

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: P399813

Luminaire Tested: **ARCH-L-PA3-190-827-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399813
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-PA3-190-827-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 810mA 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: 16237 lumens
Efficiency: N/A
Efficacy: 85.9 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

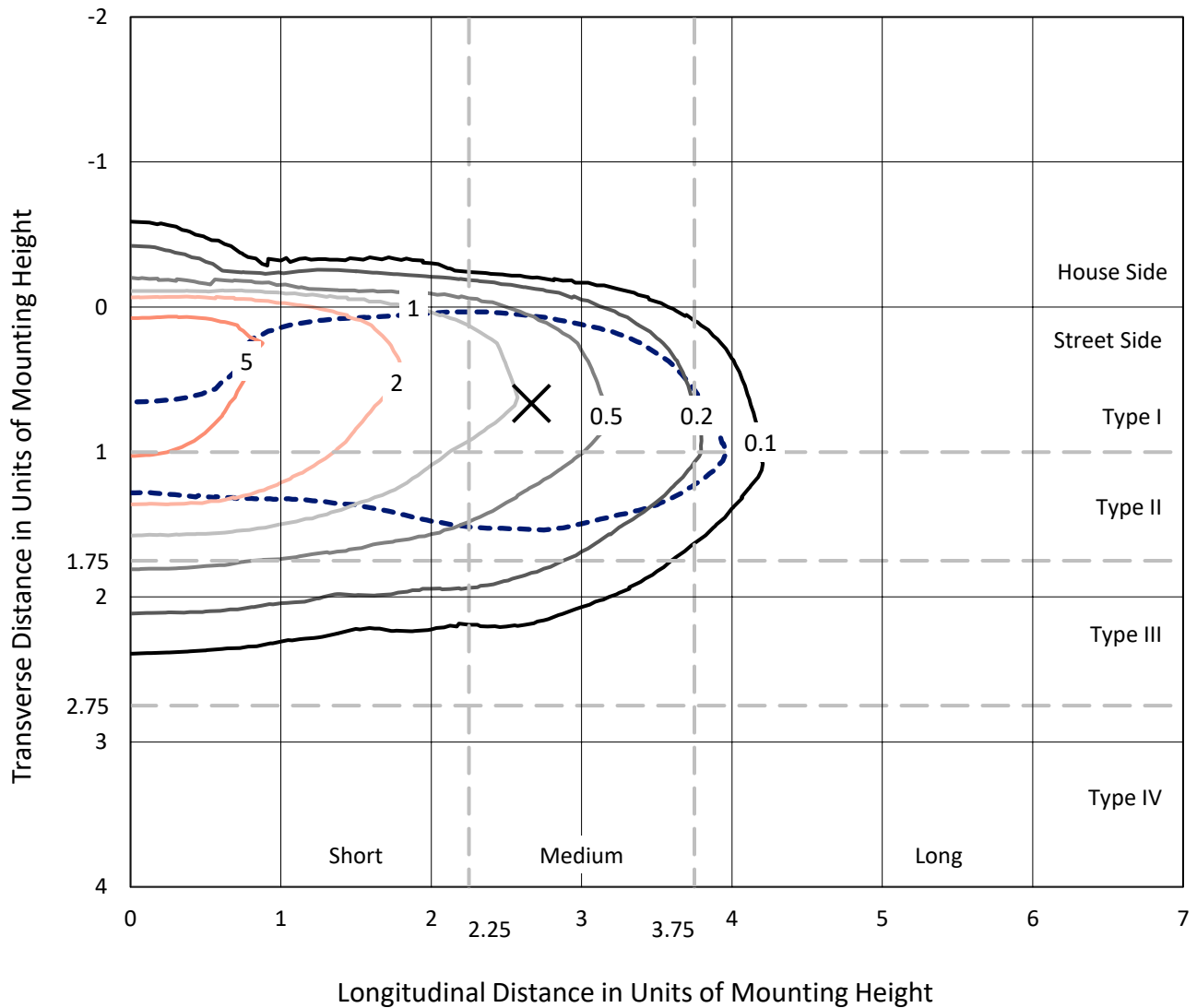
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

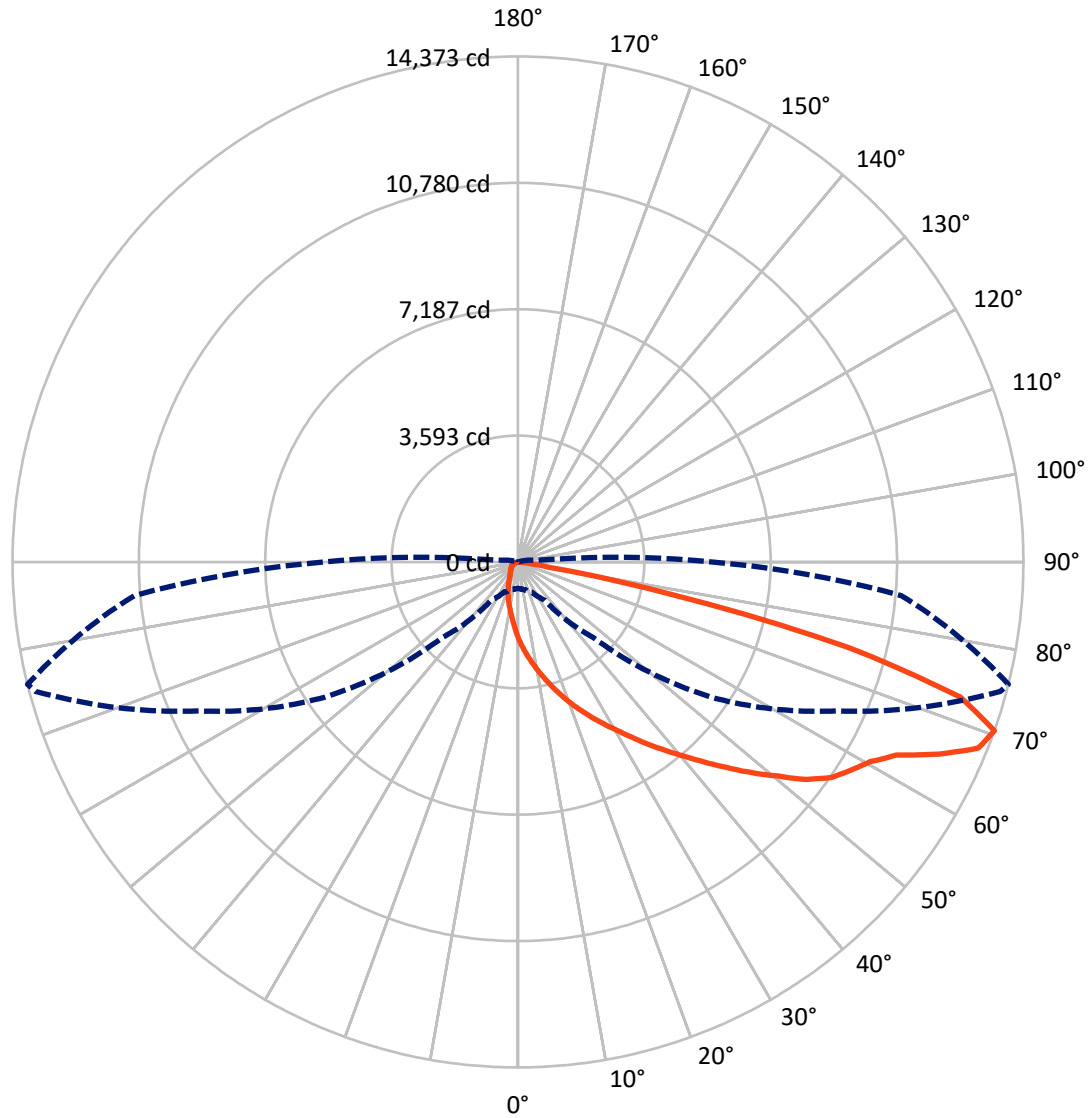
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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
House Side	Lumens	765.8	0.0	765.8
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	15471.2	0.0	15471.2
	% Fixture	95.3	0.0	95.3
Total	Lumens	16237.0	0.0	16237.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	1.3
10°-20°	660.8	4.1
20°-30°	1230.7	7.6
30°-40°	2176.9	13.4
40°-50°	3329.0	20.5
50°-60°	3774.2	23.2
60°-70°	3235.4	19.9
70°-80°	1567.1	9.7
80°-90°	58.1	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°	16237.0	100.0
0°-180°	16237.0	100.0

Coefficient of Utilization

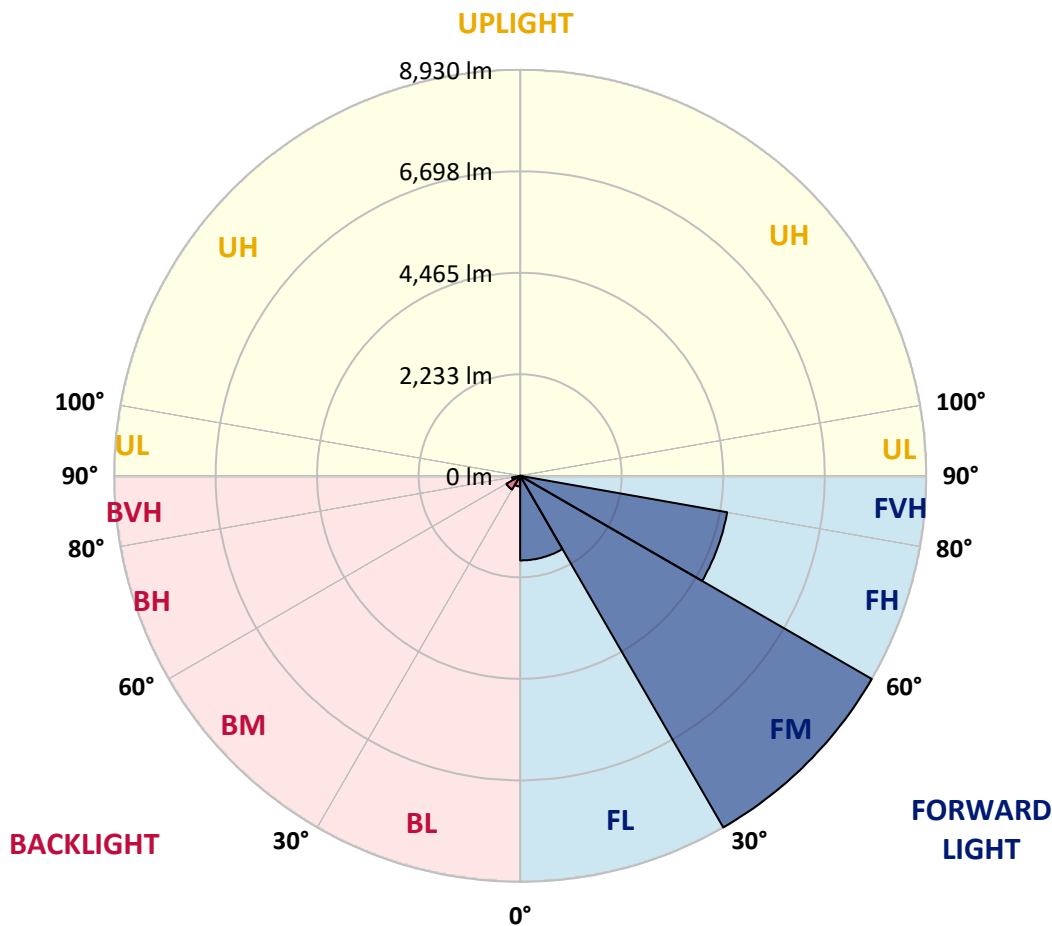


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1861.4	11.5			
FM (30°-60°)	8930.5	55.0			
FH (60°-80°)	4622.2	28.5			G2/5000
FVH (80°-90°)	57.1	0.4			G1/100
