

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: P399147

Luminaire Tested: **ARCH-L-PA3-100-750-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399147
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-PA3-100-750-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 440mA 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: 13351 lumens
Efficiency: N/A
Efficacy: 130.9 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

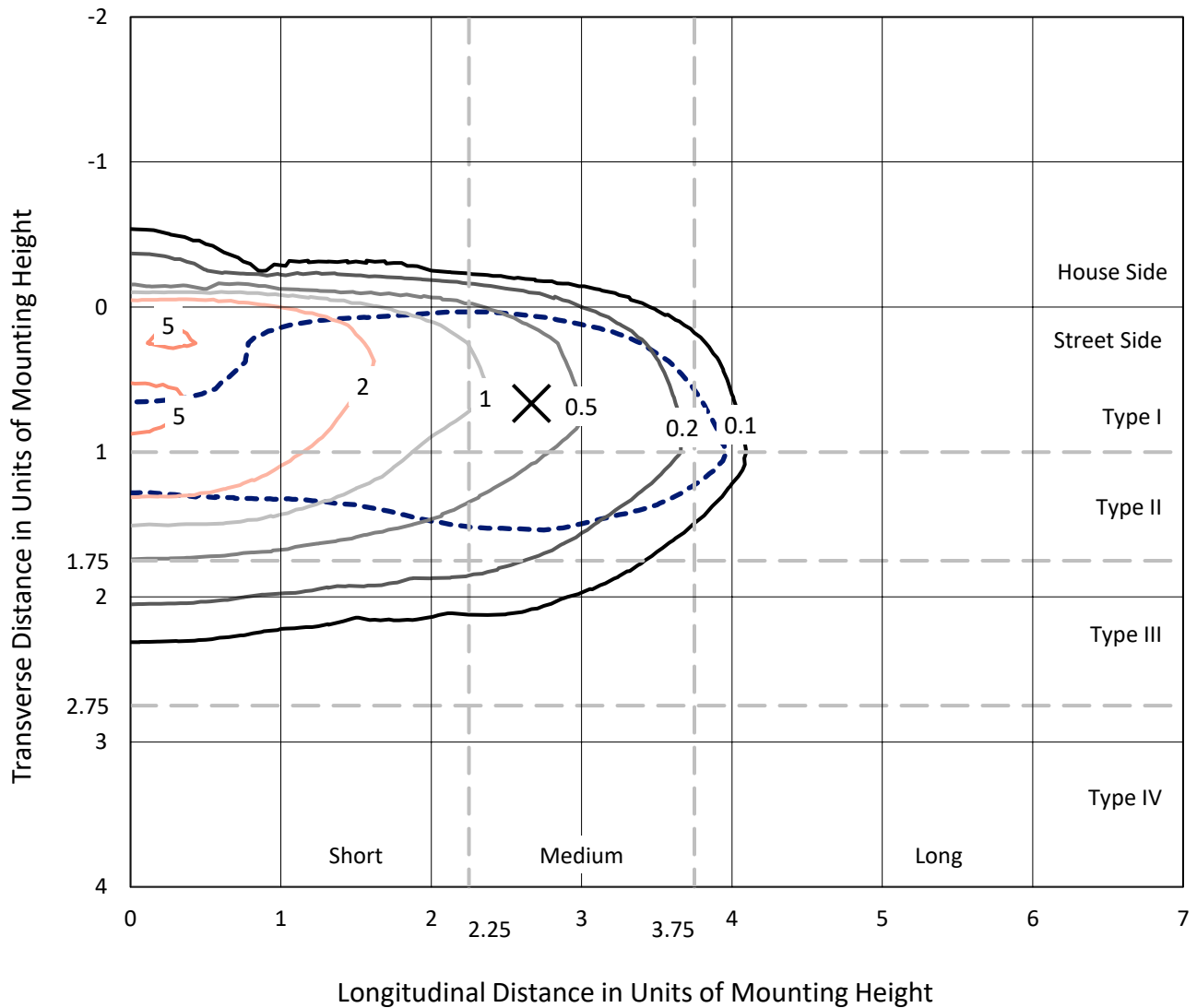
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P399147
 CATALOG NUMBER: ARCH-L-PA3-100-750-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

