

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: P400326

Luminaire Tested: **ARCH-L-PA3-260-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400326
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-PA3-260-830-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1110mA 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: 21784 lumens
Efficiency: N/A
Efficacy: 83.5 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

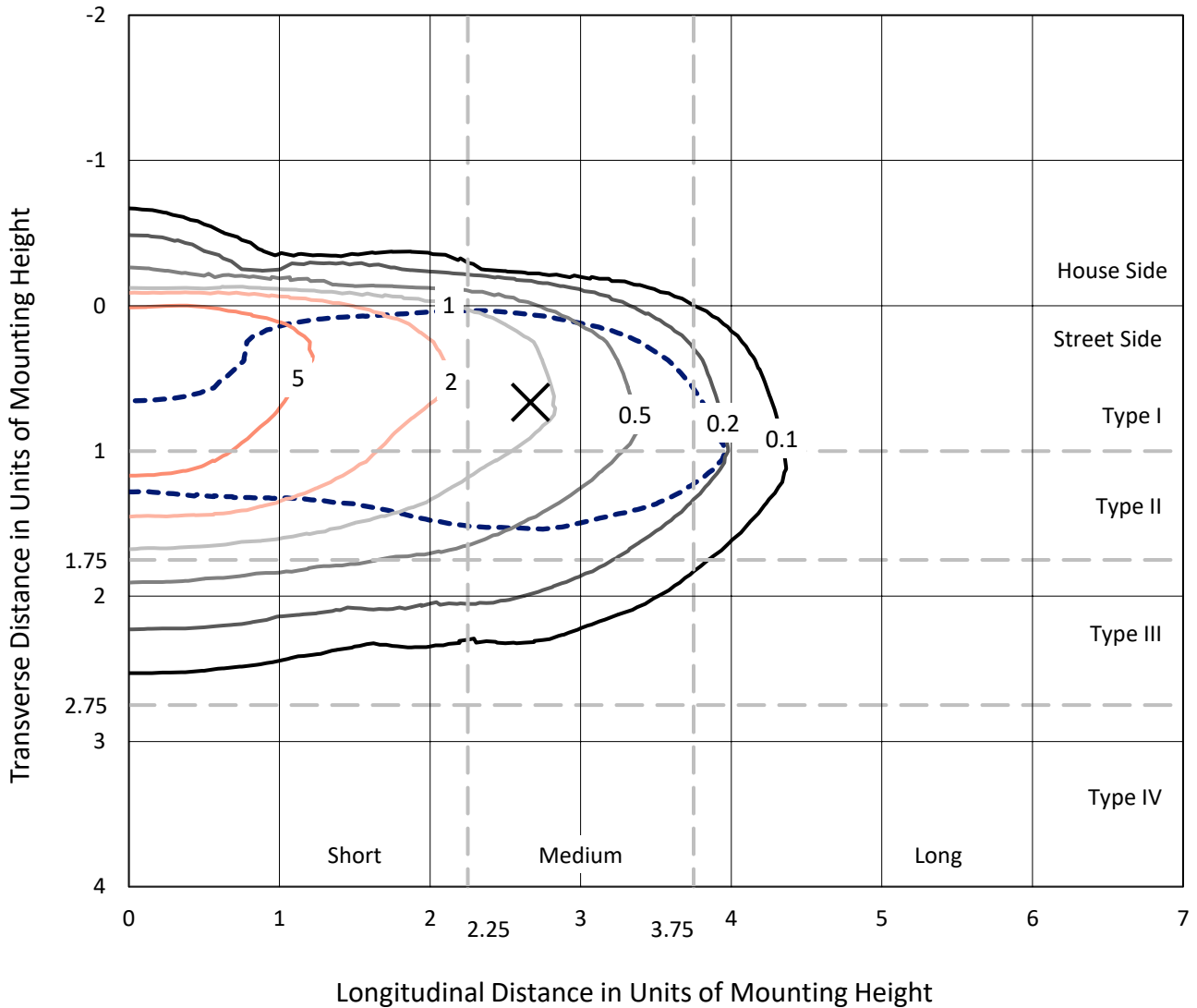
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

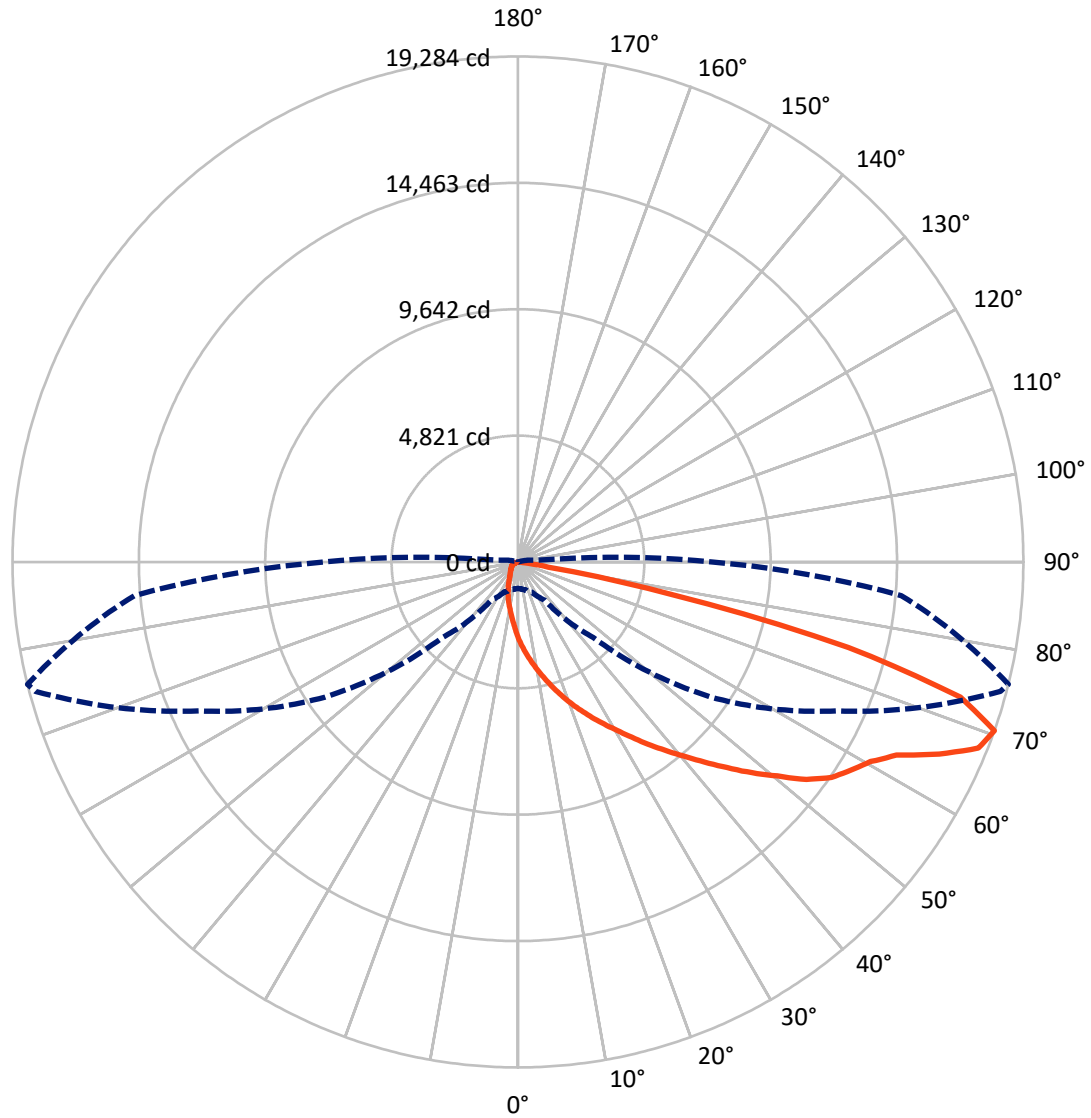
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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	1027.4	0.0	1027.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	20756.6	0.0	20756.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	21784.0	0.0	21784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	1.3
10°-20°	886.6	4.1
20°-30°	1651.2	7.6
30°-40°	2920.6	13.4
40°-50°	4466.2	20.5
50°-60°	5063.6	23.2
60°-70°	4340.8	19.9
70°-80°	2102.4	9.7
80°-90°	78.0	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°	21784.0	100.0
0°-180°	21784.0	100.0

Coefficient of Utilization

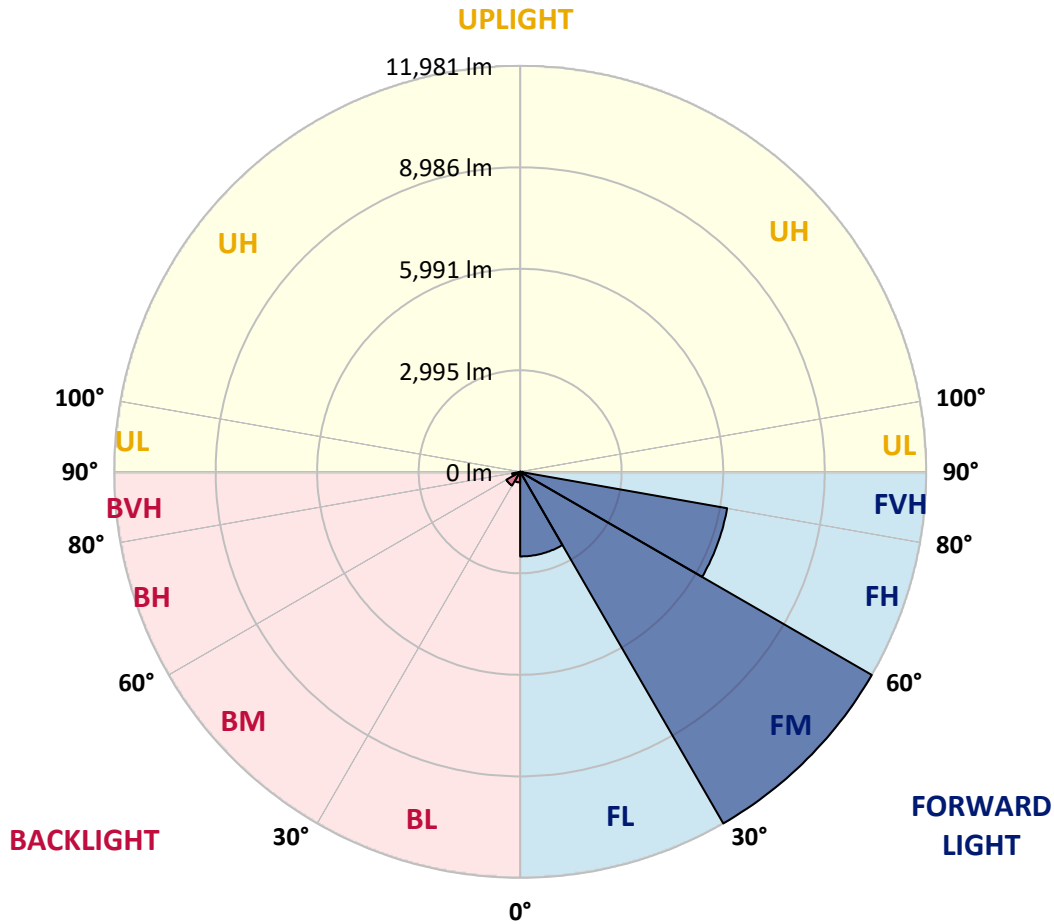


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2497.3	11.5			
FM (30°-60°)	11981.4	55.0			
FH (60°-80°)	6201.3	28.5			G3/7500
FVH (80°-90°)	76.7	0.4			G1/100
BL (0°-30°)	315.2	1.4	B1/500		
BM (30°-60°)	469.0	2.2	B1/1000		
