

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: P400389

Luminaire Tested: **ARCH-L-PA3-270-827-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400389
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-PA3-270-827-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1155mA 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: 20705 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

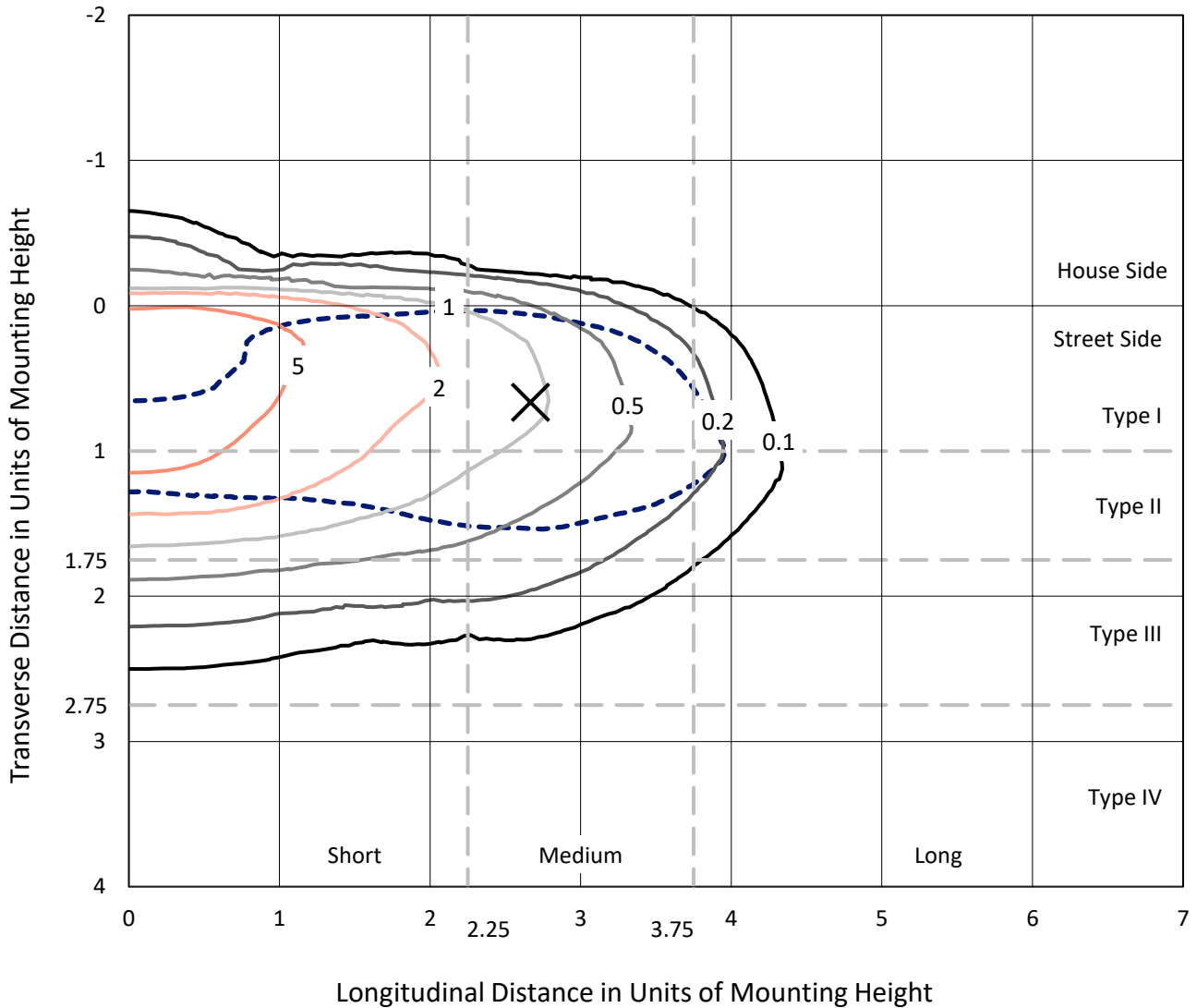
Input Watts (W): 273
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

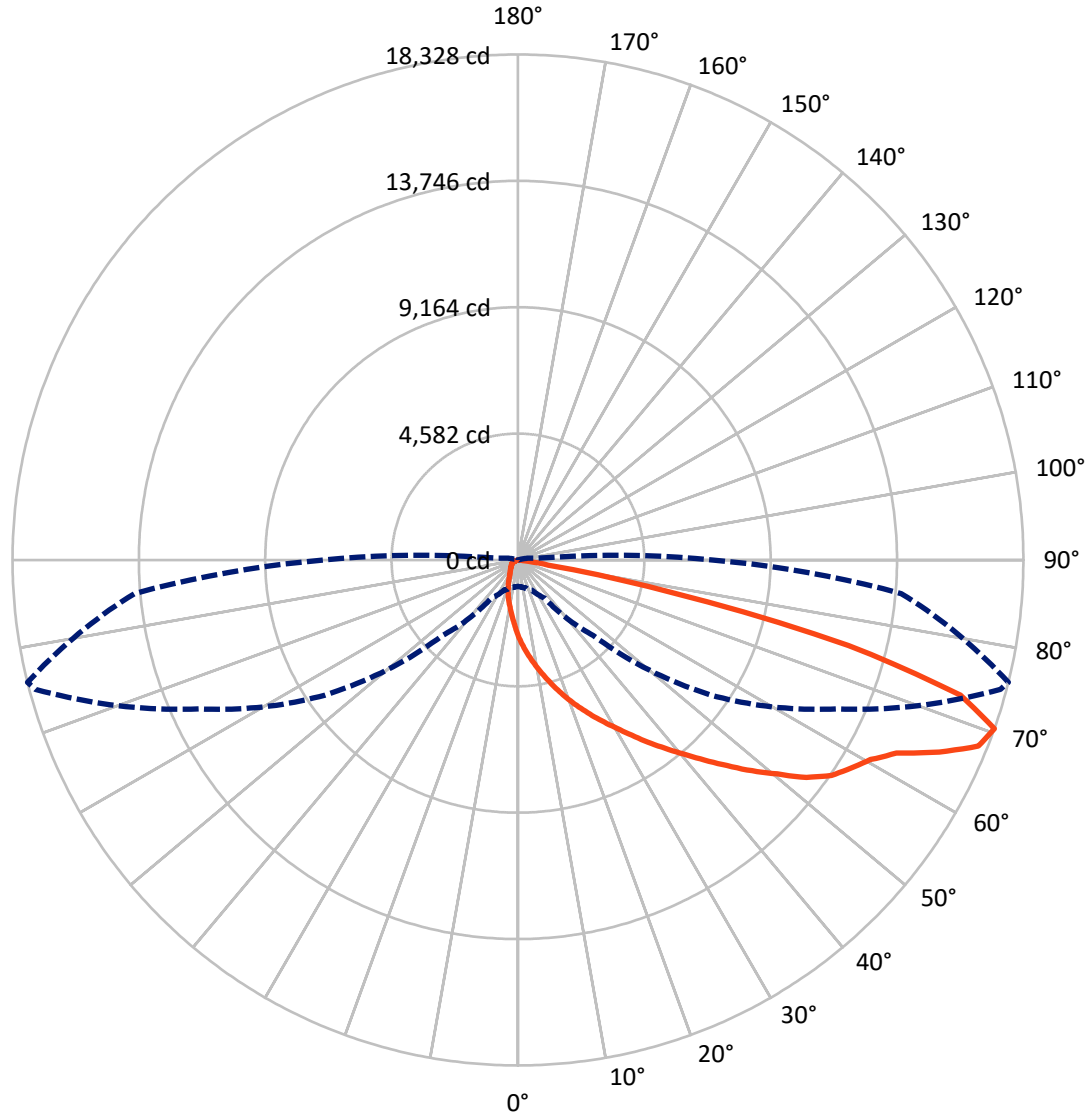
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	976.5	0.0	976.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	19728.5	0.0	19728.5
	% Fixture	95.3	0.0	95.3
Total	Lumens	20705.0	0.0	20705.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.1	1.3
10°-20°	842.7	4.1
20°-30°	1569.4	7.6
30°-40°	2775.9	13.4
40°-50°	4245.0	20.5
50°-60°	4812.8	23.2
60°-70°	4125.8	19.9
70°-80°	1998.3	9.7
80°-90°	74.1	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°	20705.0	100.0
0°-180°	20705.0	100.0

Coefficient of Utilization

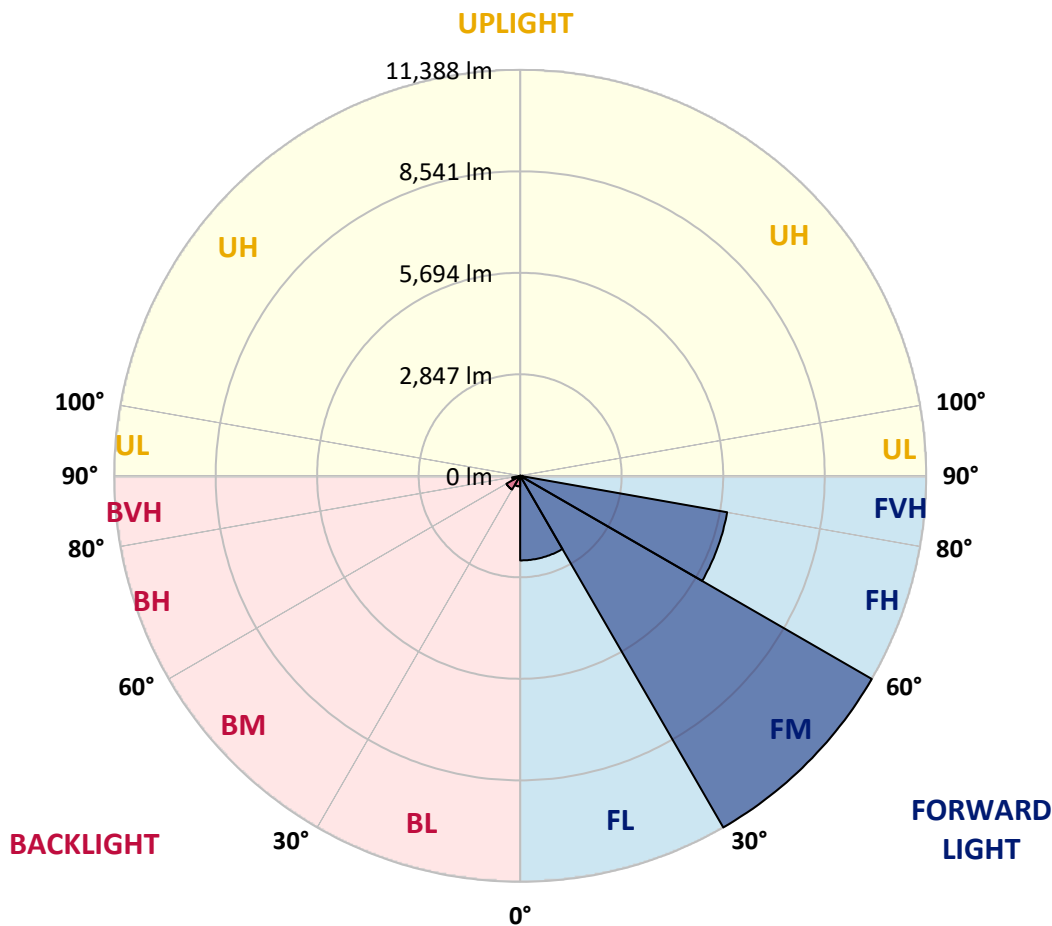


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2373.6	11.5			
FM (30°-60°)	11387.9	55.0			
FH (60°-80°)	5894.1	28.5			G3/7500
FVH (80°-90°)	72.9	0.4			G1/100
BL (0°-30°)	299.6	1.4	B1/500		
BM (30°-60°)	445.8	2.2	B1/1000		
