

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: P399444

Luminaire Tested: **ARCH-L-PA3-140-760-U-T2R-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399444
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-PA3-140-760-U-T2R-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5700K, 620mA 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: 17937 lumens
Efficiency: N/A
Efficacy: 125.4 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

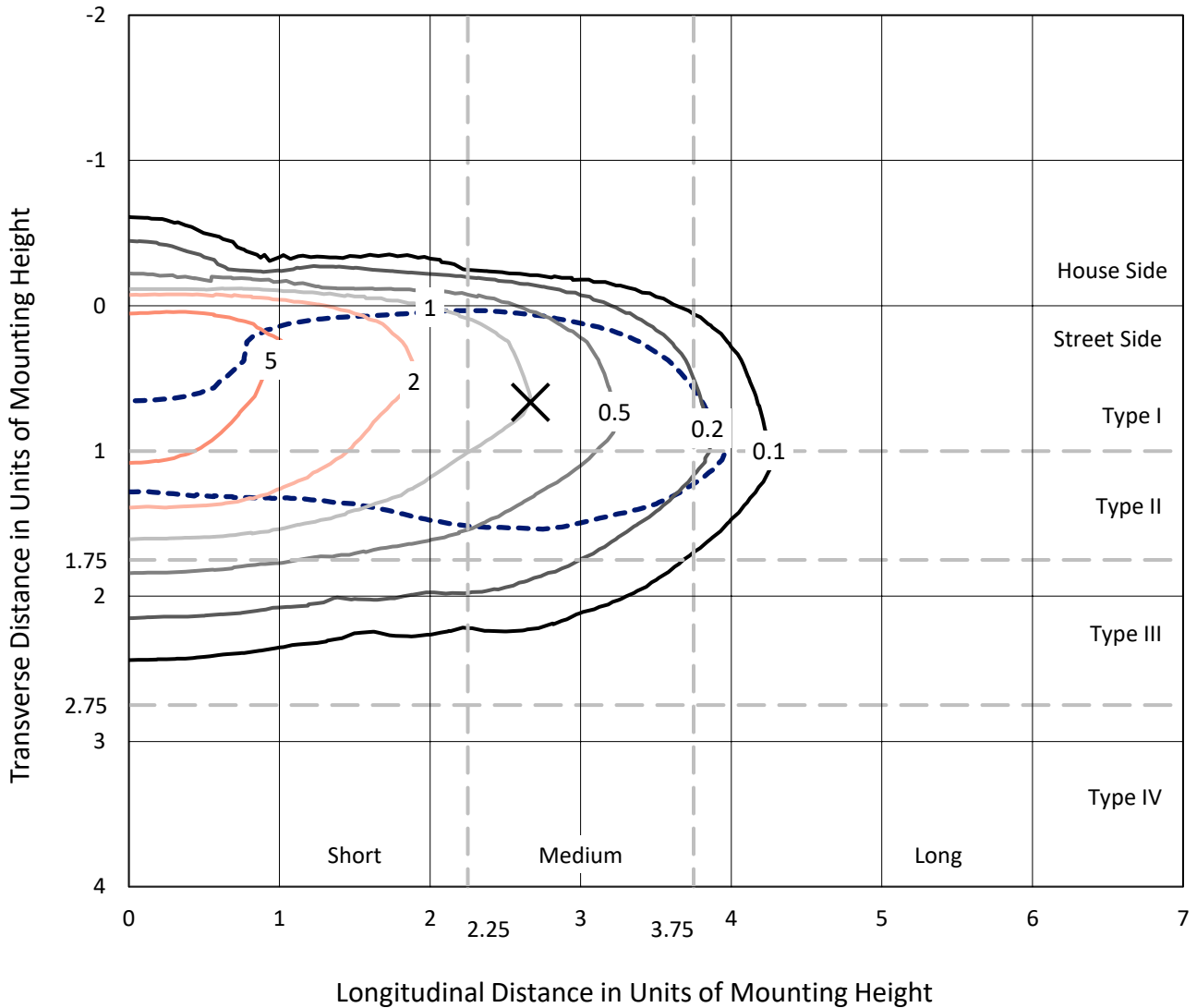
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

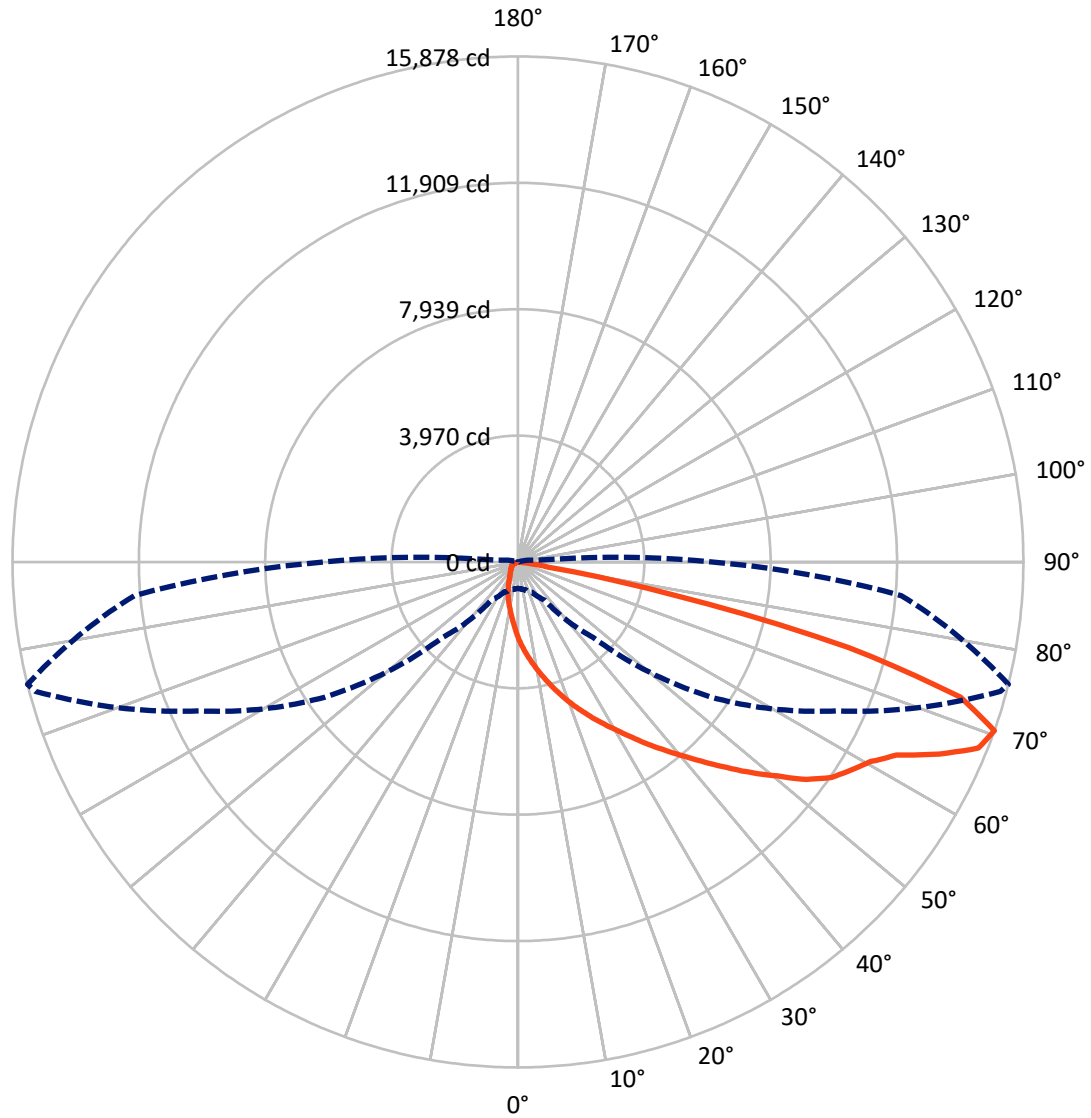
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	846.0	0.0	846.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	17091.0	0.0	17091.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	17937.0	0.0	17937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.2	1.3
10°-20°	730.0	4.1
20°-30°	1359.6	7.6
30°-40°	2404.8	13.4
40°-50°	3677.5	20.5
50°-60°	4169.4	23.2
60°-70°	3574.2	19.9
70°-80°	1731.1	9.7
80°-90°	64.2	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°	17937.0	100.0
0°-180°	17937.0	100.0

Coefficient of Utilization

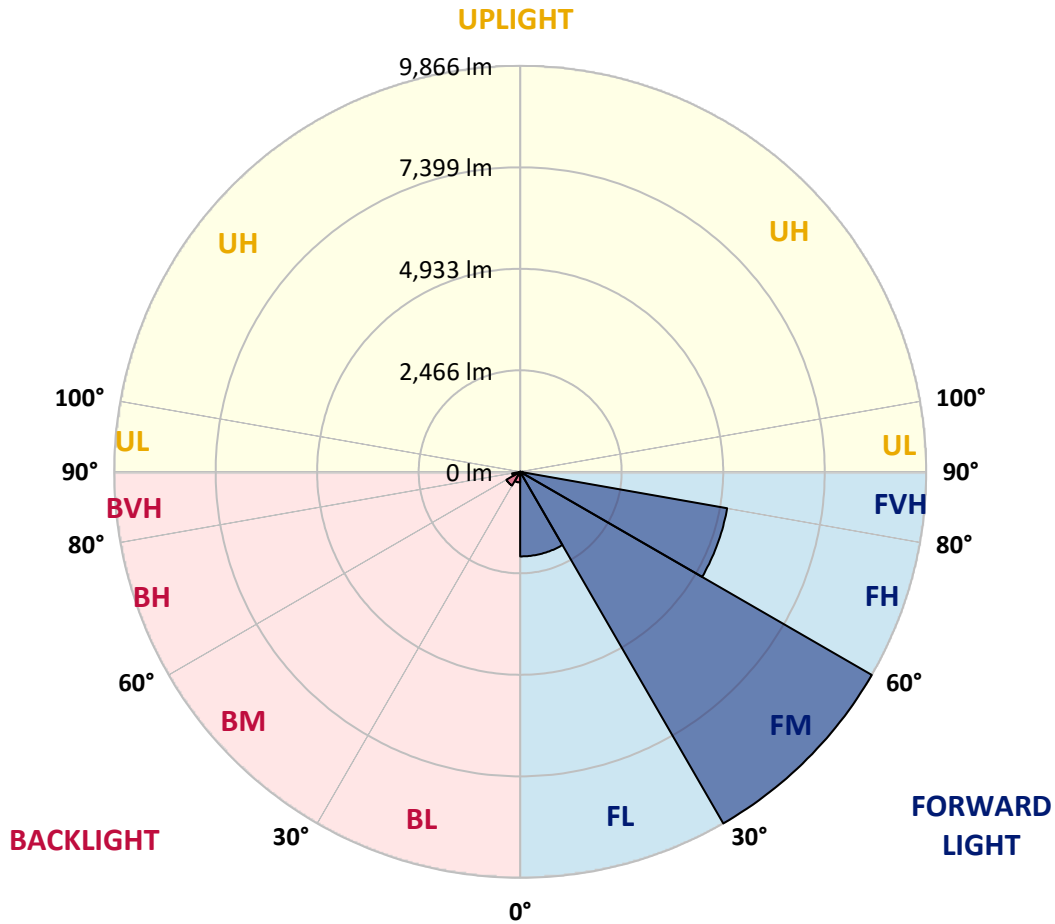


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2056.3	11.5			
FM (30°-60°)	9865.5	55.0			
FH (60°-80°)	5106.1	28.5			G3/7500
FVH (80°-90°)	63.1	0.4			G1/100
BL (0°-30°)	259.5	1.4	B1/500		
