

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: P348960

Luminaire Tested: **ARCH-N-PA1-10-830-U-T2U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348960
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-PA1-10-830-U-T2U
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 II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

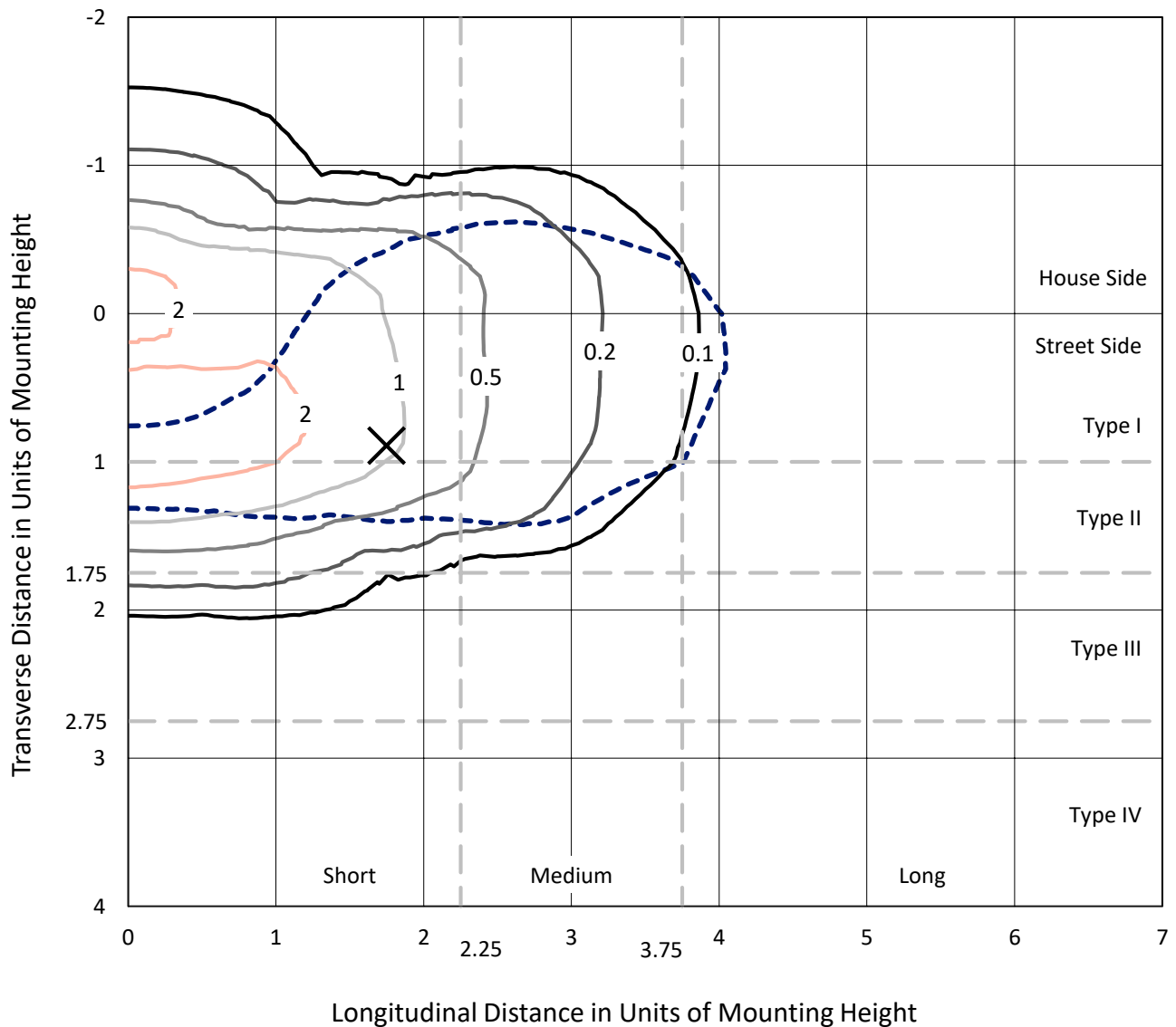
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

