

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: P348925

Luminaire Tested: **ARCH-N-PA1-10-730-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1908-474-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-N-PA1-10-730-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2044 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

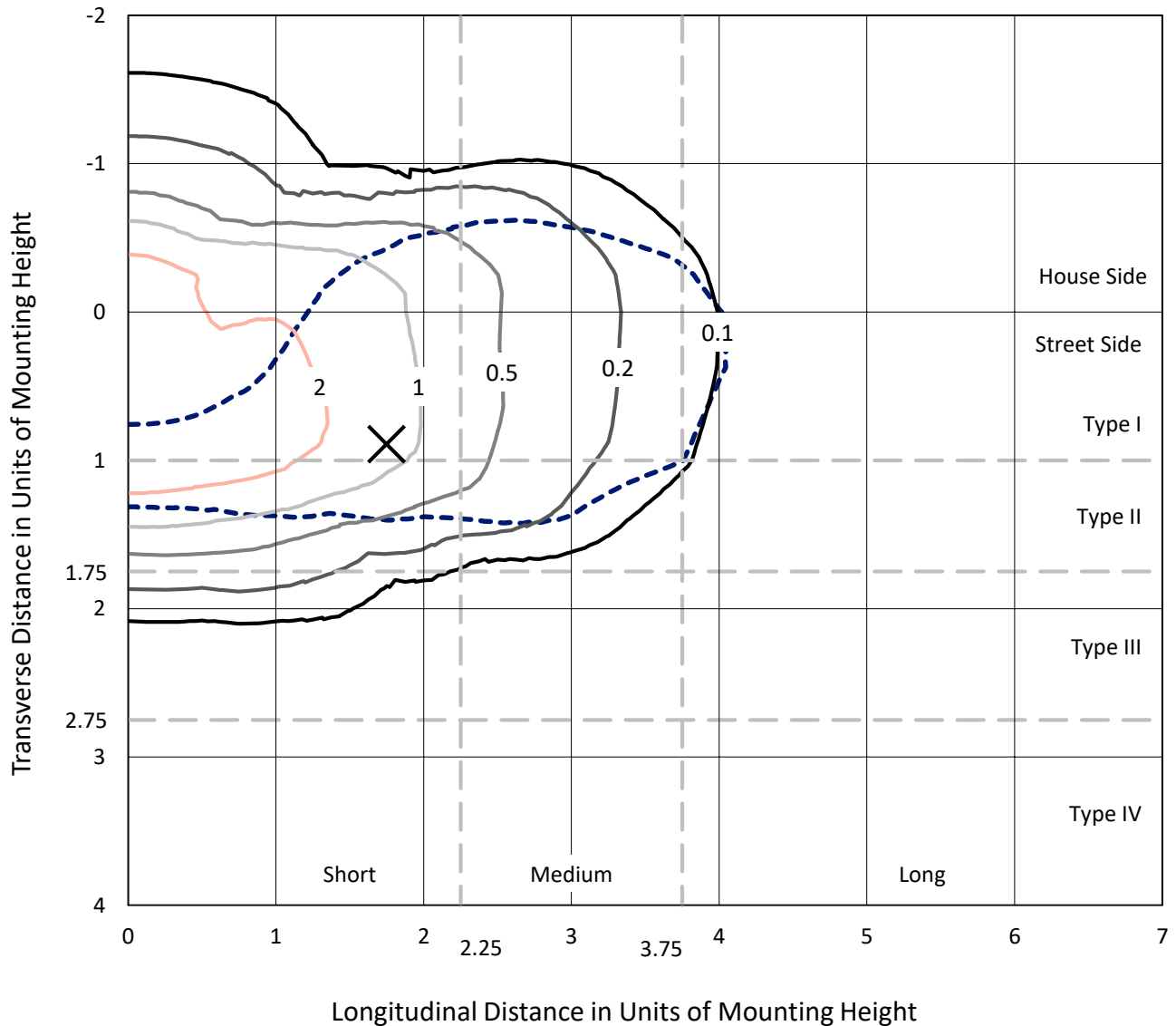
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

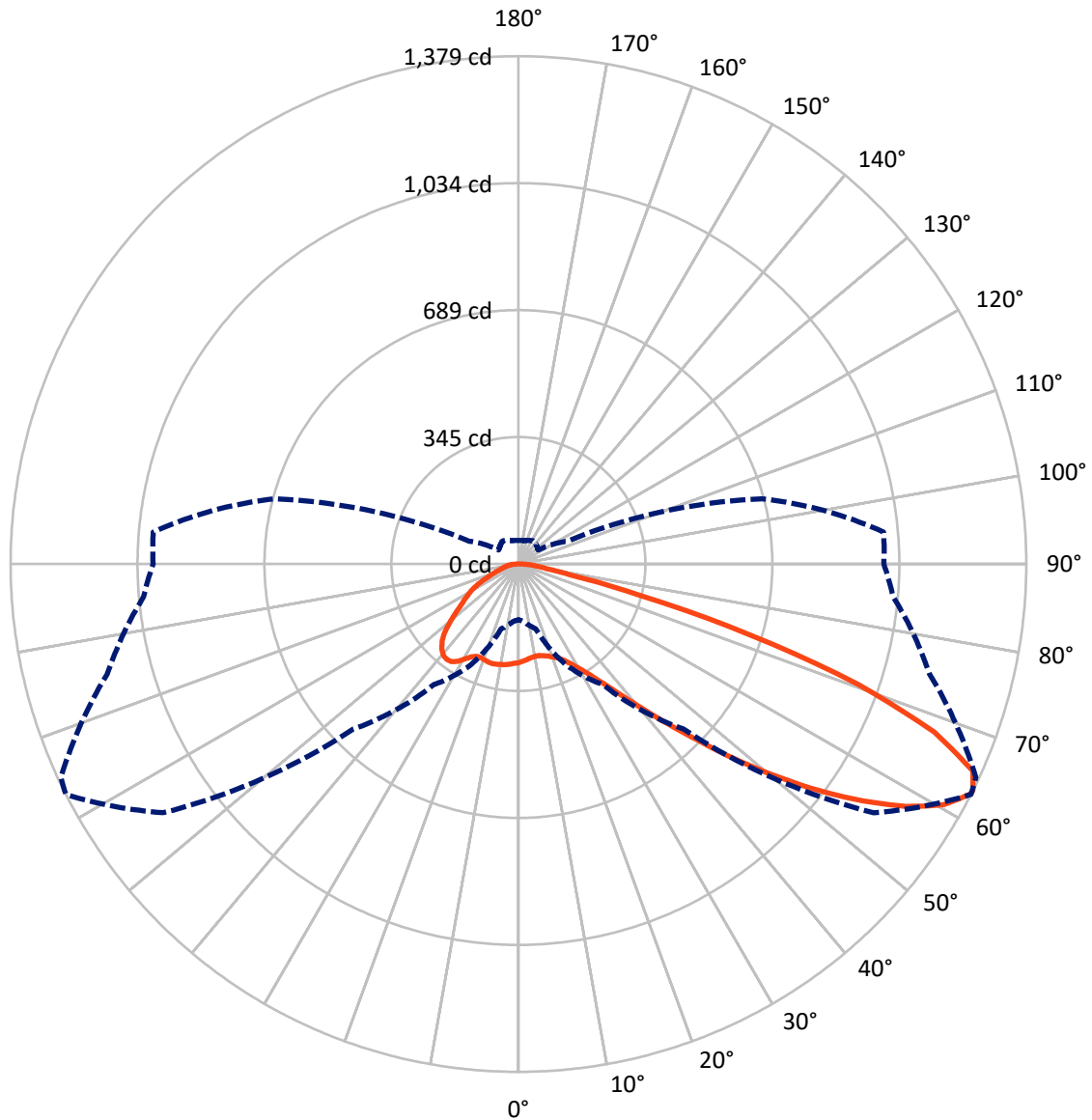
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	583.5	0.0	583.5
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	1460.5	0.0	1460.5
	% Fixture	71.5	0.0	71.5
Total	Lumens	2044.0	0.0	2044.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.4	1.2
10°-20°	74.9	3.7
20°-30°	131.6	6.4
30°-40°	221.8	10.9
40°-50°	388.5	19.0
50°-60°	502.2	24.6
60°-70°	434.7	21.3
70°-80°	225.6	11.0
80°-90°	39.3	1.9
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°	2044.0	100.0
0°-180°	2044.0	100.0



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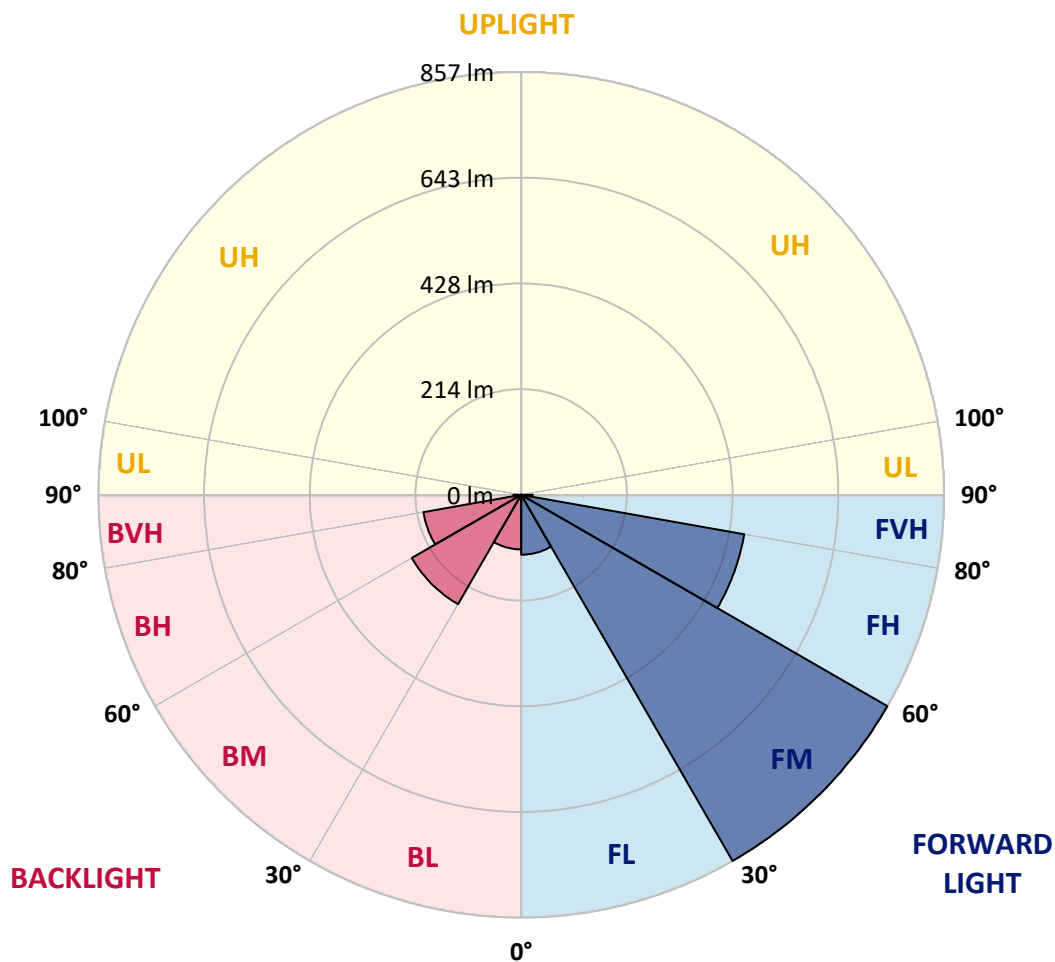
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	121.3	5.9			
FM (30°-60°)	856.7	41.9			
FH (60°-80°)	459.0	22.5			G0/660
FVH (80°-90°)	23.4	1.1			G1/100
BL (0°-30°)	110.5	5.4	B1/500		
BM (30°-60°)	255.8	12.5	B1/1000		
BH (60°-80°)	201.3	9.8	B1/500		G1/500
