

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: P348647

Luminaire Tested: **ARCH-N-PA1-20-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348647
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-PA1-20-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 420mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3106 lumens
Efficiency: N/A
Efficacy: 129.4 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): 24
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

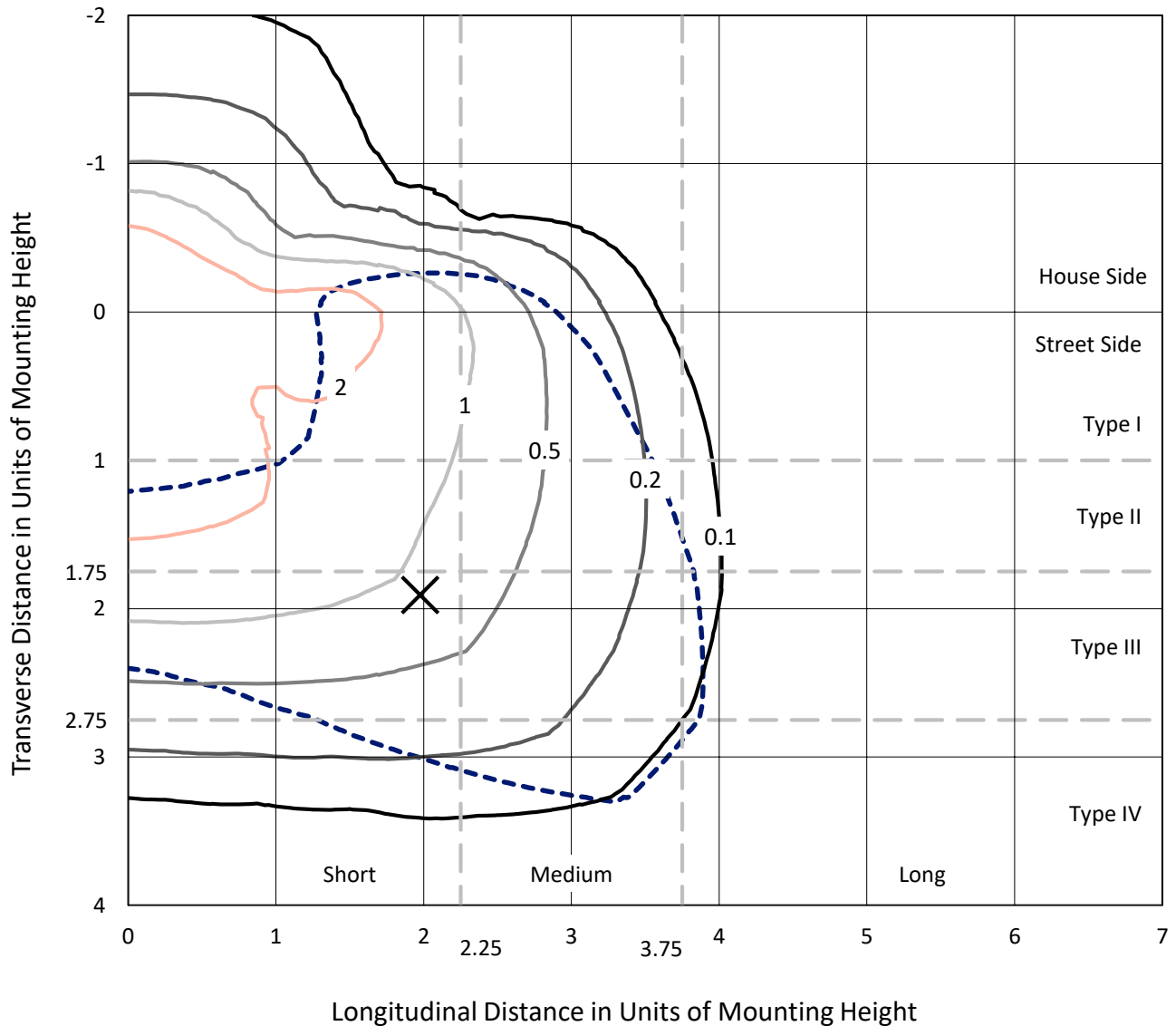


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Iso-Footcandle Lines of Horizontal Illumination

