°	5208.2	5197.8	5922.1	6512.3	6817.6	6912.6	7242.7	7277.8	7793.7	7843.2	6029.4
55°	3891.7	3885.5	4578.8	5649.7	6499.9	6869.2	7391.3	7634.8	8227.0	8257.9	6326.5
57.5°	3080.7	3064.2	3446.0	4554.0	5781.8	6675.3	7397.5	7702.9	8468.4	8522.1	6615.4
60°	2368.8	2354.4	2639.2	3388.2	4764.5	6159.4	7220.0	7707.0	8701.6	8796.5	7003.4
62.5°	1694.1	1710.6	1929.3	2430.7	3664.7	5431.0	6988.9	7764.8	9116.3	9223.6	7554.3
65°	1143.2	1134.9	1316.5	1654.9	2606.1	4450.9	6634.0	7886.5	9863.3	10051.1	8214.6
67.5°	794.4	800.6	883.2	1077.1	1654.9	3417.1	6043.9	7954.6	10635.0	10781.5	8676.8
70°	573.6	581.9	627.3	724.3	1011.1	2317.3	5109.1	7643.0	10843.4	10971.4	8354.9
72.5°	377.6	394.1	462.2	513.8	645.9	1450.6	3763.7	6584.5	9945.8	10040.8	7009.6
75°	204.3	208.4	297.1	383.8	460.2	903.8	2245.0	4440.6	7440.8	7409.9	4622.1
77.5°	158.9	165.1	183.6	274.4	309.5	497.3	887.3	2005.7	3524.4	3429.5	1576.5
80°	97.0	101.1	127.9	163.0	216.7	288.9	260.0	544.8	716.0	670.6	231.1
82.5°	57.8	61.9	76.3	136.2	171.3	136.2	90.8	132.1	134.1	132.1	57.8
85°	10.3	10.3	53.6	94.9	90.8	39.2	53.6	43.3	39.2	41.3	12.4
87.5°	0.0	0.0	20.6	28.9	41.3	14.4	20.6	10.3	10.3	10.3	6.2
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°	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0	1659.0
2.5°	1673.5	1603.3	1458.9	1333.0	1207.1	1114.3	1044.1	971.9	947.1	916.2	899.7
5°	1702.3	1564.1	1277.3	1048.2	854.3	705.7	610.8	553.0	515.9	489.0	482.8
7.5°	1745.7	1533.1	1130.8	821.3	608.7	460.2	381.7	342.5	321.9	309.5	305.4
10°	1797.3	1506.3	986.3	639.7	429.2	324.0	280.6	264.1	255.9	251.7	249.7
12.5°	1869.5	1496.0	864.6	493.2	324.0	266.2	243.5	233.2	227.0	220.8	218.7
15°	1964.4	1500.1	753.2	381.7	268.2	237.3	218.7	208.4	200.2	194.0	194.0
17.5°	2063.5	1506.3	643.8	309.5	243.5	216.7	196.0	181.6	175.4	169.2	167.1
20°	2156.3	1504.3	538.6	264.1	220.8	194.0	173.3	158.9	148.6	142.4	142.4
22.5°	2245.0	1491.9	439.5	237.3	202.2	171.3	148.6	134.1	125.9	119.7	119.7
25°	2340.0	1467.1	359.0	216.7	179.5	150.6	127.9	113.5	107.3	101.1	101.1
27.5°	2414.2	1425.8	293.0	198.1	158.9	130.0	109.4	97.0	90.8	86.7	86.7
30°	2494.7	1366.0	243.5	177.5	138.3	111.4	92.9	82.5	76.3	74.3	74.3
32.5°	2583.4	1300.0	208.4	156.8	117.6	94.9	78.4	72.2	66.0	64.0	64.0
35°	2686.6	1242.2	187.8	136.2	103.2	80.5	68.1	61.9	57.8	57.8	57.8
37.5°	2804.2	1182.4	169.2	119.7	88.7	68.1	57.8	55.7	53.6	51.6	51.6
40°	2932.2	1118.4	152.7	105.2	76.3	57.8	49.5	49.5	47.5	47.5	47.5
42.5°	3076.6	1062.7	138.3	92.9	66.0	49.5	43.3	43.3	41.3	41.3	41.3
45°	3233.4	1011.1	125.9	82.5	57.8	43.3	39.2	37.1	35.1	35.1	35.1
47.5°	3419.1	982.2	115.6	72.2	49.5	37.1	33.0	31.0	28.9	26.8	26.8
50°	3656.4	994.6	105.2	59.8	43.3	31.0	26.8	24.8	22.7	20.6	20.6
52.5°	3844.2	988.4	90.8	51.6	35.1	24.8	20.6	18.6	16.5	14.4	14.4
55°	3980.4	963.6	78.4	43.3	26.8	20.6	16.5	12.4	10.3	10.3	10.3
57.5°	4114.5	938.9	66.0	35.1	20.6	14.4	10.3	8.3	8.3	8.3	8.3
60°	4322.9	903.8	57.8	28.9	16.5	10.3	6.2	6.2	4.1	4.1	4.1
62.5°	4576.7	860.5	47.5	24.8	12.4	8.3	4.1	4.1	0.0	0.0	0.0
65°	4855.3	784.1	39.2	18.6	10.3	6.2	4.1	0.0	0.0	0.0	0.0
67.5°	4791.3	629.4	33.0	12.4	8.3	4.1	2.1	0.0	0.0	0.0	0.0
70°	4238.3	425.1	26.8	10.3	6.2	4.1	2.1	0.0	0.0	0.0	0.0
72.5°	3320.1	251.7	18.6	8.3	4.1	2.1	0.0	0.0	0.0	0.0	0.0
75°	2125.4	125.9	12.4	6.2	4.1	2.1	0.0	0.0	0.0	0.0	0.0
77.5°	711.9	61.9	8.3	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	101.1	20.6	4.1	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.7	8.3	2.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.3	4.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.1	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)