BL (0°-30°)	234.9	1.4	B1/500		
BM (30°-60°)	349.6	2.2	B1/1000		
BH (60°-80°)	180.3	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°	2173.4	2173.4	2173.4	2173.4	2173.4	2173.4	2173.4	2173.4	2173.4	2173.4	2173.4
2.5°	2970.9	2954.7	2938.5	2876.3	2819.5	2768.1	2670.8	2543.8	2430.2	2405.9	2273.4
5°	3489.9	3471.0	3446.7	3384.5	3311.5	3225.0	3081.7	2887.1	2687.0	2643.8	2397.8
7.5°	3841.3	3825.1	3790.0	3760.2	3687.3	3603.5	3444.0	3216.9	2941.2	2887.1	2541.1
10°	4081.9	4071.1	4065.7	4041.4	3987.3	3919.7	3760.2	3522.4	3198.0	3135.8	2692.5
12.5°	4168.4	4168.4	4195.5	4236.0	4244.1	4222.5	4076.5	3838.6	3468.3	3403.4	2870.9
15°	4052.2	4065.7	4125.2	4254.9	4390.1	4479.3	4387.4	4165.7	3765.7	3695.4	3081.7
17.5°	4019.8	4033.3	4073.8	4187.4	4368.5	4606.4	4652.3	4482.0	4046.8	3987.3	3298.0
20°	4111.7	4125.2	4160.3	4257.6	4395.5	4636.1	4828.0	4787.5	4344.2	4282.0	3517.0
22.5°	4330.6	4338.7	4338.7	4414.4	4536.1	4714.5	4938.9	5076.7	4649.6	4582.0	3733.2
25°	4801.0	4784.8	4719.9	4682.1	4760.5	4906.4	5079.4	5330.8	4990.2	4898.3	3965.7
27.5°	5417.3	5471.4	5314.6	5133.5	5074.0	5157.8	5276.8	5555.2	5320.0	5222.7	4176.5
30°	6252.7	6231.0	6025.6	5766.1	5509.3	5479.5	5520.1	5747.1	5649.8	5557.9	4411.7
32.5°	6939.3	6979.8	6763.6	6447.3	6063.4	5882.3	5839.1	5976.9	6001.3	5941.8	4690.2
35°	7644.8	7688.1	7477.2	7125.8	6669.0	6366.2	6241.8	6260.8	6436.5	6360.8	4982.1