BVH (80°-90°)	15.9	0.8			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	267.6	267.6	267.6	267.6	267.6	267.6	267.6	267.6	267.6	267.6	267.6
2.5°	261.3	260.5	261.9	262.5	262.3	263.4	263.4	263.6	263.6	264.6	265.5
5°	253.7	253.3	254.6	255.6	256.3	258.1	259.2	259.8	260.4	261.7	264.0
7.5°	246.4	245.8	247.7	248.5	249.6	252.1	254.8	256.3	257.1	260.0	263.2
10°	240.5	240.3	241.8	242.6	243.9	247.5	251.4	254.6	255.2	259.0	262.1
12.5°	237.6	237.2	238.9	239.9	242.2	246.6	251.0	255.0	256.0	260.4	263.0
15°	239.9	240.3	241.8	242.0	244.7	249.3	254.2	258.2	259.2	263.6	265.5
17.5°	250.8	250.6	251.6	251.2	252.1	254.4	259.8	263.0	264.2	267.4	269.0
20°	270.5	269.9	270.7	268.2	264.0	262.8	266.1	269.7	270.1	272.0	271.1
22.5°	300.5	301.1	299.4	293.1	282.9	278.1	276.0	277.2	278.5	278.3	275.5
25°	339.7	341.6	338.4	327.3	310.3	299.2	291.5	289.8	290.8	288.1	283.7
27.5°	391.2	392.7	385.6	368.4	345.5	329.0	313.7	307.8	307.8	302.1	294.0
30°	447.8	448.8	437.5	415.7	389.1	364.6	342.0	330.6	329.6	318.3	305.7
32.5°	516.7	514.0	500.6	473.6	440.2	406.5	377.4	360.0	358.1	341.1	325.0
35°	605.6	605.6	577.9	547.1	506.4	463.5	425.2	398.3	396.4	377.0	356.2
37.5°	702.2	701.9	676.8	634.3	585.5	533.1	482.1	448.4	444.0	423.3	400.0
40°	798.5	795.2	774.9	734.6	682.5	622.7	552.3	513.0	510.9	481.5	452.2