BH (60°-80°)	229.9	1.1	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5
2.5°	3788.4	3767.7	3747.0	3667.8	3595.4	3529.9	3405.8	3243.8	3099.0	3068.0	2899.0
5°	4450.3	4426.1	4395.1	4315.8	4222.7	4112.4	3929.7	3681.5	3426.5	3371.3	3057.6
7.5°	4898.4	4877.7	4832.9	4795.0	4701.9	4595.0	4391.7	4102.1	3750.5	3681.5	3240.3
10°	5205.2	5191.4	5184.5	5153.5	5084.5	4998.3	4795.0	4491.6	4078.0	3998.7	3433.3
12.5°	5315.5	5315.5	5350.0	5401.7	5412.0	5384.4	5198.3	4894.9	4422.7	4339.9	3660.9
15°	5167.3	5184.5	5260.3	5425.8	5598.1	5711.9	5594.7	5312.0	4801.9	4712.2	3929.7
17.5°	5125.9	5143.1	5194.8	5339.6	5570.6	5873.9	5932.5	5715.4	5160.4	5084.5	4205.5
20°	5243.1	5260.3	5305.1	5429.2	5605.0	5911.8	6156.6	6104.9	5539.5	5460.3	4484.7
22.5°	5522.3	5532.7	5532.7	5629.2	5784.3	6011.8	6297.9	6473.7	5929.1	5842.9	4760.5
25°	6122.1	6101.4	6018.7	5970.4	6070.4	6256.6	6477.2	6797.8	6363.4	6246.2	5056.9
27.5°	6908.1	6977.0	6777.1	6546.1	6470.3	6577.1	6728.8	7083.9	6784.0	6659.9	5325.8
30°	7973.2	7945.6	7683.7	7352.7	7025.3	6987.3	7039.1	7328.6	7204.5	7087.3	5625.7
32.5°	8848.8	8900.5	8624.7	8221.4	7731.9	7501.0	7445.8	7621.6	7652.6	7576.8	5980.8
35°	9748.5	9803.7	9534.8	9086.7	8504.1	8118.0	7959.4	7983.6	8207.6	8111.1	6353.1
37.5°	10555.1	10603.4	10338.0	9879.5	9296.9	8824.7	8597.2	8411.0	8745.4	8659.2	6746.0
40°	11168.7	11175.6	10996.4	10586.2	10034.6	9545.1	9286.6	8921.2	9314.2	9255.6	7156.3
