

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: P399885

Luminaire Tested: **ARCH-L-PA3-200-827-U-T2R-HSS**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399885  
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-PA3-200-827-U-T2R-HSS  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 860mA 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: 17023 lumens  
Efficiency: N/A  
Efficacy: 84.7 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

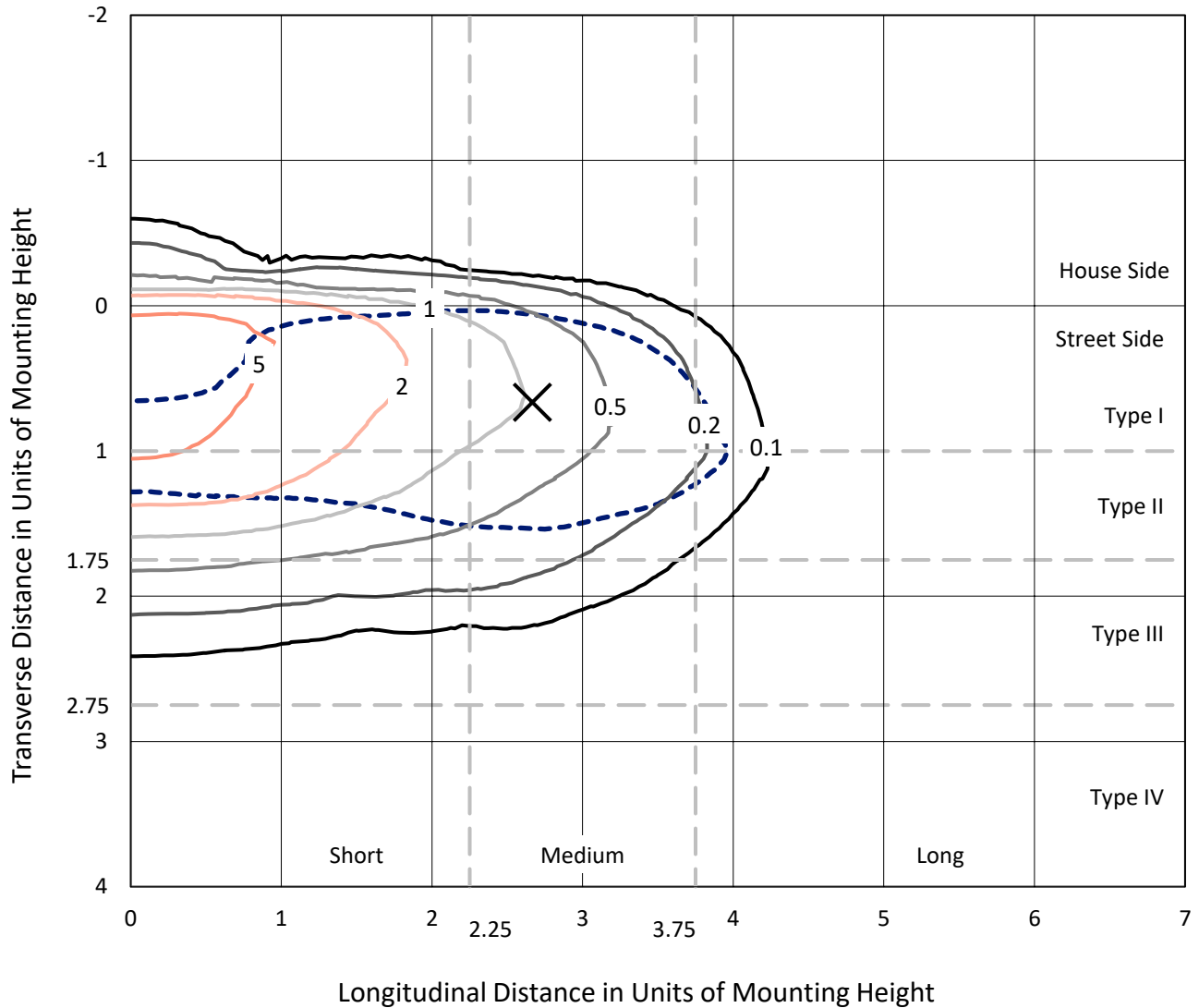
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

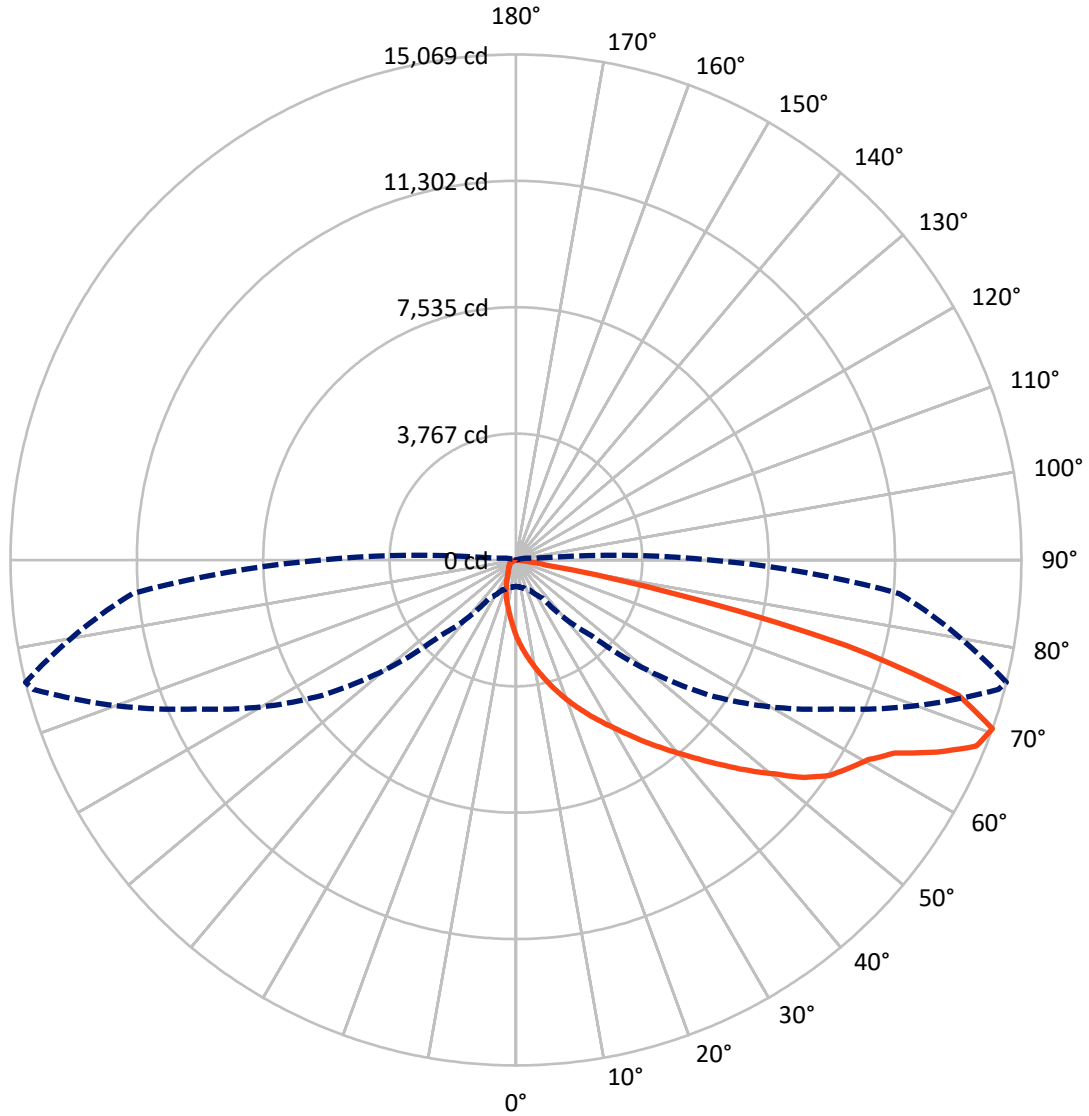
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	802.8	0.0	802.8
	% Fixture	4.7	0.0	4.7
<b>Street Side</b>	Lumens	16220.1	0.0	16220.1
	% Fixture	95.3	0.0	95.3
<b>Total</b>	Lumens	17023.0	0.0	17023.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.7	1.3
10°-20°	692.8	4.1
20°-30°	1290.3	7.6
30°-40°	2282.3	13.4
40°-50°	3490.1	20.5
50°-60°	3956.9	23.2
60°-70°	3392.1	19.9
70°-80°	1642.9	9.7
80°-90°	60.9	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°	17023.0	100.0
0°-180°	17023.0	100.0

**Coefficient of Utilization**

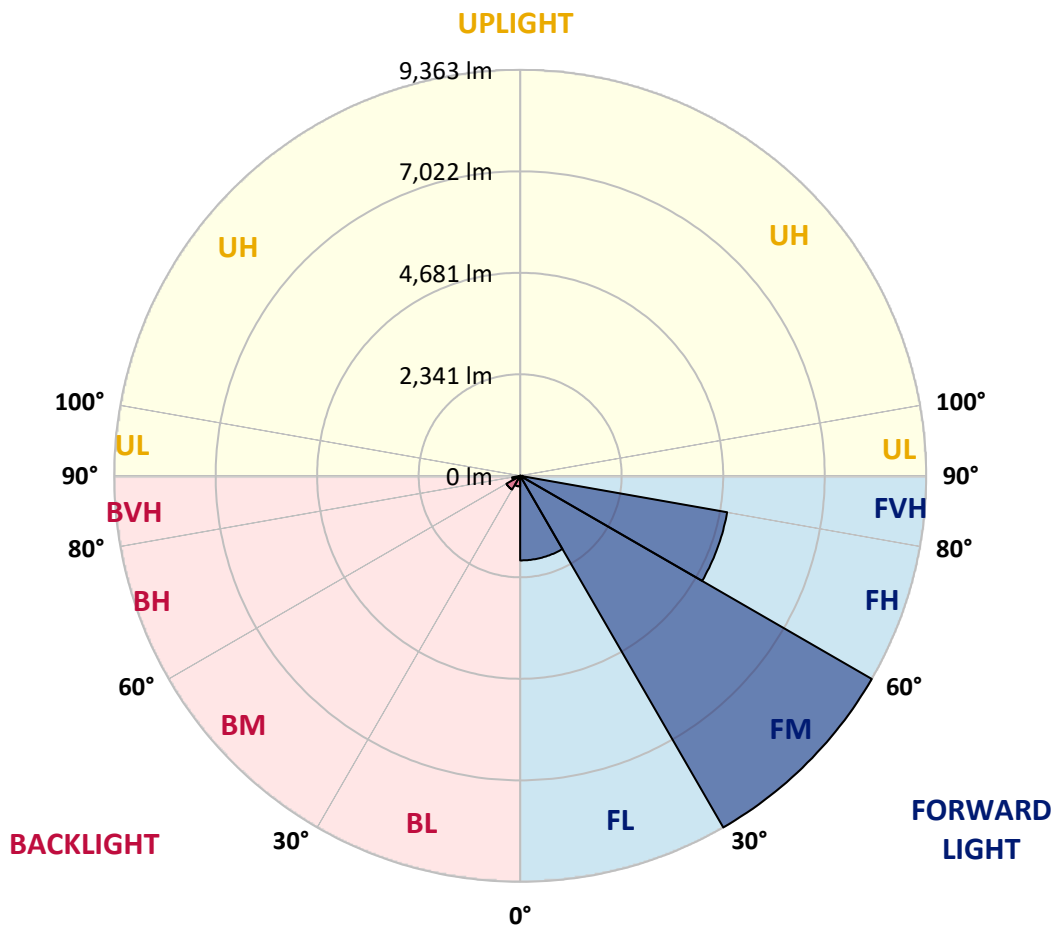


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1951.5	11.5			
FM (30°-60°)	9362.8	55.0			
FH (60°-80°)	4845.9	28.5			G2/5000
FVH (80°-90°)	59.9	0.4			G1/100
BL (0°-30°)	246.3	1.4	B1/500		
