

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: P348624

Luminaire Tested: **ARCH-N-PA1-10-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
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-T3
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 III - Short - Semi-Cutoff
BUG Rating: B0 - 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

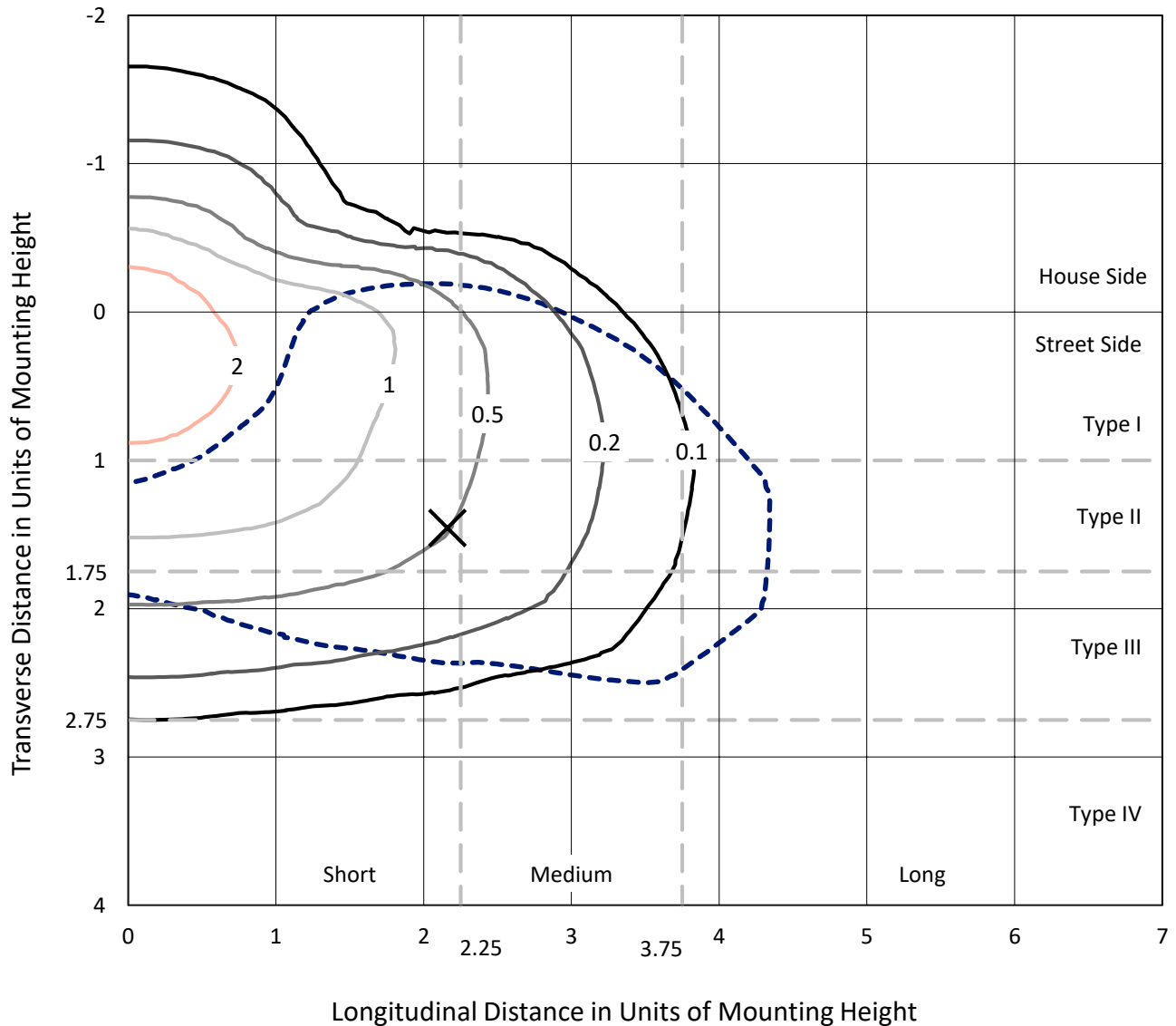


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

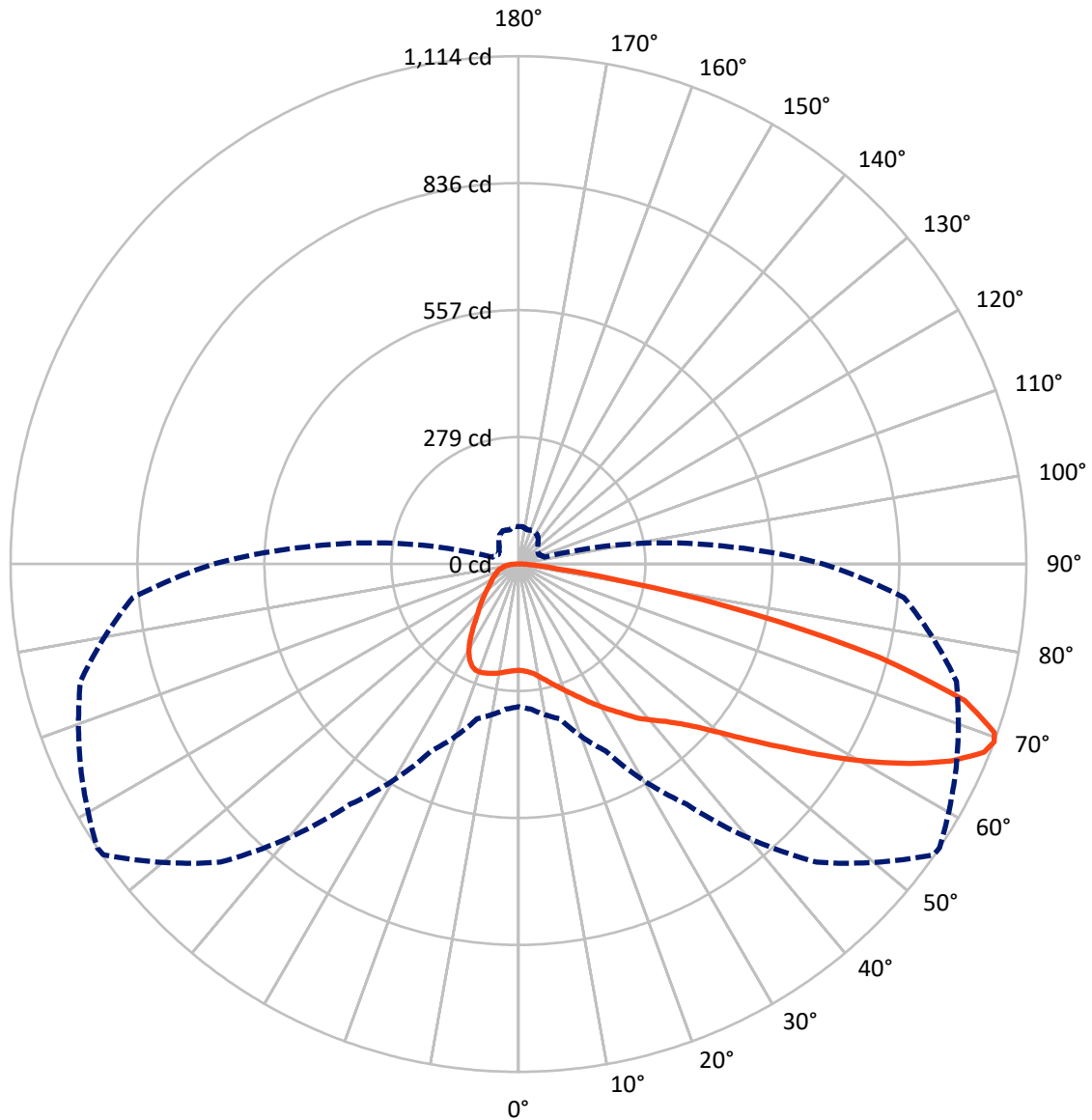


Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	397.3	0.0	397.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	1386.7	0.0	1386.7
	% Fixture	77.7	0.0	77.7
Total	Lumens	1784.0	0.0	1784.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.9	1.3
10°-20°	73.7	4.1
20°-30°	128.6	7.2
30°-40°	184.7	10.4
40°-50°	255.6	14.3
50°-60°	374.5	21.0
60°-70°	456.6	25.6
70°-80°	252.4	14.2
80°-90°	35.0	2.0
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



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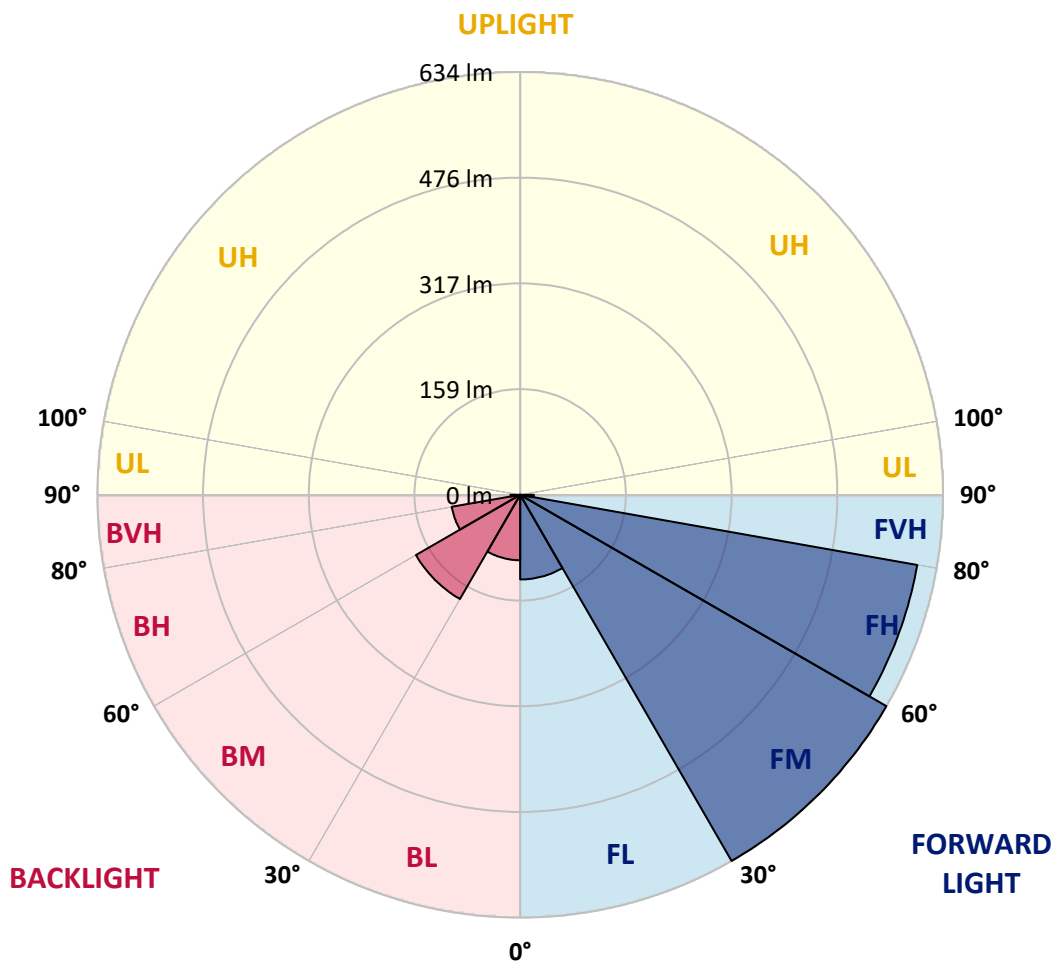
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	127.0	7.1			
FM	(30°-60°)	634.3	35.6			
FH	(60°-80°)	604.9	33.9			G0/660
FVH	(80°-90°)	20.6	1.2			G1/100
BL	(0°-30°)	98.2	5.5	B0/110		
BM	(30°-60°)	180.6	10.1	B0/220		