42.5°	868.9	865.8	856.2	829.3	795.0	751.8	643.5	590.5	587.5	550.4	514.6
45°	907.7	903.3	901.9	902.3	906.2	906.0	756.2	682.2	671.4	628.4	580.8
47.5°	898.9	888.6	902.3	937.7	997.2	1036.2	887.4	791.0	771.1	709.5	651.4
50°	827.9	822.9	852.4	924.5	1046.8	1138.4	1031.8	904.1	875.9	786.2	718.1
52.5°	703.4	713.0	749.3	851.8	1037.8	1200.2	1163.1	1021.5	982.5	859.3	776.1
55°	559.9	572.0	623.2	731.9	954.6	1200.9	1257.8	1135.3	1100.5	934.9	835.4
57.5°	407.5	424.5	488.6	588.2	808.6	1118.9	1304.4	1241.9	1202.1	1009.3	893.3
60°	256.0	268.0	337.8	453.4	618.1	937.7	1292.8	1327.2	1294.3	1079.5	959.5
62.5°	164.9	170.6	200.9	323.7	431.0	687.7	1206.5	1376.2	1362.0	1143.6	1009.5
63°	151.1	156.1	181.9	299.2	399.6	633.6	1177.4	1378.7	1370.2	1155.6	1021.1
65°	108.1	113.4	126.8	205.6	295.0	425.1	1008.9	1355.5	1364.9	1175.7	1037.0
67.5°	85.3	87.0	93.2	124.9	209.3	241.4	678.9	1217.2	1258.3	1154.3	1013.5
70°	76.3	77.7	84.6	95.8	158.4	156.5	354.1	978.7	1063.8	1081.2	954.2
72.5°	66.6	67.5	75.9	90.3	120.9	119.6	154.0	658.0	761.5	947.3	872.1
75°	55.1	56.0	63.1	80.2	102.3	94.5	96.4	343.9	436.5	742.6	764.8
77.5°	45.3	45.9	51.8	64.5	90.1	72.9	74.6	144.6	212.1	506.2	603.9
80°	32.9	33.1	38.6	49.0	68.9	65.8	55.5	78.8	96.2	277.4	379.9
82.5°	23.0	23.1	28.9	34.2	47.4	65.6	40.4	52.8	57.8	127.8	169.1
85°	16.1	15.7	19.7	22.6	30.0	39.8	30.8	33.9	35.8	55.3	45.5
