

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: P348680

Luminaire Tested: **ARCH-N-PA1-10-830-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348680
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-PA1-10-830-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1784 lumens
Efficiency: N/A
Efficacy: 127.4 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): 14
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

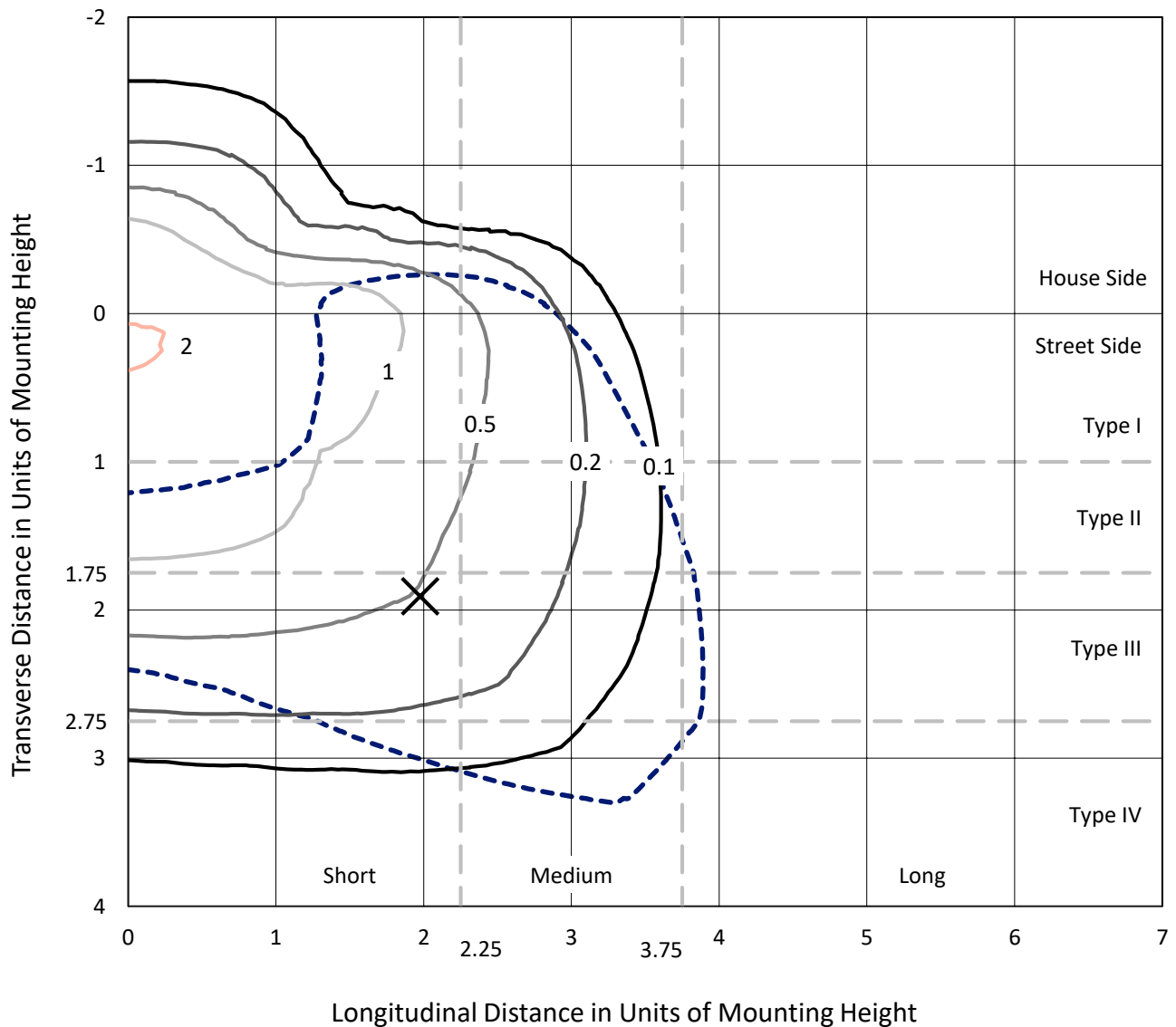


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Iso-Footcandle Lines of Horizontal Illumination

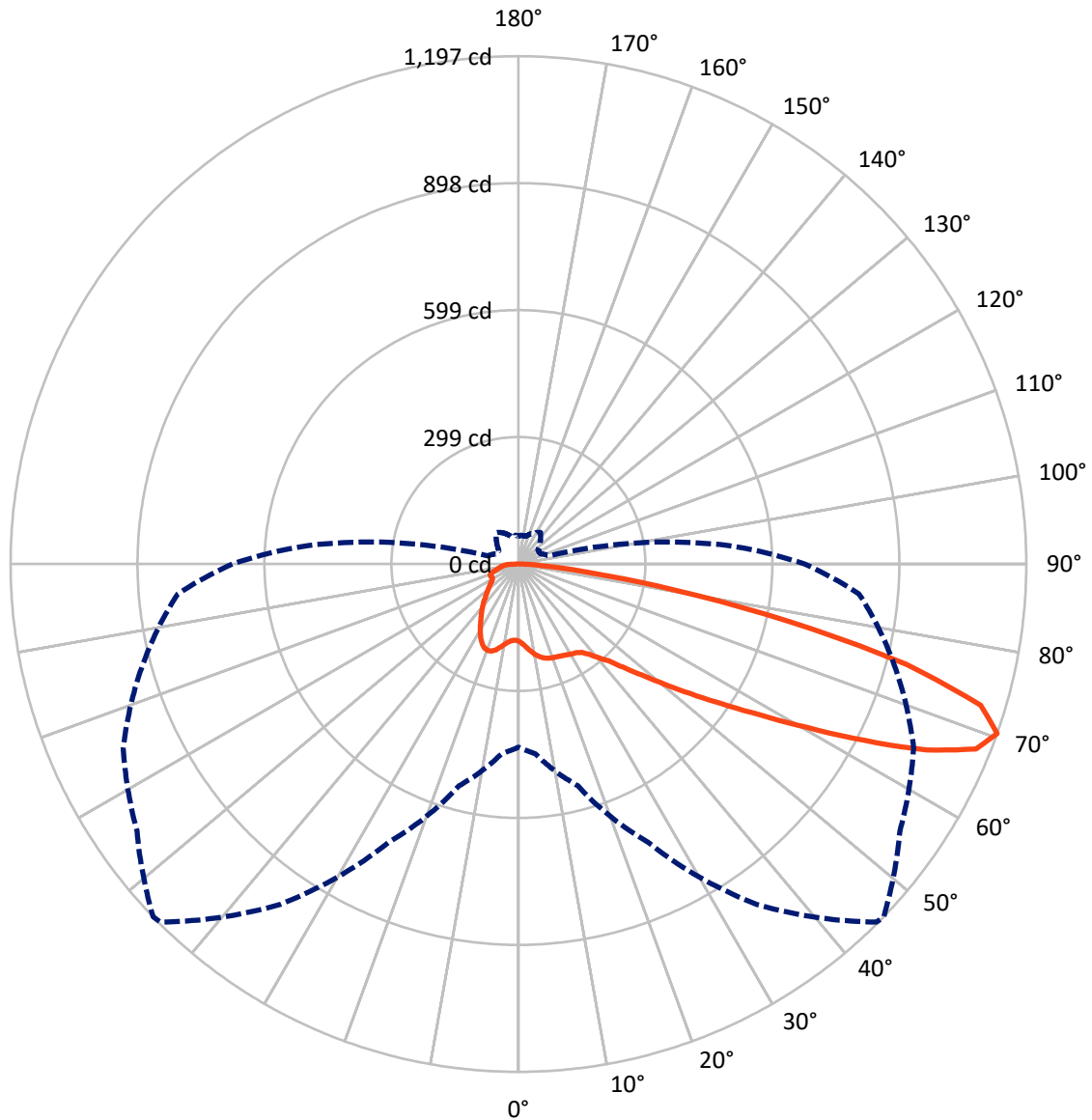
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.3 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	408.9	0.0	408.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	1375.1	0.0	1375.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	1784.0	0.0	1784.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.5	1.0
10°-20°	61.7	3.5
20°-30°	102.9	5.8
30°-40°	146.1	8.2
40°-50°	214.9	12.0
50°-60°	363.9	20.4
60°-70°	516.5	29.0
70°-80°	313.8	17.6
80°-90°	45.8	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°	1784.0	100.0
0°-180°	1784.0	100.0

Coefficient of Utilization



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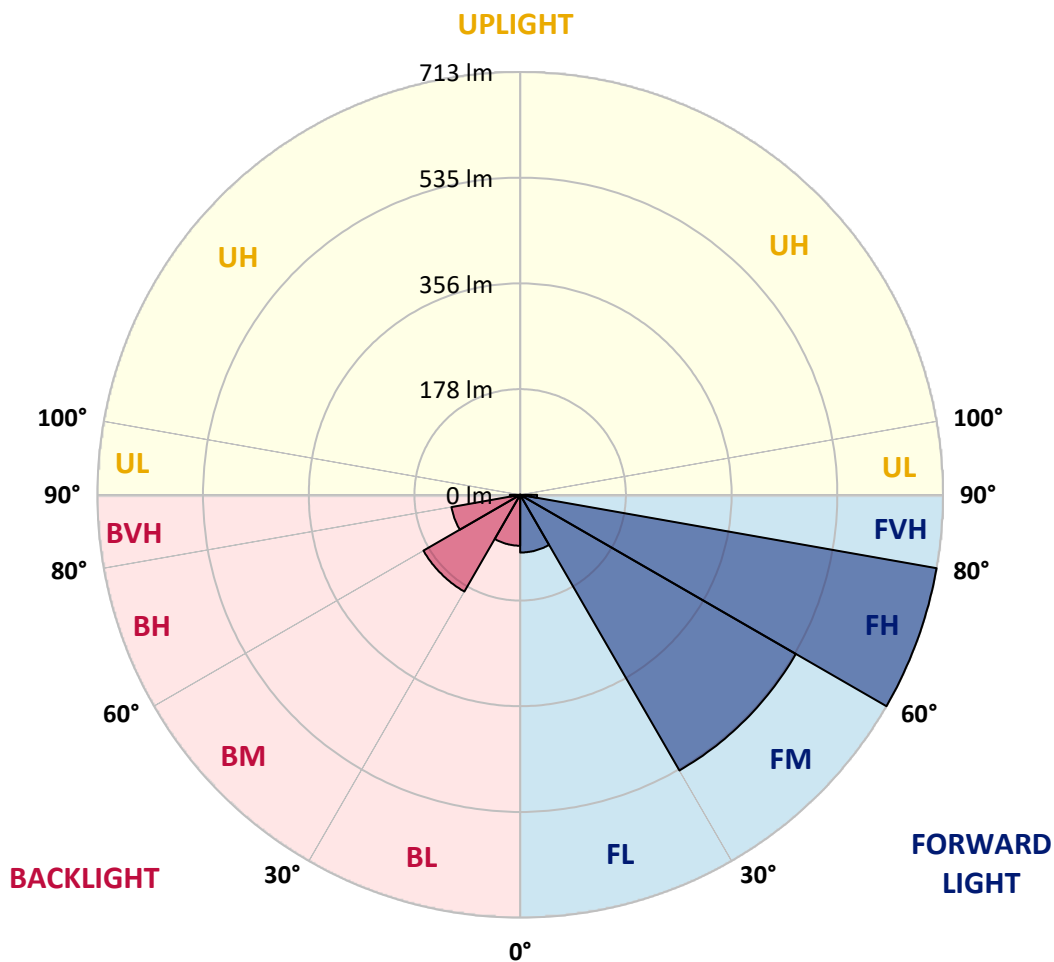