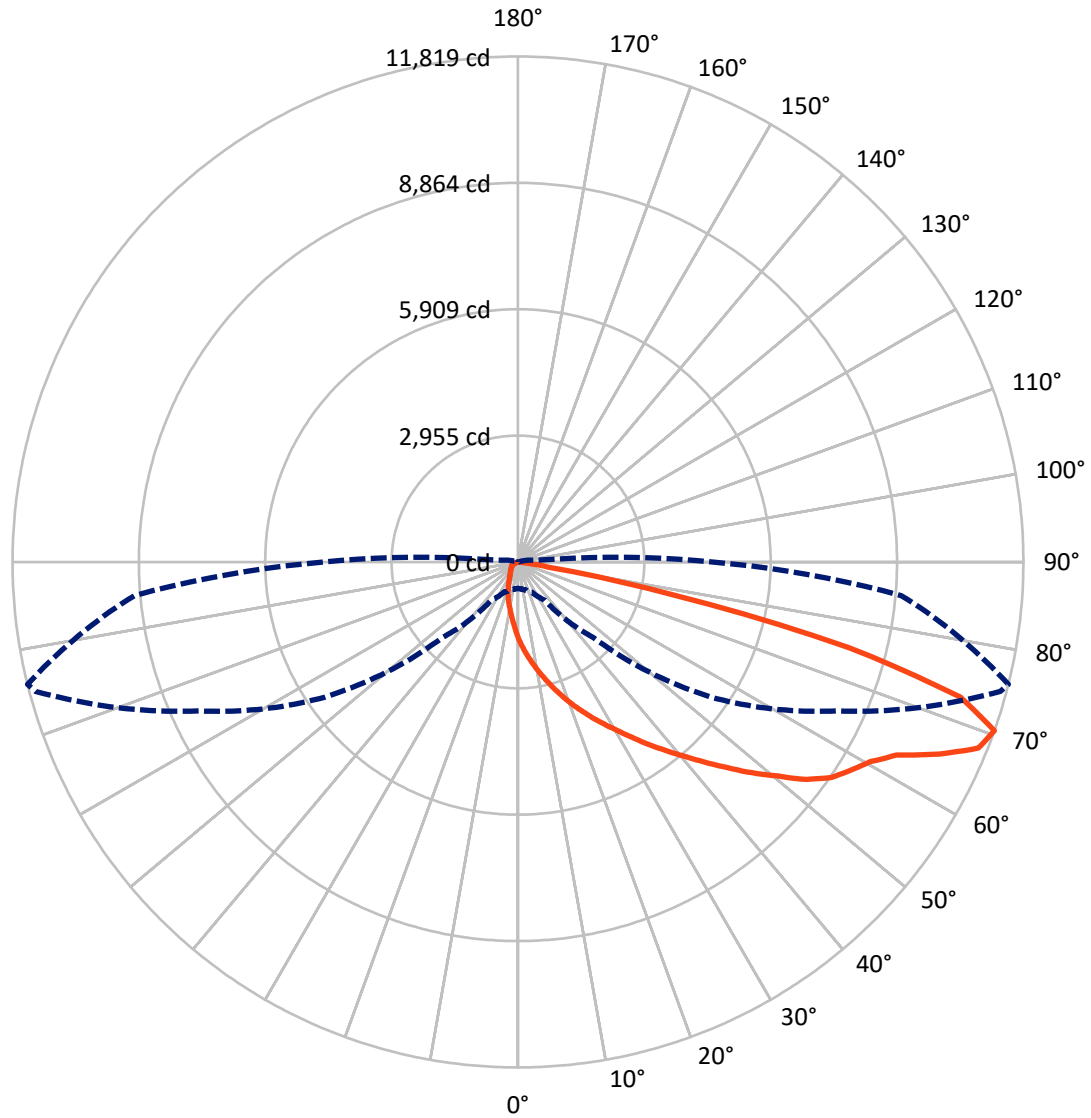
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P399147
CATALOG NUMBER: ARCH-L-PA3-100-750-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P399147
 CATALOG NUMBER: ARCH-L-PA3-100-750-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	629.7	0.0	629.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	12721.3	0.0	12721.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	13351.0	0.0	13351.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	1.3
10°-20°	543.4	4.1
20°-30°	1012.0	7.6
30°-40°	1790.0	13.4
40°-50°	2737.3	20.5
50°-60°	3103.4	23.2
60°-70°	2660.4	19.9
70°-80°	1288.5	9.7
80°-90°	47.8	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°	13351.0	100.0
0°-180°	13351.0	100.0