BH	(60°-80°)	104.2	5.8	B0/110		G0/110
BVH	(80°-90°)	14.4	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2
2.5°	234.7	235.0	234.8	235.3	234.7	235.1	234.8	234.8	234.6	234.0	233.4
5°	238.4	238.9	238.6	239.1	238.4	238.5	238.0	238.0	237.4	236.2	235.0
7.5°	244.2	244.7	244.5	245.0	244.0	244.0	243.3	243.2	242.1	240.2	238.8
10°	251.1	251.8	251.5	252.3	251.5	251.8	251.1	251.1	249.6	246.9	245.1
12.5°	261.1	262.0	261.3	261.3	260.9	261.4	260.8	260.7	259.4	255.7	253.2
15°	274.5	275.5	274.0	273.9	272.2	272.0	272.0	271.8	271.0	266.5	262.5
17.5°	289.9	290.2	289.0	287.0	284.8	283.4	283.2	283.7	283.7	278.5	272.1
20°	305.0	305.6	304.6	302.4	299.5	297.5	296.0	297.0	296.9	290.8	281.6
22.5°	321.5	322.8	321.3	318.5	315.2	312.8	310.2	311.1	311.2	303.6	290.9
25°	342.8	341.6	340.7	336.7	332.0	329.6	327.2	328.1	327.8	317.4	300.6
27.5°	361.7	361.9	360.7	356.5	351.0	345.7	345.6	346.1	345.2	331.8	309.7
30°	383.6	383.7	382.0	378.2	372.2	365.4	363.8	364.8	362.8	345.5	319.3
32.5°	405.4	406.0	404.1	399.5	394.7	386.4	383.2	383.9	378.9	359.4	329.2
35°	424.5	425.4	424.8	421.7	416.5	409.4	405.6	405.2	399.1	376.5	342.3
37.5°	444.0	444.8	444.2	441.6	439.5	431.9	429.9	429.9	419.3	393.9	358.9
40°	464.1	465.3	464.5	460.9	459.1	455.7	450.9	449.7	438.3	414.9	386.1
42.5°	482.7	484.3	487.5	485.4	481.8	482.3	472.5	471.9	463.5	445.9	420.2