BM (30°-60°)	386.2	2.2	B1/1000		
BH (60°-80°)	199.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2401.0	2401.0	2401.0	2401.0	2401.0	2401.0	2401.0	2401.0	2401.0	2401.0	2401.0
2.5°	3281.9	3264.0	3246.1	3177.4	3114.7	3058.0	2950.5	2810.1	2684.7	2657.8	2511.5
5°	3855.3	3834.4	3807.5	3738.8	3658.2	3562.7	3404.4	3189.4	2968.4	2920.6	2648.8
7.5°	4243.5	4225.6	4186.8	4153.9	4073.3	3980.7	3804.5	3553.7	3249.1	3189.4	2807.1
10°	4509.3	4497.4	4491.4	4464.5	4404.8	4330.1	4153.9	3891.1	3532.8	3464.1	2974.4
12.5°	4604.9	4604.9	4634.7	4679.5	4688.5	4664.6	4503.3	4240.5	3831.4	3759.7	3171.4
15°	4476.5	4491.4	4557.1	4700.4	4849.7	4948.3	4846.8	4601.9	4159.9	4082.3	3404.4
17.5°	4440.6	4455.6	4500.3	4625.8	4825.9	5088.6	5139.4	4951.3	4470.5	4404.8	3643.3
20°	4542.2	4557.1	4595.9	4703.4	4855.7	5121.5	5333.5	5288.7	4799.0	4730.3	3885.2
22.5°	4784.0	4793.0	4793.0	4876.6	5011.0	5208.1	5456.0	5608.3	5136.4	5061.8	4124.1
25°	5303.7	5285.7	5214.1	5172.3	5258.9	5420.1	5611.3	5889.0	5512.7	5411.2	4380.9
27.5°	5984.5	6044.3	5871.1	5671.0	5605.3	5697.9	5829.3	6136.8	5877.0	5769.5	4613.8
30°	6907.3	6883.4	6656.5	6369.8	6086.1	6053.2	6098.0	6348.9	6241.4	6139.8	4873.6
32.5°	7665.8	7710.6	7471.7	7122.3	6698.3	6498.2	6450.4	6602.7	6629.6	6563.9	5181.2
35°	8445.2	8493.0	8260.1	7871.9	7367.2	7032.7	6895.4	6916.3	7110.4	7026.8	5503.7
37.5°	9144.0	9185.8	8955.9	8558.7	8054.0	7644.9	7447.8	7286.6	7576.2	7501.6	5844.2