Coefficient of Utilization

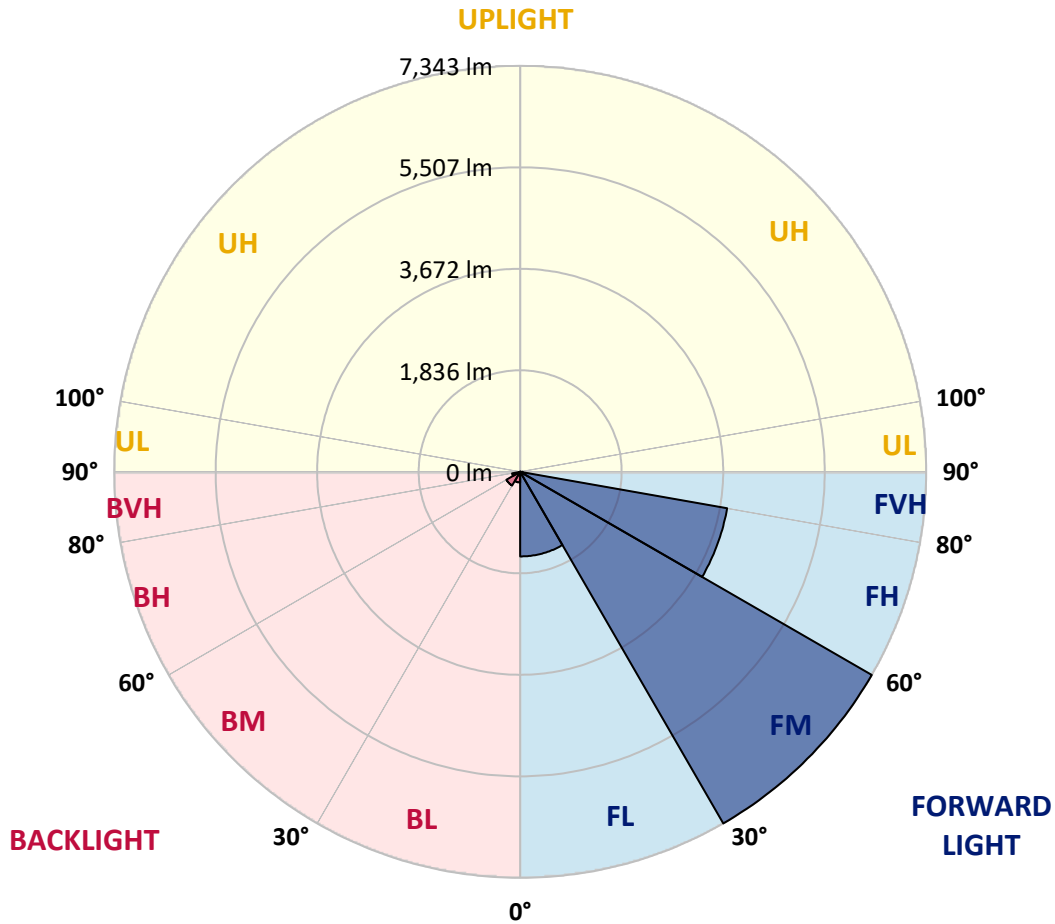


REPORT NUMBER: P399147
 CATALOG NUMBER: ARCH-L-PA3-100-750-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.5	11.5			
FM (30°-60°)	7343.2	55.0			
FH (60°-80°)	3800.6	28.5			G2/5000
FVH (80°-90°)	47.0	0.4			G1/100
BL (0°-30°)	193.2	1.4	B1/500		
BM (30°-60°)	287.4	2.2	B1/1000		
BH (60°-80°)	148.3	1.1	B1/500		G1/500
BVH (80°-90°)	0.8	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