BH (60°-80°)	241.9	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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CATALOG NUMBER: ARCH-L-PA3-260-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2915.9	2915.9	2915.9	2915.9	2915.9	2915.9	2915.9	2915.9	2915.9	2915.9	2915.9
2.5°	3985.8	3964.1	3942.3	3858.9	3782.7	3713.8	3583.3	3412.8	3260.5	3227.8	3050.1
5°	4682.2	4656.8	4624.1	4540.7	4442.8	4326.7	4134.5	3873.4	3605.0	3547.0	3217.0
7.5°	5153.6	5131.9	5084.7	5044.8	4946.9	4834.5	4620.5	4315.9	3945.9	3873.4	3409.2
10°	5476.4	5461.9	5454.7	5422.0	5349.5	5258.8	5044.8	4725.7	4290.5	4207.1	3612.3
12.5°	5592.5	5592.5	5628.8	5683.2	5694.0	5665.0	5469.2	5150.0	4653.2	4566.1	3851.6
15°	5436.5	5454.7	5534.5	5708.5	5889.9	6009.6	5886.3	5588.9	5052.1	4957.8	4134.5
17.5°	5393.0	5411.2	5465.6	5617.9	5860.9	6180.0	6241.7	6013.2	5429.3	5349.5	4424.7
20°	5516.3	5534.5	5581.6	5712.2	5897.1	6219.9	6477.4	6423.0	5828.2	5744.8	4718.4
22.5°	5810.1	5821.0	5821.0	5922.5	6085.7	6325.1	6626.1	6811.1	6238.1	6147.4	5008.6
25°	6441.2	6419.4	6332.4	6281.6	6386.8	6582.6	6814.7	7152.0	6695.0	6571.7	5320.5
27.5°	7268.1	7340.6	7130.2	6887.2	6807.5	6919.9	7079.5	7453.0	7137.5	7006.9	5603.4
30°	8388.7	8359.7	8084.1	7735.9	7391.4	7351.5	7405.9	7710.5	7580.0	7456.7	5918.9
32.5°	9309.9	9364.3	9074.2	8649.9	8134.9	7891.9	7833.8	8018.8	8051.4	7971.7	6292.5
35°	10256.5	10314.6	10031.7	9560.2	8947.3	8541.1	8374.2	8399.6	8635.4	8533.8	6684.1