BM (30°-60°)	366.5	2.2	B1/1000		
BH (60°-80°)	189.0	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°	2278.6	2278.6	2278.6	2278.6	2278.6	2278.6	2278.6	2278.6	2278.6	2278.6	2278.6
2.5°	3114.7	3097.7	3080.7	3015.5	2956.0	2902.1	2800.1	2666.9	2547.9	2522.4	2383.5
5°	3658.9	3639.0	3613.5	3548.3	3471.8	3381.1	3230.9	3026.8	2817.1	2771.8	2513.9
7.5°	4027.3	4010.3	3973.4	3942.3	3865.7	3777.9	3610.7	3372.6	3083.5	3026.8	2664.1
10°	4279.5	4268.2	4262.5	4237.0	4180.3	4109.5	3942.3	3692.9	3352.8	3287.6	2822.8
12.5°	4370.2	4370.2	4398.6	4441.1	4449.6	4426.9	4273.9	4024.5	3636.2	3568.2	3009.8
15°	4248.4	4262.5	4324.9	4460.9	4602.6	4696.1	4599.8	4367.4	3947.9	3874.3	3230.9
17.5°	4214.3	4228.5	4271.0	4390.1	4579.9	4829.4	4877.5	4699.0	4242.7	4180.3	3457.6
20°	4310.7	4324.9	4361.7	4463.7	4608.3	4860.5	5061.8	5019.2	4554.4	4489.3	3687.2
22.5°	4540.3	4548.8	4548.8	4628.1	4755.7	4942.7	5177.9	5322.5	4874.7	4803.8	3913.9
25°	5033.4	5016.4	4948.4	4908.7	4990.9	5143.9	5325.3	5588.9	5231.8	5135.4	4157.7
27.5°	5679.6	5736.3	5571.9	5382.0	5319.7	5407.5	5532.2	5824.1	5577.6	5475.5	4378.7
30°	6555.3	6532.7	6317.3	6045.2	5776.0	5744.8	5787.3	6025.4	5923.3	5827.0	4625.3
32.5°	7275.2	7317.7	7091.0	6759.4	6356.9	6167.1	6121.7	6266.3	6291.8	6229.4	4917.2
35°	8014.9	8060.3	7839.2	7470.8	6991.8	6674.4	6544.0	6563.8	6748.1	6668.7	5223.3