37.5°	8277.4	8315.2	8107.1	7747.6	7290.7	6920.4	6741.9	6596.0	6858.2	6790.6	5290.3
40°	8758.6	8764.0	8623.4	8301.7	7869.2	7485.3	7282.6	6996.1	7304.2	7258.3	5612.0
42.5°	9099.2	9110.0	9007.3	8731.6	8331.5	7974.6	7809.7	7469.1	7817.8	7777.3	5985.0
45°	9258.7	9277.6	9266.8	9012.7	8680.2	8372.0	8318.0	7971.9	8380.1	8342.3	6414.9
47.5°	9107.3	9107.3	9245.2	9210.0	8904.6	8699.1	8761.3	8496.4	8991.1	8955.9	6852.8
50°	8477.4	8485.6	8766.7	9169.5	8991.1	8945.1	9139.7	9010.0	9545.2	9566.9	7377.2
52.5°	6823.0	6809.5	7758.4	8531.5	8931.6	9055.9	9488.5	9534.4	10210.2	10275.1	7898.9
55°	5098.4	5090.3	5998.5	7401.5	8515.3	8999.2	9683.1	10002.1	10777.9	10818.5	8288.2
57.5°	4036.0	4014.4	4514.5	5966.1	7574.6	8745.1	9691.2	10091.3	11094.2	11164.5	8666.7
60°	3103.4	3084.4	3457.5	4438.8	6241.8	8069.3	9458.7	10096.7	11399.7	11524.0	9174.9
62.5°	2219.4	2241.0	2527.6	3184.4	4801.0	7115.0	9156.0	10172.4	11943.0	12083.6	9896.7
65°	1497.6	1486.8	1724.7	2168.0	3414.2	5830.9	8691.0	10331.9	12921.6	13167.6	10761.7
67.5°	1040.8	1048.9	1157.0	1411.1	2168.0	4476.6	7917.9	10421.1	13932.6	14124.6	11367.2
70°	751.5	762.3	821.8	948.8	1324.6	3035.8	6693.3	10012.9	14205.7	14373.3	10945.5
72.5°	494.7	516.3	605.5	673.1	846.1	1900.4	4930.8	8626.1	13029.7	13154.1	9183.0
75°	267.6	273.0	389.3	502.8	602.8	1184.0	2941.2	5817.4	9748.0	9707.4	6055.3
77.5°	208.2	216.3	240.6	359.5	405.5	651.5	1162.4	2627.6	4617.2	4492.8	2065.3