87.5°	7.1	6.9	11.1	12.1	15.1	18.4	24.5	17.8	18.9	26.8	14.3
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°	267.6	267.6	267.6	267.6	267.6	267.6	267.6	267.6	267.6	267.6	267.6
2.5°	265.7	266.5	267.6	269.3	270.7	271.3	272.4	272.6	274.3	272.8	273.0
5°	265.3	266.3	268.8	271.8	273.9	275.5	278.3	279.3	281.0	280.2	280.1
7.5°	264.7	266.5	270.1	274.5	277.8	280.2	282.9	284.6	286.4	286.0	285.6
10°	264.0	266.1	271.3	275.7	280.2	282.9	284.8	285.0	285.6	285.2	284.3
12.5°	264.6	266.9	272.8	277.2	282.0	283.9	283.3	280.4	277.9	275.8	275.5
15°	266.5	269.1	274.7	278.7	282.5	281.4	277.9	271.6	267.0	264.4	264.6
17.5°	268.4	270.7	274.9	278.1	280.1	276.6	271.3	265.9	263.8	261.7	261.3
20°	270.1	270.5	273.2	276.0	275.8	273.2	268.2	261.7	257.5	254.0	254.2
22.5°	272.8	271.3	271.4	273.2	275.3	272.8	261.1	249.8	243.5	239.5	239.3
25°	278.9	275.7	272.6	273.5	281.6	265.7	246.0	231.3	225.7	222.1	222.5
27.5°	287.3	282.9	276.8	282.0	286.4	251.7	224.4	209.3	205.4	201.6	202.6
30°	296.5	290.2	282.7	300.1	281.0	229.6	197.6	183.8	180.4	176.8	177.5
32.5°	313.0	303.6	293.8	321.9	268.6	202.6	169.5	157.1	154.8	152.5	152.7
35°	340.3	329.2	318.7	338.6	252.5	174.5	144.2	135.4	133.5	130.8	130.8
37.5°	380.7	363.3	357.7	347.4	230.5	148.3	125.7	119.7	115.7	112.1	112.1
40°	427.5	406.9	402.5	350.1	201.8	126.4	112.7	107.5	102.2	96.8	97.2