37.5°	8678.1	8717.8	8499.5	8122.6	7643.6	7255.4	7068.3	6915.3	7190.2	7119.3	5546.4
40°	9182.6	9188.2	9040.9	8703.6	8250.1	7847.7	7635.1	7334.7	7657.8	7609.6	5883.6
42.5°	9539.7	9551.0	9443.3	9154.2	8734.8	8360.7	8187.8	7830.7	8196.3	8153.8	6274.8
45°	9706.9	9726.7	9715.4	9449.0	9100.4	8777.3	8720.6	8357.8	8785.8	8746.1	6725.4
47.5°	9548.2	9548.2	9692.7	9655.9	9335.6	9120.2	9185.4	8907.7	9426.3	9389.5	7184.5
50°	8887.8	8896.3	9191.1	9613.4	9426.3	9378.1	9582.2	9446.1	10007.3	10030.0	7734.3
52.5°	7153.3	7139.2	8133.9	8944.5	9364.0	9494.3	9947.8	9996.0	10704.5	10772.5	8281.3
55°	5345.2	5336.7	6288.9	7759.8	8927.5	9434.8	10151.8	10486.3	11299.7	11342.2	8689.4
57.5°	4231.4	4208.7	4733.0	6254.9	7941.2	9168.4	10160.3	10579.8	11631.3	11704.9	9086.2
60°	3253.6	3233.7	3624.8	4653.6	6544.0	8459.9	9916.6	10585.5	11951.5	12081.9	9619.0
62.5°	2326.8	2349.5	2649.9	3338.6	5033.4	7459.4	9599.2	10664.8	12521.2	12668.5	10375.7
65°	1570.1	1558.8	1808.2	2273.0	3579.5	6113.2	9111.7	10832.0	13547.1	13805.0	11282.7
67.5°	1091.1	1099.6	1213.0	1479.4	2273.0	4693.3	8301.2	10925.6	14607.1	14808.3	11917.5
70°	787.9	799.2	861.6	994.8	1388.7	3182.7	7017.3	10497.6	14893.3	15069.1	11475.4
72.5°	518.6	541.3	634.8	705.7	887.1	1992.4	5169.4	9043.7	13660.5	13790.9	9627.5
75°	280.6	286.2	408.1	527.1	632.0	1241.3	3083.5	6099.0	10219.9	10177.3	6348.4
77.5°	218.2	226.7	252.2	376.9	425.1	683.0	1218.7	2754.8	4840.7	4710.3	2165.3
