

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: P399894

Luminaire Tested: **ARCH-L-PA3-200-830-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399894
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-PA3-200-830-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 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: 18402 lumens
Efficiency: N/A
Efficacy: 91.6 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

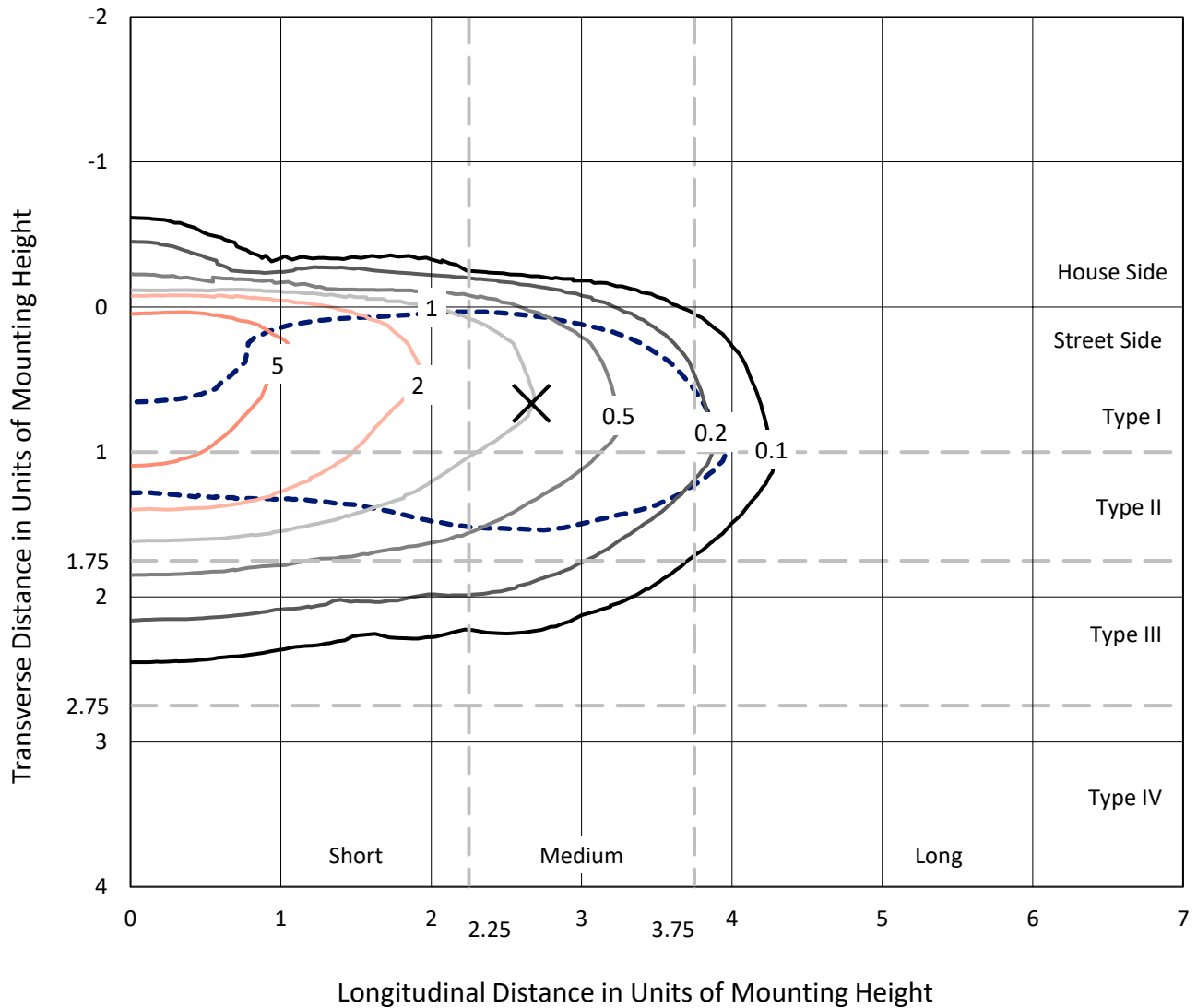
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399894
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Iso-Footcandle Lines of Horizontal Illumination