42.5°	11603.1	11616.8	11485.9	11134.2	10624.1	10169.1	9958.8	9524.4	9969.1	9917.4	7632.0
45°	11806.4	11830.6	11816.8	11492.8	11068.8	10675.8	10606.8	10165.6	10686.1	10637.9	8180.1
47.5°	11613.4	11613.4	11789.2	11744.4	11354.9	11092.9	11172.2	10834.3	11465.2	11420.4	8738.5
50°	10810.2	10820.6	11179.1	11692.7	11465.2	11406.6	11654.8	11489.3	12171.8	12199.4	9407.2
52.5°	8700.6	8683.3	9893.3	10879.2	11389.3	11547.9	12099.4	12158.0	13019.8	13102.6	10072.5
55°	6501.3	6491.0	7649.2	9438.3	10858.5	11475.5	12347.6	12754.4	13743.7	13795.4	10568.9
57.5°	5146.6	5119.0	5756.7	7607.8	9658.9	11151.5	12358.0	12868.2	14147.0	14236.7	11051.5
60°	3957.3	3933.2	4408.9	5660.2	7959.4	10289.7	12061.5	12875.1	14536.6	14695.1	11699.6
62.5°	2830.1	2857.7	3223.1	4060.7	6122.1	9072.9	11675.4	12971.6	15229.4	15408.7	12620.0
65°	1909.7	1895.9	2199.3	2764.6	4353.7	7435.5	11082.5	13175.0	16477.3	16791.0	13723.0
67.5°	1327.1	1337.5	1475.4	1799.4	2764.6	5708.5	10096.7	13288.7	17766.5	18011.3	14495.2
70°	958.3	972.1	1047.9	1209.9	1689.1	3871.1	8535.1	12768.2	18114.7	18328.4	13957.5
72.5°	630.8	658.4	772.2	858.3	1079.0	2423.3	6287.6	10999.8	16615.2	16773.8	11709.9
75°	341.3	348.2	496.4	641.2	768.7	1509.8	3750.5	7418.2	12430.4	12378.7	7721.6
77.5°	265.4	275.8	306.8	458.5	517.1	830.8	1482.3	3350.6	5887.7	5729.1	2633.6