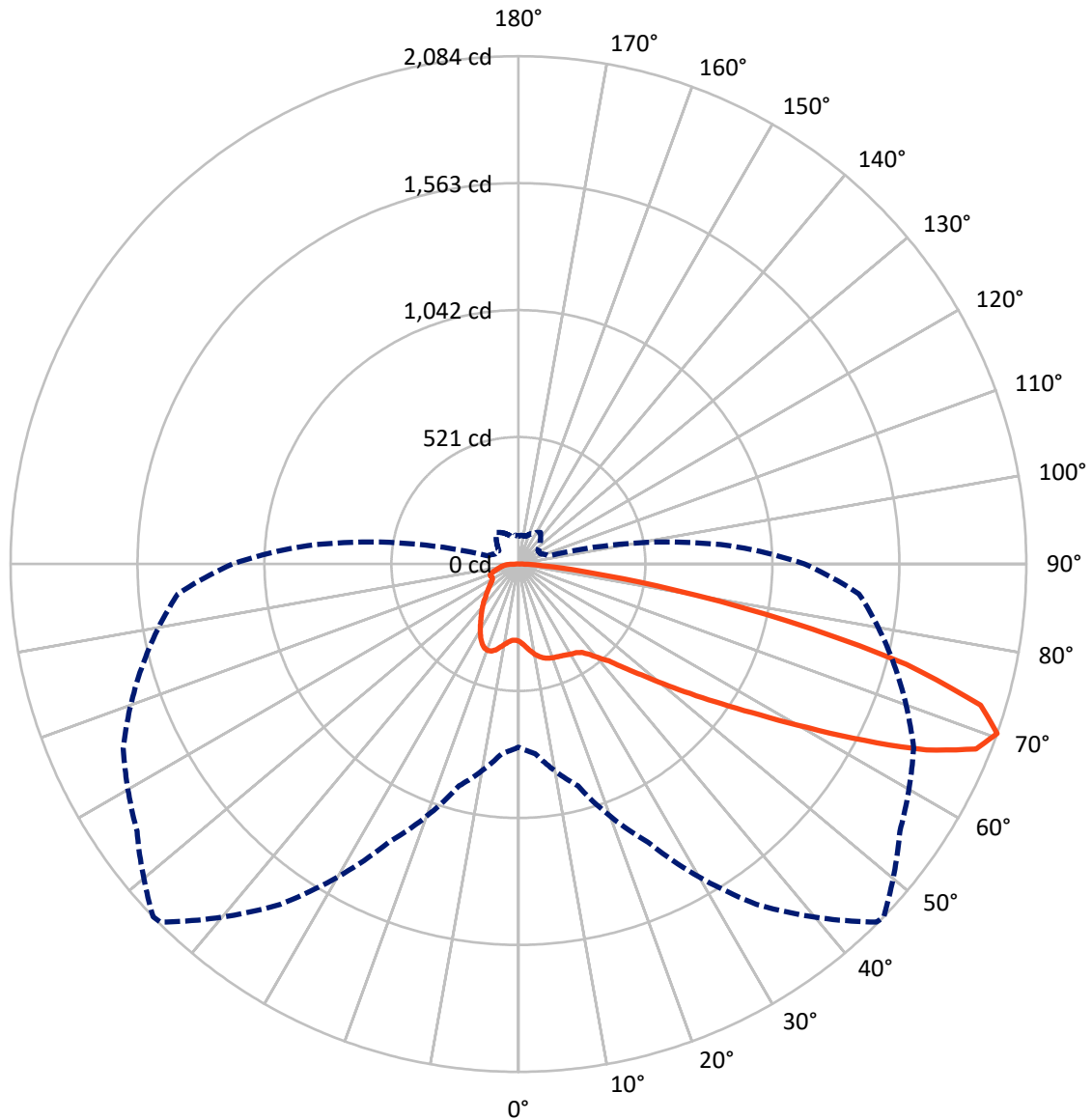
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 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	711.9	0.0	711.9
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2394.1	0.0	2394.1
	% Fixture	77.1	0.0	77.1
Total	Lumens	3106.0	0.0	3106.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	1.0
10°-20°	107.5	3.5
20°-30°	179.2	5.8
30°-40°	254.3	8.2
40°-50°	374.1	12.0
50°-60°	633.5	20.4
60°-70°	899.2	29.0
70°-80°	546.3	17.6
80°-90°	79.7	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°	3106.0	100.0
0°-180°	3106.0	100.0



