

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: P348681

Luminaire Tested: **ARCH-N-PA1-19-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348681
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-19-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2393 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 19
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

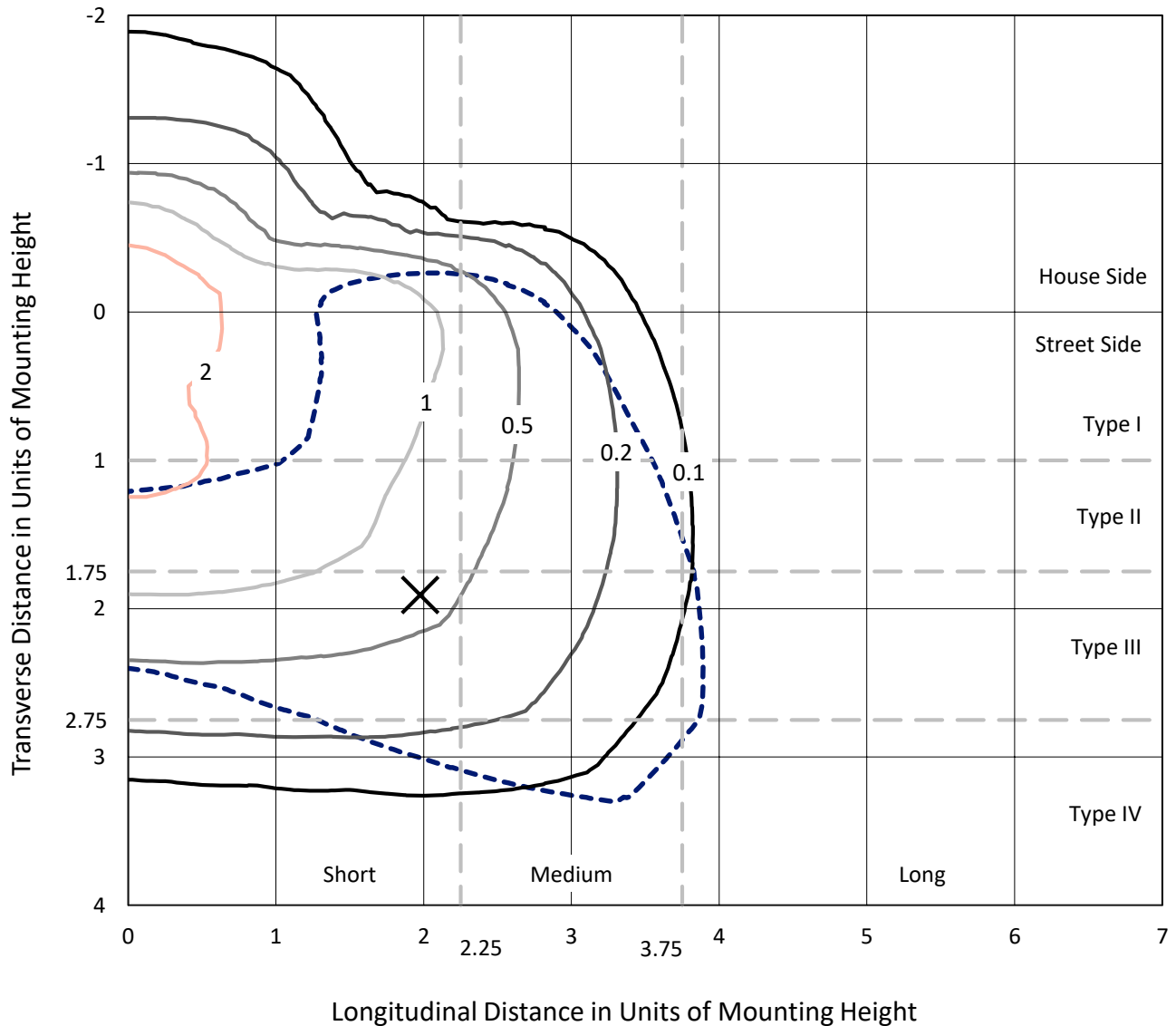


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

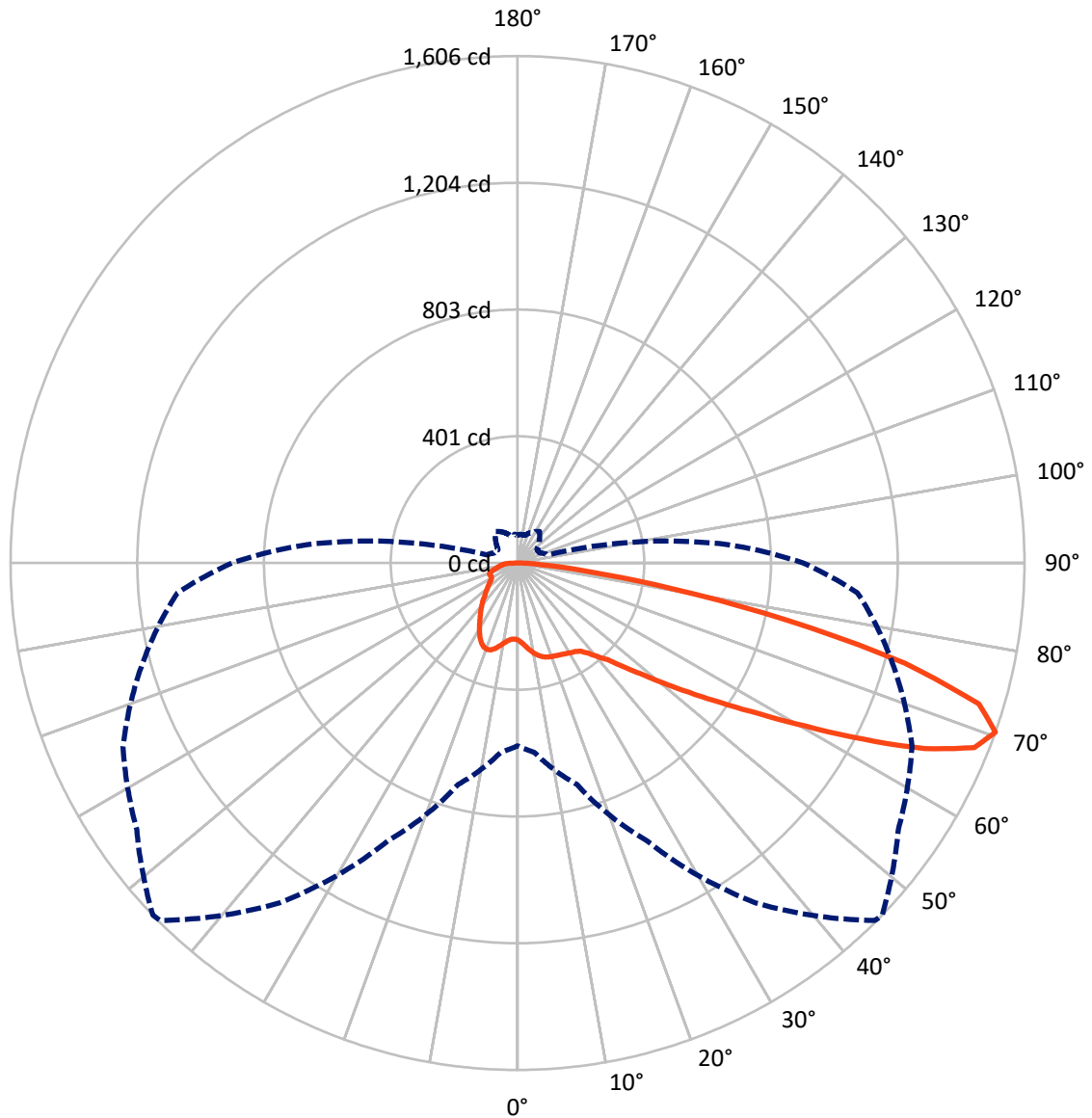


Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	548.5	0.0	548.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	1844.5	0.0	1844.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	2393.0	0.0	2393.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	1.0
10°-20°	82.8	3.5
20°-30°	138.1	5.8
30°-40°	195.9	8.2
40°-50°	288.2	12.0
50°-60°	488.1	20.4
60°-70°	692.8	29.0
70°-80°	420.9	17.6
80°-90°	61.4	2.6
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°	2393.0	100.0
0°-180°	2393.0	100.0



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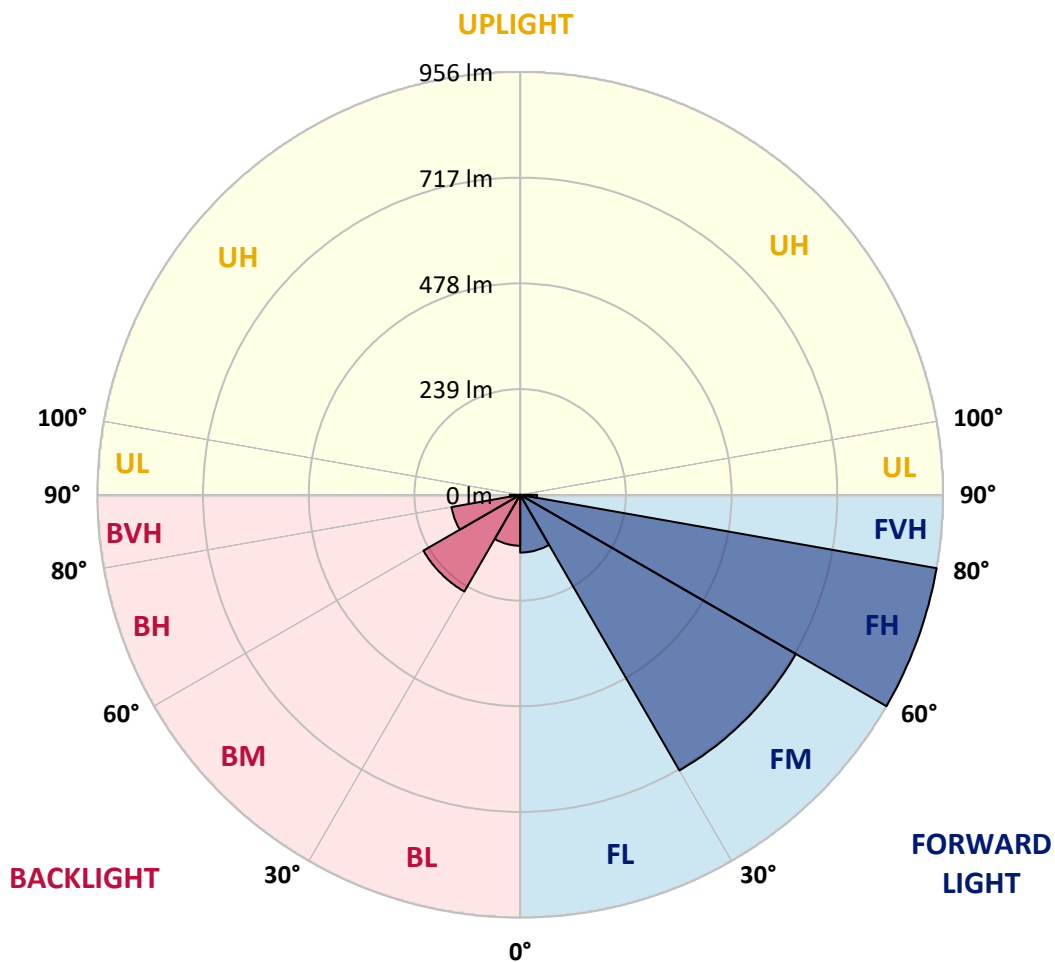
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	130.6	5.5			
FM	(30°-60°)	719.7	30.1			
FH	(60°-80°)	956.0	39.9			G1/1800
FVH	(80°-90°)	38.3	1.6			G1/100
BL	(0°-30°)	115.2	4.8	B1/500		