40°	9675.6	9681.6	9526.3	9170.9	8693.1	8269.1	8045.1	7728.5	8069.0	8018.2	6199.6
42.5°	10051.9	10063.8	9950.3	9645.7	9203.8	8809.6	8627.4	8251.1	8636.4	8591.6	6611.7
45°	10228.1	10249.0	10237.0	9956.3	9589.0	9248.6	9188.8	8806.6	9257.5	9215.7	7086.5
47.5°	10060.8	10060.8	10213.1	10174.3	9836.9	9609.9	9678.6	9385.9	9932.4	9893.6	7570.3
50°	9365.0	9374.0	9684.6	10129.5	9932.4	9881.7	10096.7	9953.3	10544.6	10568.5	8149.6
52.5°	7537.4	7522.5	8570.7	9424.8	9866.7	10004.1	10481.9	10532.7	11279.2	11350.9	8726.0
55°	5632.2	5623.2	6626.6	8176.5	9406.8	9941.4	10696.9	11049.3	11906.4	11951.2	9156.0
57.5°	4458.5	4434.7	4987.1	6590.8	8367.6	9660.7	10705.9	11147.8	12255.8	12333.4	9574.1
60°	3428.3	3407.4	3819.5	4903.5	6895.4	8914.1	10449.1	11153.8	12593.2	12730.6	10135.5
62.5°	2451.7	2475.6	2792.2	3517.9	5303.7	7859.9	10114.6	11237.4	13193.5	13348.7	10932.8
65°	1654.4	1642.5	1905.3	2395.0	3771.7	6441.4	9600.9	11413.6	14274.5	14546.3	11888.4
67.5°	1149.7	1158.7	1278.1	1558.8	2395.0	4945.3	8746.9	11512.2	15391.4	15603.4	12557.4
70°	830.2	842.1	907.8	1048.2	1463.3	3353.6	7394.1	11061.2	15693.0	15878.1	12091.5
72.5°	546.5	570.4	668.9	743.6	934.7	2099.4	5447.0	9529.3	14394.0	14531.3	10144.5
75°	295.6	301.6	430.0	555.5	665.9	1308.0	3249.1	6426.5	10768.6	10723.8	6689.3
77.5°	229.9	238.9	265.8	397.2	447.9	719.7	1284.1	2902.7	5100.6	4963.2	2281.5