80°	127.1	132.5	167.6	213.6	283.8	378.5	340.6	713.7	938.0	878.6	302.8
82.5°	75.7	81.1	100.0	178.4	224.4	178.4	118.9	173.0	175.7	173.0	75.7
85°	13.5	13.5	70.3	124.4	118.9	51.4	70.3	56.8	51.4	54.1	16.2
87.5°	0.0	0.0	27.0	37.8	54.1	18.9	27.0	13.5	13.5	13.5	8.1
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°	2173.4	2173.4	2173.4	2173.4	2173.4	2173.4	2173.4	2173.4	2173.4	2173.4	2173.4
2.5°	2192.3	2100.4	1911.2	1746.3	1581.4	1459.8	1367.9	1273.2	1240.8	1200.3	1178.6
5°	2230.2	2049.1	1673.3	1373.3	1119.2	924.5	800.2	724.5	675.8	640.7	632.6
7.5°	2287.0	2008.5	1481.4	1075.9	797.5	602.8	500.1	448.7	421.7	405.5	400.1
10°	2354.5	1973.4	1292.2	838.0	562.3	424.4	367.6	346.0	335.2	329.8	327.1
12.5°	2449.2	1959.9	1132.7	646.1	424.4	348.7	319.0	305.5	297.4	289.2	286.5
15°	2573.5	1965.3	986.7	500.1	351.4	310.9	286.5	273.0	262.2	254.1	254.1
17.5°	2703.3	1973.4	843.4	405.5	319.0	283.8	256.8	237.9	229.8	221.7	219.0
20°	2824.9	1970.7	705.6	346.0	289.2	254.1	227.1	208.2	194.6	186.5	186.5
22.5°	2941.2	1954.5	575.8	310.9	264.9	224.4	194.6	175.7	164.9	156.8	156.8
25°	3065.5	1922.0	470.4	283.8	235.2	197.3	167.6	148.7	140.6	132.5	132.5
27.5°	3162.8	1868.0	383.9	259.5	208.2	170.3	143.3	127.1	118.9	113.5	113.5
30°	3268.2	1789.6	319.0	232.5	181.1	146.0	121.6	108.1	100.0	97.3	97.3
32.5°	3384.5	1703.1	273.0	205.4	154.1	124.4	102.7	94.6	86.5	83.8	83.8