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	97.3	5.5			
FM	(30°-60°)	536.6	30.1			
FH	(60°-80°)	712.7	39.9			G1/1800
FVH	(80°-90°)	28.5	1.6			G1/100
BL	(0°-30°)	85.8	4.8	B0/110		
BM	(30°-60°)	188.2	10.6	B0/220		
BH	(60°-80°)	117.5	6.6	B1/500		G1/500
BVH	(80°-90°)	17.3	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°	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8
2.5°	190.9	191.0	191.2	190.6	188.9	188.4	188.2	186.5	185.3	183.6	182.1
5°	206.1	206.2	205.9	204.2	200.4	197.6	197.3	193.3	189.6	185.7	182.8
7.5°	222.0	222.2	221.1	217.8	212.5	207.6	207.3	201.8	196.3	190.4	186.0
10°	236.2	235.4	233.5	229.0	222.7	216.7	216.5	210.8	204.3	197.2	191.3
12.5°	245.6	244.9	242.5	237.0	230.1	224.6	224.1	218.8	212.6	204.8	197.8
15°	250.7	251.2	247.9	241.6	234.9	230.3	229.9	226.1	220.5	212.6	204.6
17.5°	251.4	251.8	248.6	242.4	236.9	233.8	233.6	231.1	227.1	219.5	211.1
20°	247.5	247.8	245.1	240.1	236.5	235.5	235.4	234.3	231.3	224.6	216.4
22.5°	241.8	242.0	240.1	236.5	235.2	236.8	237.2	236.8	234.6	228.3	220.6
25°	240.4	240.3	238.4	234.6	235.7	238.9	239.4	239.6	238.2	232.7	226.0
27.5°	247.2	246.8	243.1	237.1	237.7	241.6	242.4	244.2	243.2	238.4	232.1
30°	266.8	266.1	258.4	246.3	243.1	245.1	246.0	248.8	249.0	244.9	240.2
32.5°	299.9	299.0	285.3	263.7	252.0	248.5	249.4	253.6	255.9	252.8	247.7
35°	341.7	340.7	322.7	293.2	267.0	255.2	255.8	259.2	263.7	259.3	252.6