37.5°	11105.2	11156.0	10876.7	10394.3	9781.4	9284.5	9045.2	8849.3	9201.1	9110.5	7097.6
40°	11750.8	11758.0	11569.4	11137.8	10557.5	10042.5	9770.5	9386.1	9799.6	9737.9	7529.2
42.5°	12207.7	12222.2	12084.4	11714.5	11177.7	10699.0	10477.8	10020.8	10488.6	10434.2	8029.7
45°	12421.7	12447.1	12432.6	12091.7	11645.6	11232.1	11159.6	10695.4	11243.0	11192.2	8606.3
47.5°	12218.6	12218.6	12403.6	12356.4	11946.6	11671.0	11754.4	11399.0	12062.7	12015.5	9193.9
50°	11373.6	11384.5	11761.6	12302.0	12062.7	12001.0	12262.1	12088.0	12806.1	12835.2	9897.5
52.5°	9154.0	9135.8	10408.8	11446.1	11982.9	12149.7	12730.0	12791.6	13698.3	13785.4	10597.4
55°	6840.1	6829.2	8047.8	9930.1	11424.3	12073.5	12991.1	13419.1	14460.0	14514.4	11119.7
57.5°	5414.8	5385.8	6056.7	8004.3	10162.2	11732.6	13002.0	13538.8	14884.3	14978.6	11627.4
60°	4163.5	4138.2	4638.6	5955.2	8374.2	10825.9	12690.1	13546.0	15294.1	15460.9	12309.3
62.5°	2977.6	3006.6	3391.0	4272.3	6441.2	9545.7	12283.9	13647.6	16023.1	16211.7	13277.6
65°	2009.2	1994.7	2313.9	2908.7	4580.6	7823.0	11660.1	13861.5	17336.0	17666.0	14438.2
67.5°	1396.3	1407.2	1552.3	1893.2	2908.7	6005.9	10622.8	13981.2	18692.4	18949.9	15250.6
70°	1008.2	1022.8	1102.5	1273.0	1777.1	4072.9	8979.9	13433.6	19058.7	19283.6	14684.8
72.5°	663.7	692.7	812.4	903.1	1135.2	2549.6	6615.2	11573.0	17481.1	17647.9	12320.2
75°	359.1	366.3	522.3	674.6	808.8	1588.5	3945.9	7804.8	13078.2	13023.8	8124.0