BM	(30°-60°)	252.5	10.6	B1/1000		
BH	(60°-80°)	157.7	6.6	B1/500		G1/500
BVH	(80°-90°)	23.2	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	243.8	243.8	243.8	243.8	243.8	243.8	243.8	243.8	243.8	243.8	243.8
2.5°	256.0	256.2	256.5	255.7	253.4	252.7	252.5	250.1	248.5	246.3	244.3
5°	276.5	276.6	276.1	273.9	268.8	265.0	264.7	259.3	254.4	249.1	245.2
7.5°	297.9	298.1	296.5	292.2	285.1	278.5	278.1	270.7	263.3	255.3	249.5
10°	316.8	315.8	313.2	307.2	298.8	290.7	290.4	282.7	274.1	264.5	256.7
12.5°	329.4	328.6	325.3	317.9	308.7	301.3	300.6	293.5	285.2	274.7	265.3
15°	336.3	336.9	332.5	324.1	315.1	308.9	308.3	303.3	295.8	285.2	274.4
17.5°	337.2	337.7	333.5	325.2	317.8	313.6	313.3	310.0	304.6	294.4	283.1
20°	332.0	332.3	328.8	322.0	317.2	315.9	315.8	314.3	310.3	301.3	290.3
22.5°	324.4	324.6	322.1	317.2	315.5	317.6	318.2	317.6	314.7	306.3	296.0
25°	322.5	322.3	319.7	314.7	316.1	320.5	321.2	321.4	319.5	312.1	303.2
27.5°	331.6	331.0	326.0	318.0	318.9	324.1	325.1	327.5	326.3	319.8	311.4
30°	357.9	356.9	346.7	330.4	326.0	328.7	330.0	333.7	334.0	328.6	322.3
32.5°	402.3	401.0	382.7	353.7	338.1	333.4	334.5	340.2	343.2	339.0	332.2
35°	458.4	457.0	432.9	393.3	358.2	342.3	343.1	347.6	353.7	347.8	338.8
37.5°	516.8	513.5	490.3	439.8	390.2	361.4	361.4	362.0	364.8	352.6	346.5
40°	575.0	571.6	550.7	494.5	431.7	391.5	389.6	376.9	374.6	364.0	362.0