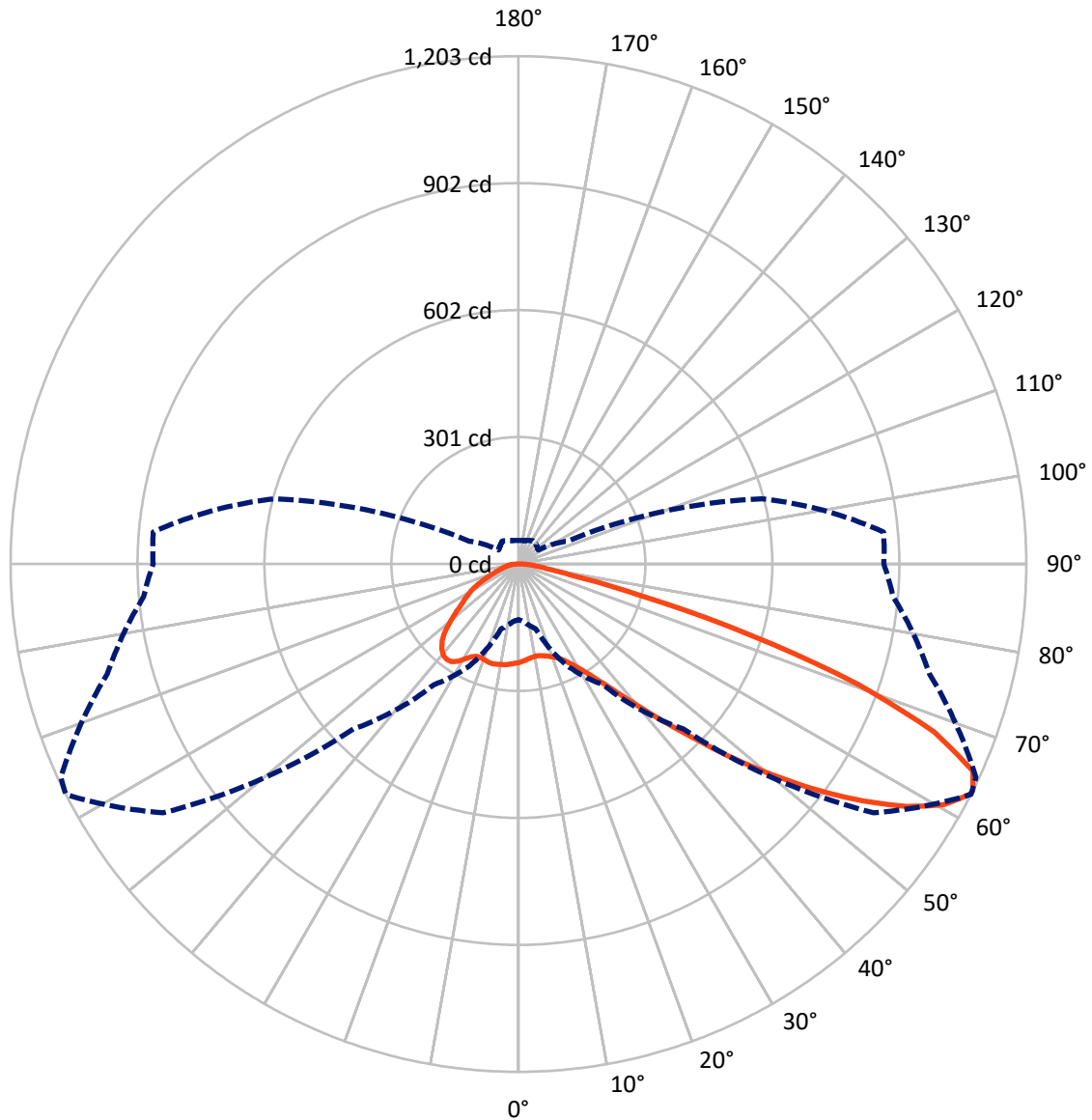
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 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	509.3	0.0	509.3
	% Fixture	28.5	0.0	28.5
Street Side	Lumens	1274.7	0.0	1274.7
	% Fixture	71.5	0.0	71.5
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°	22.2	1.2
10°-20°	65.4	3.7
20°-30°	114.8	6.4
30°-40°	193.6	10.9
40°-50°	339.1	19.0
50°-60°	438.3	24.6
60°-70°	379.4	21.3
70°-80°	196.9	11.0
80°-90°	34.3	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°	1784.0	100.0
0°-180°	1784.0	100.0