42.5°	484.5	456.6	446.5	346.4	167.0	112.5	103.5	97.6	92.4	87.8	87.0
45°	548.8	513.4	487.8	335.9	135.4	103.9	97.6	90.5	84.0	80.0	79.2
47.5°	614.4	575.0	524.3	314.9	113.2	97.8	93.5	83.6	79.0	76.3	75.9
50°	677.2	636.1	554.6	281.8	100.4	93.4	87.6	80.3	76.5	74.2	74.0
52.5°	732.8	694.0	580.0	247.5	91.8	89.7	84.9	78.8	74.8	72.7	72.3
55°	785.8	752.7	605.3	216.9	84.4	83.6	83.6	77.3	72.9	71.0	70.6
57.5°	844.0	819.5	630.7	194.5	77.7	79.2	81.9	75.6	70.8	69.1	68.9
60°	911.1	896.8	657.5	174.8	71.7	74.4	79.4	73.3	68.3	67.0	66.6
62.5°	979.8	980.2	680.6	151.1	66.8	70.8	76.5	71.2	66.0	65.0	64.8
63°	991.9	995.3	683.9	146.0	65.6	70.0	75.8	70.4	65.4	64.5	64.3
65°	1021.5	1036.6	686.6	124.1	61.4	67.1	72.9	67.9	62.9	62.7	62.4
67.5°	1014.4	1039.1	669.9	97.4	56.6	63.1	68.9	64.3	59.9	59.9	59.1
70°	961.6	977.7	618.8	75.2	53.0	58.9	64.1	60.4	55.9	56.2	54.7
72.5°	880.7	863.1	509.0	58.7	48.6	54.1	58.5	55.5	51.5	51.1	49.4
75°	762.1	704.2	364.6	47.4	43.2	47.8	52.4	50.1	46.5	44.4	44.0
77.5°	580.8	499.8	218.5	40.2	38.6	42.5	45.3	43.6	40.7	38.3	38.4
80°	345.9	288.3	98.5	34.1	33.5	36.3	38.6	37.3	35.4	32.3	31.6
82.5°	140.0	111.5	44.2	27.5	28.3	30.4	32.5	31.4	29.8	29.1	24.7
85°	36.3	35.0	25.8	20.7	21.8	22.8	25.6	25.6	24.3	19.9	18.4
87.5°	10.3	13.8	14.3	13.0	14.7	14.9	17.8	17.8	18.2	12.2	11.1
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)