37.5°	385.3	382.8	365.5	327.9	290.9	269.4	269.4	269.9	272.0	262.8	258.3
40°	428.7	426.1	410.5	368.6	321.8	291.8	290.4	281.0	279.3	271.4	269.9
42.5°	468.9	468.2	459.0	414.7	358.1	313.9	311.9	295.9	296.2	291.3	291.4
45°	511.8	511.8	504.3	461.3	400.3	349.3	347.3	323.7	327.4	325.1	330.5
47.5°	546.8	547.9	546.9	509.7	449.5	394.3	390.7	362.3	372.5	380.3	396.1
50°	582.5	584.2	584.4	562.9	508.9	447.8	443.7	413.5	436.4	458.6	489.7
52.5°	634.3	638.2	622.9	616.0	581.7	511.3	507.3	479.4	517.6	548.8	602.3
55°	682.4	679.0	668.1	672.4	659.6	583.5	580.6	556.1	608.1	648.6	718.2
57.5°	708.4	708.2	719.1	737.5	743.6	672.7	670.2	646.4	710.1	740.6	826.9
60°	738.9	739.4	766.6	808.2	833.3	783.7	782.6	764.5	809.2	826.4	912.2
62.5°	743.2	750.9	797.8	869.3	917.3	913.4	915.8	870.9	897.8	894.9	975.9
65°	694.1	704.2	789.0	887.8	1000.8	1055.2	1057.4	977.9	967.8	953.5	998.6
67.5°	593.3	608.3	700.5	847.6	1028.4	1160.0	1163.2	1060.9	1025.8	973.3	943.8
70°	431.8	448.4	541.2	723.9	979.3	1193.5	1197.1	1097.6	1027.9	916.8	805.7
72.5°	260.8	273.9	350.4	532.9	826.5	1132.5	1138.9	1051.1	938.5	776.6	595.0
75°	114.5	123.1	169.4	307.1	591.7	937.0	945.0	899.7	762.6	564.4	351.7
77.5°	48.8	51.2	69.5	133.4	334.5	640.3	651.3	657.4	517.4	307.1	148.6
80°	30.4	31.4	39.3	60.4	156.5	359.6	371.4	386.8	256.9	112.9	51.9