REPORT NUMBER: P348960

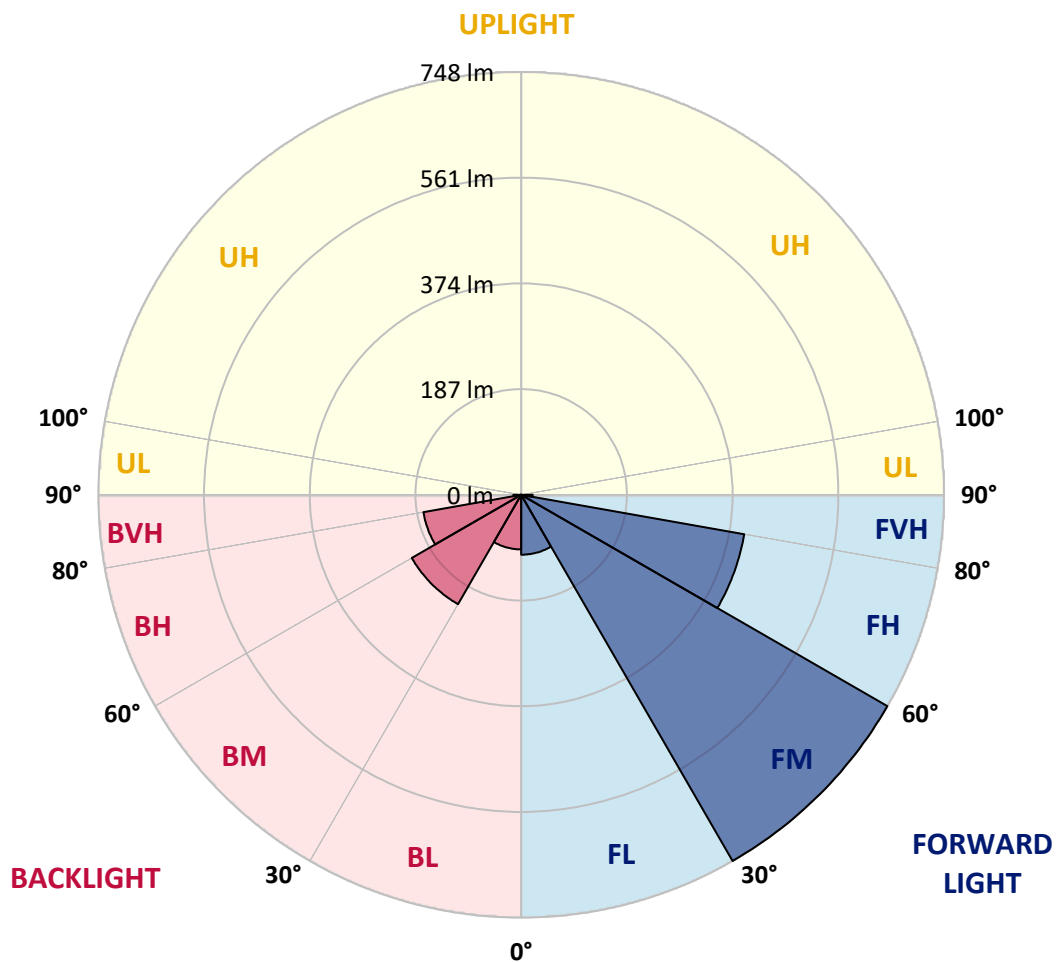
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	105.9	5.9			
FM (30°-60°)	747.7	41.9			
FH (60°-80°)	400.6	22.5			G0/660
FVH (80°-90°)	20.4	1.1			G1/100
BL (0°-30°)	96.5	5.4	B0/110		
BM (30°-60°)	223.3	12.5	B1/1000		
BH (60°-80°)	175.7	9.8	B1/500		G1/500
BVH (80°-90°)	13.9	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