77.5°	279.3	290.1	322.8	482.4	544.0	874.1	1559.5	3525.2	6194.5	6027.7	2770.9
80°	170.5	177.7	224.9	286.5	380.8	507.7	457.0	957.5	1258.5	1178.7	406.2
82.5°	101.5	108.8	134.2	239.4	301.0	239.4	159.6	232.1	235.7	232.1	101.5
85°	18.1	18.1	94.3	166.8	159.6	68.9	94.3	76.2	68.9	72.5	21.8
87.5°	0.0	0.0	36.3	50.8	72.5	25.4	36.3	18.1	18.1	18.1	10.9
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°	2915.9	2915.9	2915.9	2915.9	2915.9	2915.9	2915.9	2915.9	2915.9	2915.9	2915.9
2.5°	2941.3	2818.0	2564.1	2342.9	2121.7	1958.5	1835.1	1708.2	1664.7	1610.3	1581.3
5°	2992.1	2749.1	2245.0	1842.4	1501.5	1240.4	1073.5	972.0	906.7	859.5	848.7
7.5°	3068.3	2694.7	1987.5	1443.5	1069.9	808.8	671.0	602.0	565.8	544.0	536.8
10°	3158.9	2647.5	1733.6	1124.3	754.4	569.4	493.2	464.2	449.7	442.5	438.8
12.5°	3285.9	2629.4	1519.6	866.8	569.4	467.9	428.0	409.8	398.9	388.1	384.4
15°	3452.7	2636.7	1323.8	671.0	471.5	417.1	384.4	366.3	351.8	340.9	340.9
17.5°	3626.8	2647.5	1131.6	544.0	428.0	380.8	344.5	319.2	308.3	297.4	293.8
20°	3790.0	2643.9	946.6	464.2	388.1	340.9	304.6	279.3	261.1	250.2	250.2
22.5°	3945.9	2622.2	772.5	417.1	355.4	301.0	261.1	235.7	221.2	210.4	210.4
25°	4112.8	2578.6	631.1	380.8	315.5	264.8	224.9	199.5	188.6	177.7	177.7
27.5°	4243.3	2506.1	515.0	348.2	279.3	228.5	192.2	170.5	159.6	152.3	152.3
30°	4384.8	2400.9	428.0	311.9	243.0	195.8	163.2	145.1	134.2	130.6	130.6
32.5°	4540.7	2284.9	366.3	275.6	206.7	166.8	137.8	126.9	116.1	112.4	112.4