45°	509.1	511.4	516.9	515.3	514.5	511.8	500.2	499.6	496.5	487.5	462.5
47.5°	537.9	541.1	550.9	551.2	559.1	554.0	538.2	536.3	537.1	537.4	514.2
50°	564.5	568.0	584.0	591.6	610.3	611.4	586.1	584.4	587.3	595.8	574.4
52.5°	585.7	590.1	610.1	633.5	665.5	674.6	645.1	643.8	645.9	660.5	642.5
55°	601.2	606.0	627.8	670.4	721.5	737.6	712.9	711.7	713.0	731.7	716.6
57.5°	604.9	606.0	637.7	695.2	768.8	807.3	795.9	793.5	786.8	803.1	798.3
60°	587.8	592.5	629.6	703.9	805.3	876.1	882.7	879.6	861.0	874.3	870.5
62.5°	553.3	561.7	599.3	690.7	819.7	932.2	967.8	964.1	932.1	940.7	922.4
65°	496.9	500.4	540.0	644.9	801.5	968.2	1043.7	1041.9	1001.5	988.1	931.9
67.5°	396.0	402.7	436.2	549.2	727.0	964.0	1102.4	1102.2	1046.9	1005.6	898.0
69°	312.8	319.8	351.7	452.4	643.3	925.2	1112.3	1114.4	1059.6	994.9	849.4
70°	249.4	257.4	279.4	381.0	569.0	874.0	1104.1	1108.0	1057.2	977.3	804.6
72.5°	106.1	112.7	128.3	196.4	346.8	652.7	1009.5	1024.1	1000.2	894.5	665.0
75°	46.3	48.4	55.4	80.1	154.0	355.2	790.8	817.9	855.2	756.0	495.3
77.5°	33.9	34.8	38.7	47.0	69.1	134.2	508.6	524.3	616.8	550.2	303.8
80°	26.2	26.9	29.9	34.5	45.1	54.3	231.9	245.5	346.8	282.6	126.5
82.5°	20.9	21.3	23.4	25.4	31.2	32.9	77.0	85.4	128.0	78.1	33.5
85°	19.4	19.9	20.6	18.6	20.0	19.3	33.3	34.8	38.7	30.7	14.0