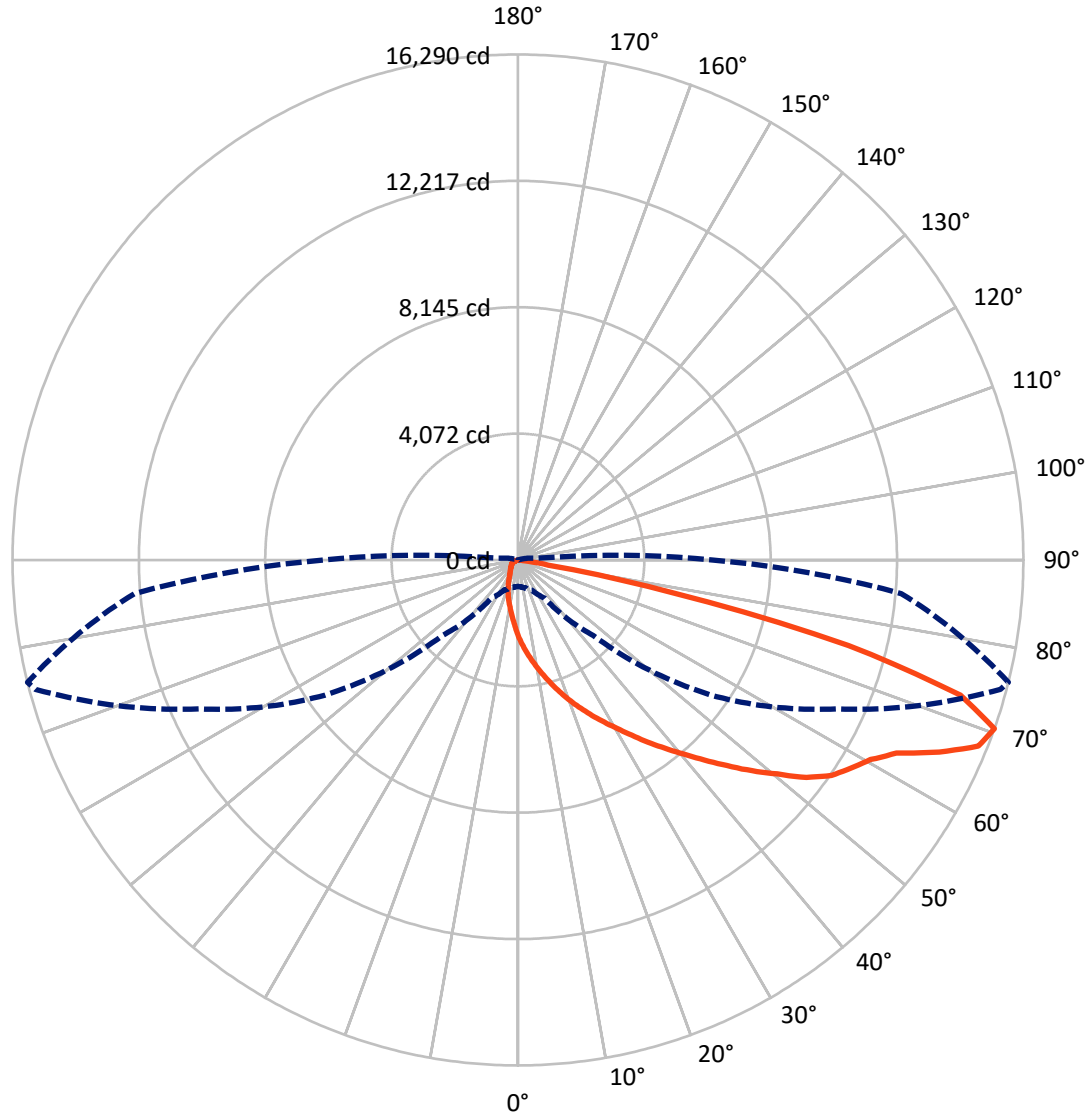
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P399894
CATALOG NUMBER: ARCH-L-PA3-200-830-U-T2R-HSS

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	867.9	0.0	867.9
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	17534.1	0.0	17534.1
	% Fixture	95.3	0.0	95.3
Total	Lumens	18402.0	0.0	18402.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.0	1.3
10°-20°	749.0	4.1
20°-30°	1394.8	7.6
30°-40°	2467.1	13.4
40°-50°	3772.8	20.5
50°-60°	4277.5	23.2
60°-70°	3666.9	19.9
70°-80°	1776.0	9.7
80°-90°	65.9	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°	18402.0	100.0
0°-180°	18402.0	100.0