42.5°	629.0	628.0	615.7	556.3	480.3	421.0	418.4	396.9	397.4	390.8	390.9
45°	686.5	686.5	676.4	618.7	537.0	468.5	465.9	434.2	439.1	436.1	443.4
47.5°	733.4	734.9	733.5	683.7	602.9	528.9	524.1	486.0	499.7	510.1	531.3
50°	781.4	783.6	783.9	755.1	682.6	600.6	595.2	554.7	585.4	615.2	656.9
52.5°	850.9	856.0	835.5	826.2	780.2	685.8	680.5	643.0	694.3	736.1	808.0
55°	915.3	910.8	896.2	901.9	884.7	782.7	778.7	745.9	815.7	870.0	963.3
57.5°	950.2	949.9	964.6	989.2	997.4	902.3	899.0	867.0	952.5	993.4	1109.2
60°	991.2	991.7	1028.3	1084.0	1117.8	1051.2	1049.7	1025.5	1085.4	1108.5	1223.6
62.5°	996.9	1007.2	1070.1	1166.1	1230.5	1225.1	1228.4	1168.2	1204.3	1200.4	1309.0
65°	931.0	944.6	1058.4	1190.9	1342.5	1415.4	1418.4	1311.8	1298.1	1278.9	1339.5
67.5°	795.9	816.0	939.7	1136.9	1379.4	1556.0	1560.3	1423.1	1375.9	1305.6	1266.0
70°	579.2	601.5	726.0	971.0	1313.6	1601.0	1605.8	1472.3	1378.9	1229.8	1080.8
72.5°	349.9	367.4	470.0	714.9	1108.7	1519.1	1527.7	1409.9	1258.9	1041.7	798.1
75°	153.6	165.1	227.3	411.9	793.7	1256.8	1267.6	1206.8	1022.9	757.0	471.7
77.5°	65.4	68.7	93.2	178.9	448.7	858.8	873.6	881.8	694.0	411.9	199.3
80°	40.8	42.1	52.7	81.0	210.0	482.4	498.2	518.8	344.6	151.4	69.6
82.5°	24.8	26.3	35.1	49.0	109.3	218.7	226.3	240.8	133.7	65.4	36.0
85°	14.9	16.0	21.5	31.0	62.2	86.0	85.9	95.0	63.0	42.1	19.0