80°	162.0	168.9	213.7	272.3	361.9	482.6	434.3	910.0	1196.2	1120.3	386.1
82.5°	96.5	103.4	127.5	227.5	286.1	227.5	151.7	220.6	224.1	220.6	96.5
85°	17.2	17.2	89.6	158.6	151.7	65.5	89.6	72.4	65.5	68.9	20.7
87.5°	0.0	0.0	34.5	48.3	68.9	24.1	34.5	17.2	17.2	17.2	10.3
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°	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5	2771.5
2.5°	2795.6	2678.4	2437.1	2226.8	2016.6	1861.5	1744.3	1623.6	1582.2	1530.5	1503.0
5°	2843.9	2612.9	2133.8	1751.1	1427.1	1178.9	1020.4	923.8	861.8	817.0	806.6
7.5°	2916.3	2561.2	1889.0	1372.0	1016.9	768.7	637.7	572.2	537.8	517.1	510.2
10°	3002.5	2516.4	1647.7	1068.6	717.0	541.2	468.8	441.2	427.4	420.6	417.1
12.5°	3123.1	2499.2	1444.3	823.9	541.2	444.7	406.8	389.5	379.2	368.8	365.4
15°	3281.7	2506.1	1258.2	637.7	448.1	396.4	365.4	348.2	334.4	324.0	324.0
17.5°	3447.1	2516.4	1075.5	517.1	406.8	361.9	327.5	303.3	293.0	282.7	279.2
20°	3602.3	2513.0	899.7	441.2	368.8	324.0	289.6	265.4	248.2	237.9	237.9
22.5°	3750.5	2492.3	734.2	396.4	337.8	286.1	248.2	224.1	210.3	199.9	199.9
25°	3909.1	2450.9	599.8	361.9	299.9	251.6	213.7	189.6	179.3	168.9	168.9
27.5°	4033.1	2382.0	489.5	330.9	265.4	217.2	182.7	162.0	151.7	144.8	144.8
30°	4167.6	2282.0	406.8	296.5	231.0	186.1	155.1	137.9	127.5	124.1	124.1
32.5°	4315.8	2171.7	348.2	262.0	196.5	158.6	131.0	120.6	110.3	106.9	106.9
35°	4488.2	2075.2	313.7	227.5	172.4	134.4	113.8	103.4	96.5	96.5	96.5