Coefficient of Utilization



REPORT NUMBER: P399894

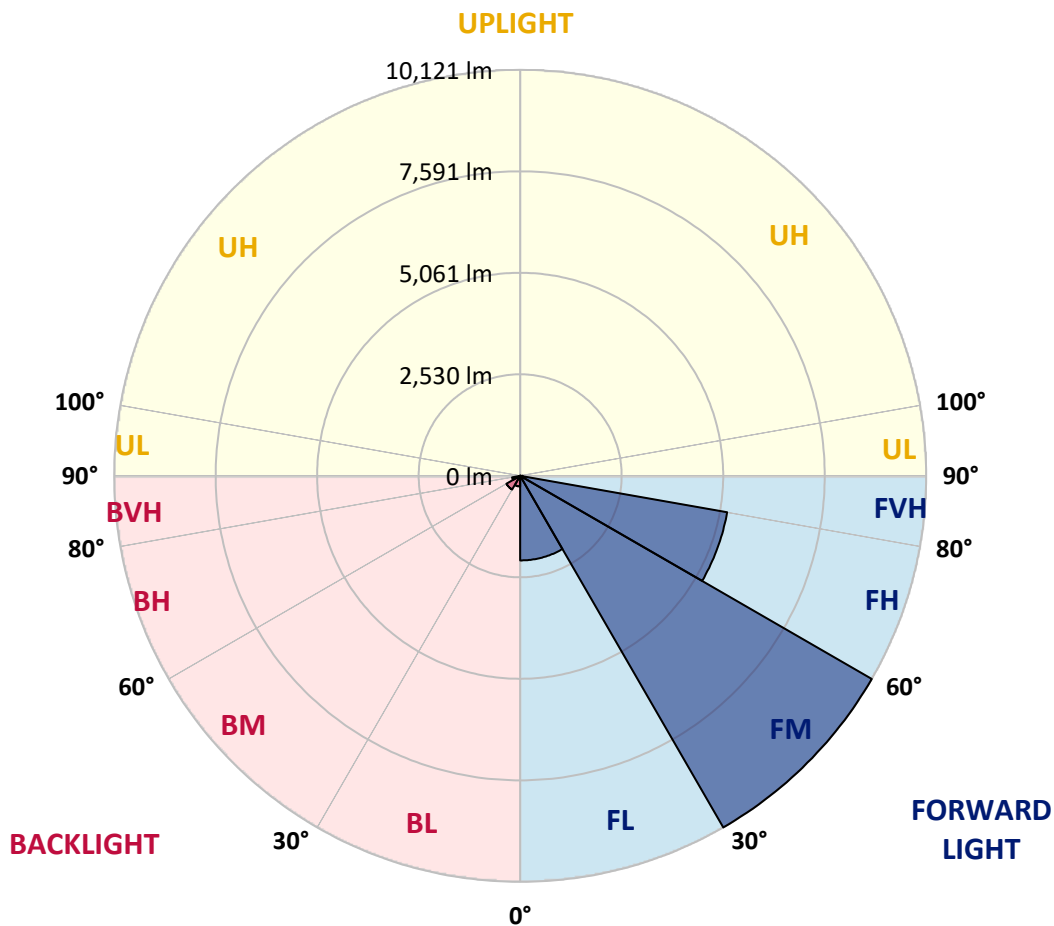
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2109.6	11.5			
FM (30°-60°)	10121.3	55.0			
FH (60°-80°)	5238.5	28.5			G3/7500
FVH (80°-90°)	64.8	0.4			G1/100
BL (0°-30°)	266.2	1.4	B1/500		
BM (30°-60°)	396.2	2.2	B1/1000		
BH (60°-80°)	204.4	1.1	B1/500		G1/500
BVH (80°-90°)	1.1	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