87.5°	8.8	10.4	20.5	14.4	10.6	8.5	13.6	14.3	16.0	16.1	6.2
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°	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2	233.2
2.5°	233.8	233.6	233.9	233.2	234.1	234.0	233.7	233.8	234.5	234.4	234.5
5°	235.2	235.1	235.4	234.9	236.0	236.4	236.4	237.0	237.7	237.8	237.8
7.5°	238.8	238.8	238.9	238.2	238.9	238.9	238.6	239.1	239.8	239.9	239.8
10°	244.9	245.0	244.7	242.8	242.1	240.5	238.9	239.0	239.9	240.5	240.7
12.5°	252.7	252.4	251.1	247.6	245.0	241.6	240.0	239.9	240.8	241.3	241.5
15°	261.5	260.8	257.3	251.6	247.1	243.7	241.2	240.5	240.1	239.4	239.5
17.5°	269.9	268.3	262.5	254.6	249.8	245.3	240.4	236.4	233.6	232.0	231.5
20°	278.3	275.3	266.9	257.3	251.2	243.2	233.6	225.5	220.4	218.1	217.7
22.5°	286.1	281.2	271.0	260.2	250.1	235.9	220.9	209.1	202.1	198.9	199.2
25°	293.6	286.9	275.3	262.2	244.2	223.2	203.2	188.7	180.6	177.1	176.9
27.5°	300.3	292.6	280.0	260.6	233.2	205.0	182.2	168.1	161.3	158.3	157.8
30°	307.9	299.8	286.2	254.2	217.1	183.9	161.8	151.8	147.0	144.0	143.4
32.5°	317.2	309.6	291.3	242.8	196.5	162.0	145.8	138.8	134.5	131.1	130.5
35°	330.7	322.5	292.6	226.3	173.9	144.7	134.0	126.9	121.0	116.6	116.2
37.5°	347.7	338.6	289.6	205.0	151.9	133.4	124.3	115.5	107.8	101.7	100.7
40°	372.1	358.5	281.5	180.4	135.8	124.8	114.7	104.7	95.2	88.0	86.6