87.5°	7.1	7.9	11.5	16.1	31.4	32.3	30.2	34.2	38.2	27.6	9.6
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°	243.8	243.8	243.8	243.8	243.8	243.8	243.8	243.8	243.8	243.8	243.8
2.5°	243.6	243.3	242.2	241.4	241.3	240.8	240.4	240.6	240.9	241.0	241.0
5°	243.6	242.7	241.3	240.7	241.4	242.4	243.6	245.3	246.3	247.0	247.5
7.5°	247.5	245.8	244.2	243.9	245.4	248.0	250.8	254.2	256.6	258.2	258.5
10°	254.0	251.9	250.4	250.7	253.3	257.1	261.0	265.4	269.0	271.2	271.4
12.5°	261.6	259.5	258.0	259.4	263.8	268.4	272.5	276.3	279.6	281.8	281.8
15°	270.3	268.8	267.1	270.3	276.1	280.2	282.0	283.8	285.6	287.3	287.0
17.5°	278.6	277.2	276.3	280.1	286.2	288.1	287.0	285.6	285.6	286.5	286.6
20°	285.8	284.6	285.2	288.8	292.0	290.1	285.8	281.4	279.6	280.1	280.6
22.5°	292.1	291.5	293.3	295.0	292.7	285.8	277.9	272.0	269.8	269.6	269.8
25°	299.5	299.4	301.5	298.4	288.3	275.6	265.0	259.2	258.0	259.0	260.6
27.5°	308.7	309.6	310.6	299.2	279.3	260.1	249.4	245.4	246.6	249.0	250.5
30°	320.4	322.8	320.5	297.2	266.3	242.4	232.2	231.0	234.4	237.7	239.4
32.5°	331.8	335.6	330.0	291.9	249.6	223.7	215.7	215.4	219.5	222.8	225.0
35°	340.9	348.5	337.2	281.3	230.3	206.4	200.6	198.3	199.8	203.7	206.3
37.5°	352.9	365.6	342.1	265.2	209.3	192.1	185.3	180.2	178.9	180.5	181.8
40°	374.7	391.5	344.4	242.7	188.8	177.9	171.0	163.5	158.4	154.6	154.7