REPORT NUMBER: P399894

CATALOG NUMBER: ARCH-L-PA3-200-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2
2.5°	3367.0	3348.6	3330.3	3259.8	3195.5	3137.2	3026.9	2883.0	2754.3	2726.7	2576.6
5°	3955.3	3933.8	3906.2	3835.8	3753.0	3655.0	3492.6	3272.0	3045.3	2996.3	2717.5
7.5°	4353.5	4335.2	4295.3	4261.6	4178.9	4083.9	3903.2	3645.8	3333.3	3272.0	2879.9
10°	4626.2	4614.0	4607.8	4580.3	4519.0	4442.4	4261.6	3992.0	3624.4	3553.9	3051.5
12.5°	4724.2	4724.2	4754.9	4800.8	4810.0	4785.5	4620.1	4350.5	3930.7	3857.2	3253.7
15°	4592.5	4607.8	4675.2	4822.3	4975.5	5076.6	4972.4	4721.2	4267.8	4188.1	3492.6
17.5°	4555.7	4571.1	4617.0	4745.7	4951.0	5220.6	5272.7	5079.6	4586.4	4519.0	3737.7
20°	4659.9	4675.2	4715.1	4825.3	4981.6	5254.3	5471.8	5425.8	4923.4	4852.9	3985.9
22.5°	4908.1	4917.3	4917.3	5003.0	5140.9	5343.1	5597.4	5753.7	5269.6	5193.0	4231.0
25°	5441.2	5422.8	5349.2	5306.4	5395.2	5560.6	5756.7	6041.6	5655.6	5551.4	4494.5
27.5°	6139.7	6201.0	6023.3	5818.0	5750.6	5845.6	5980.4	6295.9	6029.4	5919.1	4733.4
30°	7086.4	7061.9	6829.0	6534.9	6243.8	6210.1	6256.1	6513.5	6403.2	6299.0	5000.0
32.5°	7864.6	7910.5	7665.4	7307.0	6871.9	6666.6	6617.6	6773.9	6801.4	6734.0	5315.5
35°	8664.2	8713.2	8474.2	8075.9	7558.2	7215.0	7074.1	7095.6	7294.7	7208.9	5646.4
37.5°	9381.1	9424.0	9188.1	8780.6	8262.8	7843.1	7640.9	7475.5	7772.6	7696.0	5995.7
40°	9926.4	9932.6	9773.2	9408.7	8918.5	8483.4	8253.6	7928.9	8278.2	8226.1	6360.3
42.5°	10312.5	10324.7	10208.3	9895.8	9442.4	9038.0	8851.1	8465.0	8860.3	8814.3	6783.1
45°	10493.2	10514.7	10502.4	10214.4	9837.6	9488.3	9427.0	9034.9	9497.5	9454.6	7270.2
47.5°	10321.7	10321.7	10477.9	10438.1	10091.9	9859.0	9929.5	9629.3	10189.9	10150.1	7766.5
50°	9607.8	9617.0	9935.6	10392.1	10189.9	10137.8	10358.4	10211.4	10818.0	10842.5	8360.9
52.5°	7732.8	7717.5	8792.9	9669.1	10122.5	10263.4	10753.6	10805.7	11571.6	11645.2	8952.2
55°	5778.2	5769.0	6798.4	8388.4	9650.7	10199.1	10974.2	11335.7	12215.0	12261.0	9393.3
57.5°	4574.1	4549.6	5116.4	6761.6	8584.5	9911.1	10983.4	11436.8	12573.5	12653.1	9822.3
60°	3517.1	3495.7	3918.5	5030.6	7074.1	9145.2	10719.9	11443.0	12919.7	13060.6	10398.2
62.5°	2515.3	2539.8	2864.6	3609.1	5441.2	8063.7	10376.8	11528.8	13535.5	13694.8	11216.3
65°	1697.3	1685.0	1954.6	2457.1	3869.5	6608.4	9849.8	11709.5	14644.6	14923.3	12196.6
67.5°	1179.5	1188.7	1311.3	1599.3	2457.1	5073.5	8973.6	11810.6	15790.4	16007.9	12882.9
70°	851.7	864.0	931.4	1075.4	1501.2	3440.6	7585.8	11348.0	16099.8	16289.8	12405.0
72.5°	560.7	585.2	686.3	762.9	958.9	2153.8	5588.2	9776.3	14767.1	14908.0	10407.4
75°	303.3	309.4	441.2	569.9	683.2	1341.9	3333.3	6593.1	11047.8	11001.8	6862.7
77.5°	235.9	245.1	272.7	407.5	459.6	738.4	1317.4	2977.9	5232.8	5091.9	2340.7