82.5°	18.5	19.6	26.1	36.5	81.5	163.0	168.7	179.5	99.7	48.8	26.9
85°	11.1	11.9	16.0	23.1	46.4	64.1	64.0	70.8	46.9	31.4	14.2
87.5°	5.3	5.9	8.5	12.0	23.4	24.1	22.5	25.5	28.5	20.6	7.1
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°	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8	181.8
2.5°	181.6	181.4	180.6	180.0	179.9	179.5	179.2	179.4	179.6	179.7	179.7
5°	181.6	180.9	179.9	179.4	180.0	180.7	181.6	182.9	183.6	184.1	184.5
7.5°	184.5	183.2	182.1	181.8	182.9	184.9	186.9	189.5	191.3	192.5	192.7
10°	189.4	187.8	186.6	186.9	188.8	191.6	194.6	197.9	200.6	202.2	202.3
12.5°	195.0	193.5	192.4	193.4	196.7	200.1	203.1	206.0	208.4	210.1	210.1
15°	201.5	200.4	199.1	201.5	205.9	208.9	210.2	211.6	213.0	214.2	213.9
17.5°	207.7	206.7	206.0	208.8	213.4	214.8	213.9	212.9	212.9	213.6	213.7
20°	213.1	212.2	212.6	215.3	217.7	216.2	213.1	209.8	208.4	208.8	209.2
22.5°	217.8	217.3	218.6	219.9	218.2	213.1	207.2	202.8	201.1	201.0	201.1
25°	223.3	223.2	224.8	222.5	214.9	205.4	197.6	193.2	192.3	193.0	194.3
27.5°	230.1	230.8	231.6	223.1	208.2	193.9	185.9	182.9	183.8	185.6	186.8
30°	238.8	240.7	239.0	221.6	198.5	180.7	173.1	172.2	174.7	177.2	178.5
32.5°	247.3	250.2	246.0	217.6	186.1	166.7	160.8	160.6	163.6	166.1	167.8
35°	254.2	259.8	251.4	209.7	171.7	153.9	149.5	147.9	149.0	151.8	153.8
37.5°	263.1	272.5	255.0	197.7	156.1	143.2	138.2	134.4	133.4	134.6	135.5