37.5°	4684.7	1975.2	282.7	199.9	148.2	113.8	96.5	93.1	89.6	86.2	86.2
40°	4898.4	1868.3	255.1	175.8	127.5	96.5	82.7	82.7	79.3	79.3	79.3
42.5°	5139.7	1775.3	231.0	155.1	110.3	82.7	72.4	72.4	68.9	68.9	68.9
45°	5401.7	1689.1	210.3	137.9	96.5	72.4	65.5	62.0	58.6	58.6	58.6
47.5°	5711.9	1640.8	193.0	120.6	82.7	62.0	55.2	51.7	48.3	44.8	44.8
50°	6108.3	1661.5	175.8	100.0	72.4	51.7	44.8	41.4	37.9	34.5	34.5
52.5°	6422.0	1651.2	151.7	86.2	58.6	41.4	34.5	31.0	27.6	24.1	24.1
55°	6649.5	1609.8	131.0	72.4	44.8	34.5	27.6	20.7	17.2	17.2	17.2
57.5°	6873.6	1568.4	110.3	58.6	34.5	24.1	17.2	13.8	13.8	13.8	13.8
60°	7221.7	1509.8	96.5	48.3	27.6	17.2	10.3	10.3	6.9	6.9	6.9
62.5°	7645.7	1437.5	79.3	41.4	20.7	13.8	6.9	6.9	0.0	0.0	0.0
65°	8111.1	1309.9	65.5	31.0	17.2	10.3	6.9	0.0	0.0	0.0	0.0
67.5°	8004.2	1051.4	55.2	20.7	13.8	6.9	3.4	0.0	0.0	0.0	0.0
70°	7080.4	710.1	44.8	17.2	10.3	6.9	3.4	0.0	0.0	0.0	0.0
72.5°	5546.4	420.6	31.0	13.8	6.9	3.4	0.0	0.0	0.0	0.0	0.0
75°	3550.5	210.3	20.7	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0
77.5°	1189.3	103.4	13.8	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	168.9	34.5	6.9	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.9	13.8	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.8	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	3.4	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)