35°	3519.7	1627.4	246.0	178.4	135.2	105.4	89.2	81.1	75.7	75.7	75.7
37.5°	3673.7	1549.0	221.7	156.8	116.2	89.2	75.7	73.0	70.3	67.6	67.6
40°	3841.3	1465.2	200.0	137.9	100.0	75.7	64.9	64.9	62.2	62.2	62.2
42.5°	4030.6	1392.2	181.1	121.6	86.5	64.9	56.8	56.8	54.1	54.1	54.1
45°	4236.0	1324.6	164.9	108.1	75.7	56.8	51.4	48.7	46.0	46.0	46.0
47.5°	4479.3	1286.8	151.4	94.6	64.9	48.7	43.3	40.5	37.8	35.1	35.1
50°	4790.2	1303.0	137.9	78.4	56.8	40.5	35.1	32.4	29.7	27.0	27.0
52.5°	5036.2	1294.9	118.9	67.6	46.0	32.4	27.0	24.3	21.6	18.9	18.9
55°	5214.6	1262.4	102.7	56.8	35.1	27.0	21.6	16.2	13.5	13.5	13.5
57.5°	5390.3	1230.0	86.5	46.0	27.0	18.9	13.5	10.8	10.8	10.8	10.8
60°	5663.3	1184.0	75.7	37.8	21.6	13.5	8.1	8.1	5.4	5.4	5.4
62.5°	5995.8	1127.3	62.2	32.4	16.2	10.8	5.4	5.4	0.0	0.0	0.0
65°	6360.8	1027.2	51.4	24.3	13.5	8.1	5.4	0.0	0.0	0.0	0.0
67.5°	6277.0	824.5	43.3	16.2	10.8	5.4	2.7	0.0	0.0	0.0	0.0
70°	5552.5	556.9	35.1	13.5	8.1	5.4	2.7	0.0	0.0	0.0	0.0
72.5°	4349.6	329.8	24.3	10.8	5.4	2.7	0.0	0.0	0.0	0.0	0.0
75°	2784.4	164.9	16.2	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0
77.5°	932.6	81.1	10.8	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	132.5	27.0	5.4	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.7	10.8	2.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.8	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	2.7	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)