80°	140.4	146.3	185.2	235.9	313.6	418.1	376.3	788.4	1036.2	970.5	334.5
82.5°	83.6	89.6	110.5	197.1	247.9	197.1	131.4	191.1	194.1	191.1	83.6
85°	14.9	14.9	77.6	137.4	131.4	56.7	77.6	62.7	56.7	59.7	17.9
87.5°	0.0	0.0	29.9	41.8	59.7	20.9	29.9	14.9	14.9	14.9	9.0
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°	2401.0	2401.0	2401.0	2401.0	2401.0	2401.0	2401.0	2401.0	2401.0	2401.0	2401.0
2.5°	2421.9	2320.4	2111.3	1929.1	1747.0	1612.6	1511.1	1406.5	1370.7	1325.9	1302.0
5°	2463.7	2263.6	1848.5	1517.0	1236.3	1021.3	883.9	800.3	746.6	707.8	698.8
7.5°	2526.4	2218.8	1636.5	1188.5	881.0	665.9	552.5	495.7	465.9	447.9	442.0
10°	2601.1	2180.0	1427.4	925.8	621.1	468.8	406.1	382.2	370.3	364.3	361.3
12.5°	2705.6	2165.1	1251.3	713.7	468.8	385.2	352.4	337.5	328.5	319.5	316.5
15°	2843.0	2171.0	1090.0	552.5	388.2	343.4	316.5	301.6	289.7	280.7	280.7
17.5°	2986.3	2180.0	931.7	447.9	352.4	313.6	283.7	262.8	253.8	244.9	241.9
20°	3120.7	2177.0	779.4	382.2	319.5	280.7	250.8	229.9	215.0	206.1	206.1
22.5°	3249.1	2159.1	636.1	343.4	292.7	247.9	215.0	194.1	182.2	173.2	173.2
25°	3386.5	2123.3	519.6	313.6	259.8	218.0	185.2	164.2	155.3	146.3	146.3
27.5°	3494.0	2063.5	424.1	286.7	229.9	188.1	158.3	140.4	131.4	125.4	125.4
30°	3610.4	1976.9	352.4	256.8	200.1	161.3	134.4	119.5	110.5	107.5	107.5
32.5°	3738.8	1881.4	301.6	227.0	170.2	137.4	113.5	104.5	95.6	92.6	92.6
35°	3888.2	1797.8	271.8	197.1	149.3	116.5	98.5	89.6	83.6	83.6	83.6