80°	144.0	150.1	190.0	242.0	321.7	428.9	386.0	808.8	1063.1	995.7	343.1
82.5°	85.8	91.9	113.4	202.2	254.3	202.2	134.8	196.1	199.1	196.1	85.8
85°	15.3	15.3	79.7	140.9	134.8	58.2	79.7	64.3	58.2	61.3	18.4
87.5°	0.0	0.0	30.6	42.9	61.3	21.4	30.6	15.3	15.3	15.3	9.2
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°	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2	2463.2
2.5°	2484.7	2380.5	2166.0	1979.2	1792.3	1654.4	1550.2	1443.0	1406.2	1360.3	1335.8
5°	2527.6	2322.3	1896.4	1556.4	1268.4	1047.8	906.9	821.1	765.9	726.1	716.9
7.5°	2591.9	2276.3	1678.9	1219.4	903.8	683.2	566.8	508.6	477.9	459.6	453.4
10°	2668.5	2236.5	1464.5	949.8	637.3	481.0	416.7	392.2	379.9	373.8	370.7
12.5°	2775.7	2221.2	1283.7	732.2	481.0	395.2	361.5	346.2	337.0	327.8	324.8
15°	2916.7	2227.3	1118.3	566.8	398.3	352.3	324.8	309.4	297.2	288.0	288.0
17.5°	3063.7	2236.5	955.9	459.6	361.5	321.7	291.1	269.6	260.4	251.2	248.2
20°	3201.6	2233.4	799.6	392.2	327.8	288.0	257.4	235.9	220.6	211.4	211.4
22.5°	3333.3	2215.1	652.6	352.3	300.2	254.3	220.6	199.1	186.9	177.7	177.7
25°	3474.3	2178.3	533.1	321.7	266.5	223.7	190.0	168.5	159.3	150.1	150.1
27.5°	3584.5	2117.0	435.0	294.1	235.9	193.0	162.4	144.0	134.8	128.7	128.7
30°	3704.0	2028.2	361.5	263.5	205.3	165.4	137.9	122.5	113.4	110.3	110.3
32.5°	3835.8	1930.1	309.4	232.8	174.6	140.9	116.4	107.2	98.0	95.0	95.0
35°	3989.0	1844.4	278.8	202.2	153.2	119.5	101.1	91.9	85.8	85.8	85.8
37.5°	4163.6	1755.5	251.2	177.7	131.7	101.1	85.8	82.7	79.7	76.6	76.6
40°	4353.5	1660.5	226.7	156.2	113.4	85.8	73.5	73.5	70.5	70.5	70.5
42.5°	4568.0	1577.8	205.3	137.9	98.0	73.5	64.3	64.3	61.3	61.3	61.3
45°	4800.8	1501.2	186.9	122.5	85.8	64.3	58.2	55.1	52.1	52.1	52.1
47.5°	5076.6	1458.3	171.6	107.2	73.5	55.1	49.0	46.0	42.9	39.8	39.8
50°	5428.9	1476.7	156.2	88.8	64.3	46.0	39.8	36.8	33.7	30.6	30.6
52.5°	5707.7	1467.5	134.8	76.6	52.1	36.8	30.6	27.6	24.5	21.4	21.4
55°	5909.9	1430.8	116.4	64.3	39.8	30.6	24.5	18.4	15.3	15.3	15.3
57.5°	6109.0	1394.0	98.0	52.1	30.6	21.4	15.3	12.3	12.3	12.3	12.3
60°	6418.5	1341.9	85.8	42.9	24.5	15.3	9.2	9.2	6.1	6.1	6.1
62.5°	6795.3	1277.6	70.5	36.8	18.4	12.3	6.1	6.1	0.0	0.0	0.0
65°	7208.9	1164.2	58.2	27.6	15.3	9.2	6.1	0.0	0.0	0.0	0.0
67.5°	7113.9	934.4	49.0	18.4	12.3	6.1	3.1	0.0	0.0	0.0	0.0
70°	6292.9	631.1	39.8	15.3	9.2	6.1	3.1	0.0	0.0	0.0	0.0
72.5°	4929.5	373.8	27.6	12.3	6.1	3.1	0.0	0.0	0.0	0.0	0.0
75°	3155.6	186.9	18.4	9.2	6.1	3.1	0.0	0.0	0.0	0.0	0.0
77.5°	1057.0	91.9	12.3	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	150.1	30.6	6.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.7	12.3	3.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.3	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	3.1	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)