REPORT NUMBER: P399147

CATALOG NUMBER: ARCH-L-PA3-100-750-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1
2.5°	2442.8	2429.5	2416.2	2365.0	2318.4	2276.1	2196.1	2091.6	1998.3	1978.3	1869.4
5°	2869.6	2854.1	2834.0	2782.9	2722.9	2651.8	2534.0	2373.9	2209.4	2173.9	1971.6
7.5°	3158.6	3145.2	3116.3	3091.9	3031.9	2963.0	2831.8	2645.1	2418.4	2373.9	2089.4
10°	3356.4	3347.5	3343.1	3323.1	3278.6	3223.0	3091.9	2896.3	2629.6	2578.4	2213.9
12.5°	3427.5	3427.5	3449.8	3483.1	3489.8	3472.0	3352.0	3156.4	2851.8	2798.5	2360.6
15°	3332.0	3343.1	3392.0	3498.7	3609.8	3683.2	3607.6	3425.3	3096.3	3038.5	2534.0
17.5°	3305.3	3316.4	3349.7	3443.1	3592.0	3787.6	3825.4	3685.4	3327.5	3278.6	2711.8
20°	3380.9	3392.0	3420.9	3500.9	3614.2	3812.1	3969.9	3936.5	3572.0	3520.9	2891.8
22.5°	3560.9	3567.6	3567.6	3629.8	3729.8	3876.5	4061.0	4174.4	3823.2	3767.6	3069.7
25°	3947.7	3934.3	3881.0	3849.9	3914.3	4034.4	4176.6	4383.3	4103.3	4027.7	3260.8
27.5°	4454.5	4498.9	4370.0	4221.1	4172.2	4241.1	4338.9	4567.8	4374.4	4294.4	3434.2
30°	5141.3	5123.5	4954.6	4741.2	4530.0	4505.6	4538.9	4725.6	4645.6	4570.0	3627.6
32.5°	5705.9	5739.2	5561.4	5301.3	4985.7	4836.8	4801.2	4914.6	4934.6	4885.7	3856.5
35°	6286.0	6321.6	6148.2	5859.3	5483.6	5234.7	5132.4	5148.0	5292.4	5230.2	4096.6
37.5°	6806.2	6837.3	6666.1	6370.5	5994.8	5690.3	5543.6	5423.6	5639.2	5583.6	4350.0
40°	7201.8	7206.3	7090.7	6826.2	6470.5	6154.9	5988.2	5752.6	6006.0	5968.2	4614.5
42.5°	7481.9	7490.8	7406.3	7179.6	6850.6	6557.2	6421.6	6141.5	6428.3	6394.9	4921.2
45°	7613.0	7628.6	7619.7	7410.8	7137.4	6884.0	6839.5	6555.0	6890.6	6859.5	5274.7
47.5°	7488.6	7488.6	7601.9	7573.0	7321.8	7152.9	7204.0	6986.2	7393.0	7364.1	5634.8
50°	6970.6	6977.3	7208.5	7539.7	7393.0	7355.2	7515.2	7408.5	7848.6	7866.4	6066.0
52.5°	5610.3	5599.2	6379.4	7015.1	7344.1	7446.3	7802.0	7839.8	8395.4	8448.8	6495.0
55°	4192.2	4185.5	4932.4	6086.0	7001.8	7399.6	7962.0	8224.3	8862.2	8895.6	6815.1
57.5°	3318.6	3300.8	3712.0	4905.7	6228.2	7190.7	7968.7	8297.6	9122.3	9180.1	7126.2
60°	2551.8	2536.2	2842.9	3649.8	5132.4	6635.0	7777.5	8302.1	9373.5	9475.7	7544.1
62.5°	1824.9	1842.7	2078.3	2618.4	3947.7	5850.4	7528.6	8364.3	9820.3	9935.8	8137.6
65°	1231.4	1222.5	1418.1	1782.7	2807.4	4794.5	7146.2	8495.5	10624.9	10827.2	8848.9
67.5°	855.8	862.4	951.4	1160.3	1782.7	3680.9	6510.5	8568.8	11456.2	11614.0	9346.8
70°	617.9	626.8	675.7	780.2	1089.2	2496.2	5503.6	8233.2	11680.7	11818.5	9000.0
72.5°	406.8	424.6	497.9	553.5	695.7	1562.6	4054.4	7092.9	10713.8	10816.1	7550.8
75°	220.1	224.5	320.1	413.4	495.7	973.6	2418.4	4783.4	8015.4	7982.0	4979.0
77.5°	171.2	177.8	197.8	295.6	333.4	535.7	955.8	2160.5	3796.5	3694.3	1698.2
80°	104.5	108.9	137.8	175.6	233.4	311.2	280.1	586.8	771.3	722.4	249.0