37.5°	4058.4	1711.1	244.9	173.2	128.4	98.5	83.6	80.6	77.6	74.7	74.7
40°	4243.5	1618.6	221.0	152.3	110.5	83.6	71.7	71.7	68.7	68.7	68.7
42.5°	4452.6	1537.9	200.1	134.4	95.6	71.7	62.7	62.7	59.7	59.7	59.7
45°	4679.5	1463.3	182.2	119.5	83.6	62.7	56.7	53.8	50.8	50.8	50.8
47.5°	4948.3	1421.5	167.2	104.5	71.7	53.8	47.8	44.8	41.8	38.8	38.8
50°	5291.7	1439.4	152.3	86.6	62.7	44.8	38.8	35.8	32.8	29.9	29.9
52.5°	5563.5	1430.4	131.4	74.7	50.8	35.8	29.9	26.9	23.9	20.9	20.9
55°	5760.6	1394.6	113.5	62.7	38.8	29.9	23.9	17.9	14.9	14.9	14.9
57.5°	5954.7	1358.8	95.6	50.8	29.9	20.9	14.9	11.9	11.9	11.9	11.9
60°	6256.3	1308.0	83.6	41.8	23.9	14.9	9.0	9.0	6.0	6.0	6.0
62.5°	6623.6	1245.3	68.7	35.8	17.9	11.9	6.0	6.0	0.0	0.0	0.0
65°	7026.8	1134.8	56.7	26.9	14.9	9.0	6.0	0.0	0.0	0.0	0.0
67.5°	6934.2	910.8	47.8	17.9	11.9	6.0	3.0	0.0	0.0	0.0	0.0
70°	6133.9	615.2	38.8	14.9	9.0	6.0	3.0	0.0	0.0	0.0	0.0
72.5°	4805.0	364.3	26.9	11.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0
75°	3075.9	182.2	17.9	9.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	1030.3	89.6	11.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	146.3	29.9	6.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.8	11.9	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.9	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	3.0	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)