80°	133.2	138.9	175.7	223.9	297.6	396.8	357.1	748.2	983.4	921.1	317.4
82.5°	79.4	85.0	104.9	187.1	235.2	187.1	124.7	181.4	184.2	181.4	79.4
85°	14.2	14.2	73.7	130.4	124.7	53.8	73.7	59.5	53.8	56.7	17.0
87.5°	0.0	0.0	28.3	39.7	56.7	19.8	28.3	14.2	14.2	14.2	8.5
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°	2278.6	2278.6	2278.6	2278.6	2278.6	2278.6	2278.6	2278.6	2278.6	2278.6	2278.6
2.5°	2298.5	2202.1	2003.7	1830.8	1658.0	1530.4	1434.1	1334.9	1300.9	1258.4	1235.7
5°	2338.2	2148.3	1754.3	1439.7	1173.3	969.3	838.9	759.5	708.5	671.7	663.2
7.5°	2397.7	2105.8	1553.1	1128.0	836.1	632.0	524.3	470.5	442.1	425.1	419.5
10°	2468.5	2068.9	1354.7	878.6	589.5	445.0	385.4	362.8	351.4	345.8	342.9
12.5°	2567.7	2054.7	1187.5	677.4	445.0	365.6	334.4	320.3	311.8	303.3	300.4
15°	2698.1	2060.4	1034.5	524.3	368.4	325.9	300.4	286.2	274.9	266.4	266.4
17.5°	2834.1	2068.9	884.2	425.1	334.4	297.6	269.2	249.4	240.9	232.4	229.6
20°	2961.7	2066.1	739.7	362.8	303.3	266.4	238.1	218.2	204.1	195.6	195.6
22.5°	3083.5	2049.1	603.7	325.9	277.7	235.2	204.1	184.2	172.9	164.4	164.4
25°	3213.9	2015.1	493.1	297.6	246.6	206.9	175.7	155.9	147.4	138.9	138.9
27.5°	3315.9	1958.4	402.4	272.1	218.2	178.5	150.2	133.2	124.7	119.0	119.0
30°	3426.5	1876.2	334.4	243.7	189.9	153.0	127.5	113.4	104.9	102.0	102.0
32.5°	3548.3	1785.5	286.2	215.4	161.5	130.4	107.7	99.2	90.7	87.9	87.9