42.5°	410.5	425.4	342.9	215.3	169.9	164.0	156.2	147.6	139.2	130.7	130.0
45°	468.4	475.6	338.5	186.3	153.3	149.4	142.1	133.5	122.4	112.7	111.8
47.5°	561.2	545.3	331.6	161.0	138.6	137.0	130.3	120.4	108.6	100.8	100.2
50°	687.7	645.7	328.2	140.9	125.7	126.2	120.7	110.2	99.1	93.4	92.7
52.5°	839.1	762.8	334.7	125.3	115.3	117.0	112.9	103.1	93.8	89.3	88.6
55°	996.1	884.0	341.7	114.0	105.5	108.8	107.4	99.3	90.9	86.7	86.2
57.5°	1130.5	974.5	327.7	104.8	96.7	102.0	103.2	97.0	89.4	85.7	85.0
60°	1215.1	1010.9	291.2	96.2	89.8	96.5	100.7	96.3	90.0	89.7	89.2
62.5°	1255.2	1007.7	236.4	89.4	85.4	94.1	102.5	100.0	96.6	99.5	99.7
65°	1237.2	959.6	176.1	84.9	82.3	95.0	107.9	107.0	98.4	101.4	101.8
67.5°	1118.6	844.7	130.4	81.0	78.9	97.5	117.8	109.2	94.8	96.9	95.6
70°	904.1	669.7	100.6	76.6	75.3	97.2	122.2	107.9	90.7	91.2	87.7
72.5°	623.5	456.6	81.8	72.5	70.3	88.6	119.1	104.4	87.4	83.6	78.9
75°	339.0	245.1	69.5	68.2	61.3	77.8	113.3	102.0	84.4	79.4	76.7
77.5°	133.4	101.7	60.4	62.4	53.6	68.7	107.0	97.3	80.2	73.6	72.3
80°	54.5	51.9	50.0	54.0	46.1	60.1	99.3	91.8	75.2	68.3	65.7
82.5°	30.9	32.3	38.9	42.6	37.4	55.4	95.6	87.4	69.2	61.2	58.1
85°	15.8	18.9	27.1	30.5	27.5	47.1	88.0	76.5	55.5	46.8	47.1
87.5°	7.6	10.6	17.1	19.2	17.9	34.1	65.8	55.4	43.2	34.2	33.2
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)