REPORT NUMBER: P348960

CATALOG NUMBER: ARCH-N-PA1-10-830-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6
2.5°	228.1	227.4	228.6	229.1	228.9	229.9	229.9	230.1	230.1	230.9	231.7
5°	221.4	221.1	222.2	223.1	223.7	225.2	226.2	226.7	227.2	228.4	230.4
7.5°	215.0	214.5	216.2	216.9	217.9	220.1	222.4	223.7	224.4	226.9	229.7
10°	209.9	209.7	211.0	211.7	212.9	216.0	219.4	222.2	222.7	226.1	228.7
12.5°	207.4	207.0	208.5	209.4	211.4	215.2	219.1	222.6	223.4	227.2	229.6
15°	209.4	209.7	211.0	211.2	213.5	217.5	221.9	225.4	226.2	230.1	231.7
17.5°	218.9	218.7	219.6	219.2	220.1	222.1	226.7	229.6	230.6	233.4	234.7
20°	236.1	235.6	236.2	234.1	230.4	229.4	232.2	235.4	235.7	237.4	236.6
22.5°	262.3	262.8	261.3	255.8	246.9	242.8	240.9	241.9	243.1	242.9	240.4
25°	296.5	298.2	295.4	285.7	270.8	261.1	254.4	252.9	253.8	251.4	247.6
27.5°	341.4	342.8	336.6	321.6	301.5	287.2	273.8	268.6	268.6	263.6	256.6
30°	390.9	391.7	381.8	362.8	339.6	318.2	298.5	288.5	287.7	277.8	266.8
32.5°	451.0	448.6	436.9	413.4	384.2	354.8	329.4	314.2	312.6	297.7	283.7
35°	528.6	528.6	504.4	477.5	441.9	404.5	371.2	347.6	345.9	329.1	310.9
37.5°	612.9	612.6	590.7	553.6	511.1	465.3	420.7	391.4	387.5	369.5	349.1
40°	696.9	694.1	676.4	641.1	595.7	543.5	482.0	447.8	446.0	420.2	394.7
42.5°	758.3	755.7	747.3	723.8	693.9	656.2	561.7	515.4	512.7	480.3	449.1
45°	792.2	788.4	787.2	787.6	790.9	790.7	660.0	595.4	586.0	548.5	506.9
47.5°	784.5	775.5	787.6	818.4	870.4	904.4	774.5	690.4	673.0	619.3	568.5
50°	722.6	718.3	744.0	806.9	913.6	993.6	900.6	789.1	764.5	686.2	626.8
52.5°	613.9	622.3	654.0	743.5	905.8	1047.5	1015.1	891.6	857.5	750.0	677.4
55°	488.7	499.2	544.0	638.8	833.1	1048.2	1097.8	990.9	960.5	815.9	729.1
57.5°	355.6	370.5	426.4	513.4	705.7	976.6	1138.5	1083.9	1049.2	880.9	779.7
60°	223.4	233.9	294.9	395.7	539.4	818.4	1128.3	1158.4	1129.7	942.2	837.5
62.5°	143.9	148.9	175.3	282.5	376.2	600.2	1053.0	1201.1	1188.8	998.1	881.1
63°	131.9	136.2	158.8	261.1	348.8	553.0	1027.6	1203.3	1195.9	1008.6	891.2
65°	94.3	99.0	110.7	179.5	257.5	371.0	880.5	1183.1	1191.3	1026.1	905.1
67.5°	74.5	76.0	81.3	109.0	182.7	210.7	592.5	1062.4	1098.3	1007.4	884.6
70°	66.6	67.8	73.8	83.6	138.2	136.6	309.0	854.2	928.5	943.7	832.8
72.5°	58.1	58.9	66.3	78.8	105.5	104.4	134.4	574.3	664.7	826.8	761.2
75°	48.1	48.9	55.1	70.0	89.3	82.5	84.1	300.2	381.0	648.1	667.5
77.5°	39.6	40.1	45.2	56.3	78.6	63.6	65.1	126.2	185.2	441.8	527.1
80°	28.7	28.9	33.7	42.7	60.1	57.4	48.4	68.8	84.0	242.1	331.6
82.5°	20.0	20.2	25.2	29.9	41.4	57.3	35.2	46.1	50.4	111.5	147.6
85°	14.0	13.7	17.2	19.7	26.2	34.7	26.9	29.6	31.2	48.3	39.7
87.5°	6.2	6.0	9.7	10.5	13.2	16.0	21.4	15.5	16.5	23.4	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P348960