42.5°	401.5	381.8	268.9	155.9	123.9	116.0	105.3	92.9	83.8	78.7	77.9
45°	438.9	406.0	251.5	134.5	112.2	107.2	95.1	83.6	78.0	74.2	73.6
47.5°	481.5	433.2	233.3	117.1	102.3	98.9	86.9	79.5	75.0	72.1	71.5
50°	533.9	463.8	213.9	102.9	92.4	89.1	83.0	77.3	73.7	71.4	70.9
52.5°	593.1	498.4	200.0	91.6	84.1	81.7	81.0	76.0	73.1	71.4	70.9
55°	656.7	533.6	184.9	82.2	77.0	77.7	79.6	76.1	74.2	72.1	71.3
57.5°	720.5	570.0	168.1	74.2	71.4	74.7	78.7	76.4	74.7	72.7	72.0
60°	770.9	593.1	142.2	67.5	66.9	71.4	76.5	74.5	72.4	72.5	72.3
62.5°	794.4	591.8	113.5	61.5	62.4	66.9	73.0	71.7	69.9	72.3	72.5
65°	781.2	562.3	88.3	56.1	57.6	62.2	69.3	70.2	70.9	75.5	76.1
67.5°	725.8	504.9	68.4	51.4	53.2	59.0	69.6	76.5	77.3	82.2	82.1
69°	668.4	451.1	59.4	48.9	51.1	59.8	74.4	80.5	77.5	82.7	81.9
70°	620.4	408.5	54.6	47.3	50.1	61.2	77.6	80.4	76.6	81.0	79.8
72.5°	477.8	293.9	46.3	44.2	46.8	58.6	78.5	78.7	74.4	75.3	73.2
75°	327.7	185.7	40.4	40.0	41.7	52.8	75.6	75.2	68.8	67.6	65.9
77.5°	180.7	94.3	34.4	36.0	37.2	46.8	68.7	68.1	62.9	60.3	59.7
80°	69.7	41.3	29.0	32.0	32.8	40.5	60.2	59.7	55.3	52.0	51.1
82.5°	26.3	21.6	24.0	27.7	27.5	33.4	51.0	50.7	46.5	41.6	40.1
85°	12.2	13.0	19.0	22.9	21.1	24.8	40.8	41.4	36.2	30.4	30.4
87.5°	5.2	7.3	13.5	17.3	14.2	16.7	29.9	28.6	26.2	18.2	17.1
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)