40°	279.4	291.9	256.7	180.9	140.8	132.6	127.5	121.9	118.1	115.3	115.3
42.5°	306.0	317.1	255.6	160.5	126.7	122.2	116.4	110.0	103.8	97.4	97.0
45°	349.2	354.6	252.3	138.9	114.3	111.4	105.9	99.5	91.2	84.0	83.3
47.5°	418.4	406.5	247.2	120.0	103.4	102.1	97.1	89.7	81.0	75.2	74.7
50°	512.7	481.4	244.7	105.0	93.7	94.1	90.0	82.2	73.9	69.6	69.1
52.5°	625.5	568.6	249.5	93.4	86.0	87.2	84.2	76.9	69.9	66.5	66.1
55°	742.6	659.0	254.7	85.0	78.6	81.1	80.1	74.1	67.8	64.7	64.2
57.5°	842.8	726.5	244.3	78.1	72.1	76.0	76.9	72.3	66.7	63.9	63.4
60°	905.8	753.6	217.1	71.7	66.9	71.9	75.1	71.8	67.1	66.9	66.5
62.5°	935.8	751.3	176.3	66.7	63.7	70.1	76.4	74.5	72.0	74.2	74.4
65°	922.3	715.4	131.3	63.3	61.4	70.8	80.5	79.7	73.4	75.6	75.9
67.5°	833.9	629.7	97.2	60.4	58.8	72.7	87.8	81.4	70.6	72.2	71.2
70°	674.0	499.2	75.0	57.1	56.2	72.5	91.1	80.4	67.6	68.0	65.4
72.5°	464.8	340.4	61.0	54.0	52.4	66.1	88.8	77.8	65.1	62.3	58.9
75°	252.8	182.7	51.8	50.9	45.7	58.0	84.5	76.0	62.9	59.2	57.2
77.5°	99.5	75.8	45.0	46.5	40.0	51.2	79.7	72.5	59.8	54.9	53.9
80°	40.6	38.7	37.3	40.2	34.4	44.8	74.0	68.4	56.0	50.9	49.0
82.5°	23.0	24.1	29.0	31.7	27.9	41.3	71.2	65.1	51.6	45.6	43.3
85°	11.8	14.1	20.2	22.8	20.5	35.1	65.6	57.0	41.4	34.9	35.1
87.5°	5.7	7.9	12.8	14.3	13.3	25.4	49.0	41.3	32.2	25.5	24.7
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)