35°	3690.0	1706.1	257.9	187.1	141.7	110.5	93.5	85.0	79.4	79.4	79.4
37.5°	3851.6	1624.0	232.4	164.4	121.9	93.5	79.4	76.5	73.7	70.9	70.9
40°	4027.3	1536.1	209.7	144.5	104.9	79.4	68.0	68.0	65.2	65.2	65.2
42.5°	4225.7	1459.6	189.9	127.5	90.7	68.0	59.5	59.5	56.7	56.7	56.7
45°	4441.1	1388.7	172.9	113.4	79.4	59.5	53.8	51.0	48.2	48.2	48.2
47.5°	4696.1	1349.0	158.7	99.2	68.0	51.0	45.3	42.5	39.7	36.8	36.8
50°	5022.1	1366.0	144.5	82.2	59.5	42.5	36.8	34.0	31.2	28.3	28.3
52.5°	5280.0	1357.5	124.7	70.9	48.2	34.0	28.3	25.5	22.7	19.8	19.8
55°	5467.0	1323.5	107.7	59.5	36.8	28.3	22.7	17.0	14.2	14.2	14.2
57.5°	5651.2	1289.5	90.7	48.2	28.3	19.8	14.2	11.3	11.3	11.3	11.3
60°	5937.5	1241.3	79.4	39.7	22.7	14.2	8.5	8.5	5.7	5.7	5.7
62.5°	6286.1	1181.8	65.2	34.0	17.0	11.3	5.7	5.7	0.0	0.0	0.0
65°	6668.7	1077.0	53.8	25.5	14.2	8.5	5.7	0.0	0.0	0.0	0.0
67.5°	6580.8	864.4	45.3	17.0	11.3	5.7	2.8	0.0	0.0	0.0	0.0
70°	5821.3	583.8	36.8	14.2	8.5	5.7	2.8	0.0	0.0	0.0	0.0
72.5°	4560.1	345.8	25.5	11.3	5.7	2.8	0.0	0.0	0.0	0.0	0.0
75°	2919.2	172.9	17.0	8.5	5.7	2.8	0.0	0.0	0.0	0.0	0.0
77.5°	977.8	85.0	11.3	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	138.9	28.3	5.7	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.2	11.3	2.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.3	5.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.7	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)