35°	4722.1	2183.3	330.0	239.4	181.3	141.4	119.7	108.8	101.5	101.5	101.5
37.5°	4928.8	2078.1	297.4	210.4	156.0	119.7	101.5	97.9	94.3	90.7	90.7
40°	5153.6	1965.7	268.4	185.0	134.2	101.5	87.0	87.0	83.4	83.4	83.4
42.5°	5407.5	1867.8	243.0	163.2	116.1	87.0	76.2	76.2	72.5	72.5	72.5
45°	5683.2	1777.1	221.2	145.1	101.5	76.2	68.9	65.3	61.7	61.7	61.7
47.5°	6009.6	1726.3	203.1	126.9	87.0	65.3	58.0	54.4	50.8	47.1	47.1
50°	6426.6	1748.1	185.0	105.2	76.2	54.4	47.1	43.5	39.9	36.3	36.3
52.5°	6756.7	1737.2	159.6	90.7	61.7	43.5	36.3	32.6	29.0	25.4	25.4
55°	6996.1	1693.7	137.8	76.2	47.1	36.3	29.0	21.8	18.1	18.1	18.1
57.5°	7231.8	1650.2	116.1	61.7	36.3	25.4	18.1	14.5	14.5	14.5	14.5
60°	7598.1	1588.5	101.5	50.8	29.0	18.1	10.9	10.9	7.3	7.3	7.3
62.5°	8044.2	1512.4	83.4	43.5	21.8	14.5	7.3	7.3	0.0	0.0	0.0
65°	8533.8	1378.2	68.9	32.6	18.1	10.9	7.3	0.0	0.0	0.0	0.0
67.5°	8421.4	1106.2	58.0	21.8	14.5	7.3	3.6	0.0	0.0	0.0	0.0
70°	7449.4	747.1	47.1	18.1	10.9	7.3	3.6	0.0	0.0	0.0	0.0
72.5°	5835.5	442.5	32.6	14.5	7.3	3.6	0.0	0.0	0.0	0.0	0.0
75°	3735.6	221.2	21.8	10.9	7.3	3.6	0.0	0.0	0.0	0.0	0.0
77.5°	1251.2	108.8	14.5	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	177.7	36.3	7.3	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	39.9	14.5	3.6	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.5	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	3.6	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)