82.5°	62.2	66.7	82.2	146.7	184.5	146.7	97.8	142.3	144.5	142.3	62.2
85°	11.1	11.1	57.8	102.2	97.8	42.2	57.8	46.7	42.2	44.5	13.3
87.5°	0.0	0.0	22.2	31.1	44.5	15.6	22.2	11.1	11.1	11.1	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P399147
 CATALOG NUMBER: ARCH-L-PA3-100-750-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1	1787.1
2.5°	1802.7	1727.1	1571.5	1435.9	1300.3	1200.3	1124.7	1046.9	1020.3	986.9	969.1
5°	1833.8	1684.9	1375.9	1129.2	920.2	760.2	657.9	595.7	555.7	526.8	520.1
7.5°	1880.5	1651.5	1218.1	884.7	655.7	495.7	411.2	369.0	346.8	333.4	329.0
10°	1936.0	1622.6	1062.5	689.1	462.3	349.0	302.3	284.5	275.6	271.2	269.0
12.5°	2013.8	1611.5	931.3	531.2	349.0	286.7	262.3	251.2	244.5	237.8	235.6
15°	2116.1	1616.0	811.3	411.2	289.0	255.6	235.6	224.5	215.6	208.9	208.9
17.5°	2222.8	1622.6	693.5	333.4	262.3	233.4	211.2	195.6	188.9	182.3	180.0
20°	2322.8	1620.4	580.1	284.5	237.8	208.9	186.7	171.2	160.0	153.4	153.4
22.5°	2418.4	1607.1	473.5	255.6	217.8	184.5	160.0	144.5	135.6	128.9	128.9
25°	2520.6	1580.4	386.8	233.4	193.4	162.3	137.8	122.3	115.6	108.9	108.9
27.5°	2600.7	1535.9	315.6	213.4	171.2	140.0	117.8	104.5	97.8	93.4	93.4
30°	2687.3	1471.5	262.3	191.2	148.9	120.0	100.0	88.9	82.2	80.0	80.0
32.5°	2782.9	1400.4	224.5	168.9	126.7	102.2	84.5	77.8	71.1	68.9	68.9
35°	2894.1	1338.1	202.3	146.7	111.1	86.7	73.4	66.7	62.2	62.2	62.2
37.5°	3020.8	1273.7	182.3	128.9	95.6	73.4	62.2	60.0	57.8	55.6	55.6
40°	3158.6	1204.7	164.5	113.4	82.2	62.2	53.3	53.3	51.1	51.1	51.1
42.5°	3314.2	1144.7	148.9	100.0	71.1	53.3	46.7	46.7	44.5	44.5	44.5
45°	3483.1	1089.2	135.6	88.9	62.2	46.7	42.2	40.0	37.8	37.8	37.8
47.5°	3683.2	1058.0	124.5	77.8	53.3	40.0	35.6	33.3	31.1	28.9	28.9
50°	3938.8	1071.4	113.4	64.5	46.7	33.3	28.9	26.7	24.5	22.2	22.2
52.5°	4141.0	1064.7	97.8	55.6	37.8	26.7	22.2	20.0	17.8	15.6	15.6
55°	4287.7	1038.0	84.5	46.7	28.9	22.2	17.8	13.3	11.1	11.1	11.1
57.5°	4432.2	1011.4	71.1	37.8	22.2	15.6	11.1	8.9	8.9	8.9	8.9
60°	4656.7	973.6	62.2	31.1	17.8	11.1	6.7	6.7	4.4	4.4	4.4
62.5°	4930.1	926.9	51.1	26.7	13.3	8.9	4.4	4.4	0.0	0.0	0.0
65°	5230.2	844.7	42.2	20.0	11.1	6.7	4.4	0.0	0.0	0.0	0.0
67.5°	5161.3	677.9	35.6	13.3	8.9	4.4	2.2	0.0	0.0	0.0	0.0
70°	4565.6	457.9	28.9	11.1	6.7	4.4	2.2	0.0	0.0	0.0	0.0
72.5°	3576.5	271.2	20.0	8.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	2289.5	135.6	13.3	6.7	4.4	2.2	0.0	0.0	0.0	0.0	0.0
77.5°	766.9	66.7	8.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	108.9	22.2	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.5	8.9	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.9	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	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)