CATALOG NUMBER: ARCH-N-PA1-10-830-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6	233.6
2.5°	231.9	232.6	233.6	235.1	236.2	236.8	237.8	237.9	239.4	238.1	238.3
5°	231.6	232.4	234.6	237.3	239.1	240.4	242.9	243.8	245.3	244.6	244.4
7.5°	231.1	232.6	235.7	239.6	242.4	244.6	246.9	248.4	249.9	249.6	249.3
10°	230.4	232.2	236.8	240.6	244.6	246.9	248.6	248.8	249.3	248.9	248.1
12.5°	230.9	232.9	238.1	241.9	246.1	247.8	247.3	244.8	242.6	240.8	240.4
15°	232.6	234.9	239.8	243.3	246.6	245.6	242.6	237.1	233.1	230.7	230.9
17.5°	234.2	236.2	239.9	242.8	244.4	241.4	236.8	232.1	230.2	228.4	228.1
20°	235.7	236.1	238.4	240.9	240.8	238.4	234.1	228.4	224.7	221.7	221.9
22.5°	238.1	236.8	236.9	238.4	240.3	238.1	227.9	218.1	212.5	209.0	208.9
25°	243.4	240.6	237.9	238.8	245.8	231.9	214.7	201.9	197.0	193.8	194.2
27.5°	250.8	246.9	241.6	246.1	249.9	219.7	195.8	182.7	179.3	176.0	176.8
30°	258.8	253.3	246.8	262.0	245.3	200.4	172.5	160.4	157.4	154.3	154.9
32.5°	273.1	265.0	256.5	281.0	234.4	176.8	147.9	137.1	135.1	133.1	133.2
35°	297.0	287.3	278.2	295.5	220.4	152.3	125.9	118.2	116.5	114.2	114.2
37.5°	332.3	317.1	312.2	303.2	201.2	129.4	109.7	104.5	101.0	97.8	97.8
40°	373.2	355.1	351.3	305.5	176.1	110.4	98.3	93.8	89.2	84.5	84.8
42.5°	422.9	398.5	389.7	302.4	145.8	98.2	90.3	85.1	80.6	76.6	76.0
45°	479.0	448.1	425.7	293.2	118.2	90.7	85.1	79.0	73.3	69.8	69.1
47.5°	536.3	501.9	457.6	274.8	98.8	85.3	81.6	73.0	69.0	66.6	66.3
50°	591.0	555.1	484.0	245.9	87.7	81.5	76.5	70.1	66.8	64.8	64.6
52.5°	639.6	605.7	506.2	216.0	80.1	78.3	74.1	68.8	65.3	63.4	63.1
55°	685.9	657.0	528.3	189.3	73.6	73.0	73.0	67.5	63.6	61.9	61.6
57.5°	736.6	715.3	550.5	169.8	67.8	69.1	71.5	65.9	61.8	60.3	60.1
60°	795.2	782.7	573.8	152.6	62.6	64.9	69.3	63.9	59.6	58.4	58.1
62.5°	855.2	855.5	594.0	131.9	58.3	61.8	66.8	62.1	57.6	56.8	56.6
63°	865.7	868.7	596.9	127.4	57.3	61.1	66.1	61.4	57.1	56.3	56.1
65°	891.6	904.8	599.2	108.4	53.6	58.6	63.6	59.3	54.9	54.8	54.4
67.5°	885.4	906.9	584.7	85.0	49.4	55.1	60.1	56.1	52.3	52.3	51.6
70°	839.3	853.3	540.1	65.6	46.2	51.4	55.9	52.8	48.8	49.1	47.8
72.5°	768.7	753.3	444.3	51.3	42.4	47.2	51.1	48.4	44.9	44.6	43.1
75°	665.2	614.6	318.2	41.4	37.7	41.7	45.7	43.7	40.6	38.7	38.4
77.5°	506.9	436.3	190.7	35.1	33.7	37.1	39.6	38.1	35.6	33.4	33.6
80°	301.9	251.6	86.0	29.7	29.2	31.7	33.7	32.6	30.9	28.2	27.5
82.5°	122.2	97.3	38.6	24.0	24.7	26.5	28.4	27.4	26.0	25.4	21.5
85°	31.7	30.6	22.5	18.0	19.0	19.9	22.4	22.4	21.2	17.4	16.0
87.5°	9.0	12.0	12.5	11.4	12.9	13.0	15.5	15.5	15.9	10.7	9.7
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)