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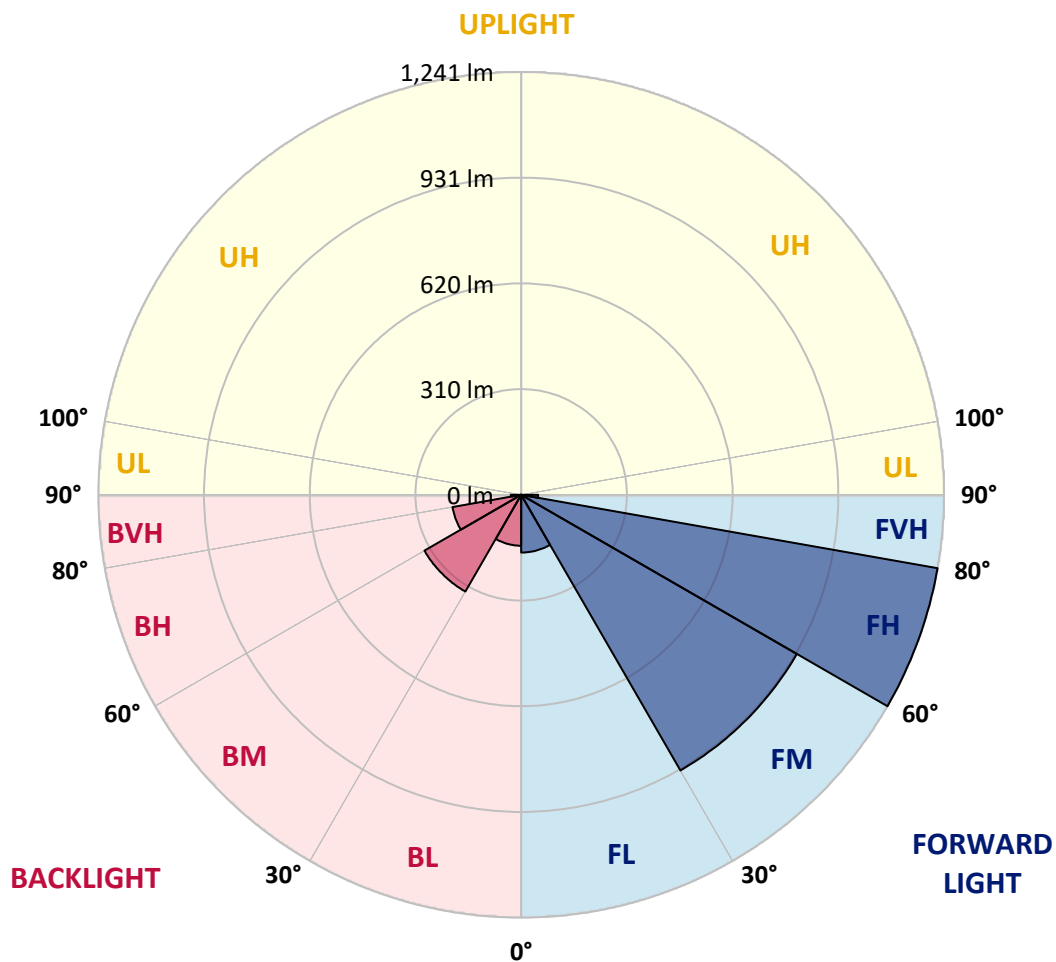
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	169.5	5.5			
FM	(30°-60°)	934.1	30.1			
FH	(60°-80°)	1240.8	39.9			G1/1800
FVH	(80°-90°)	49.7	1.6			G1/100
BL	(0°-30°)	149.5	4.8	B1/500		
BM	(30°-60°)	327.7	10.6	B1/1000		
BH	(60°-80°)	204.7	6.6	B1/500		G1/500
BVH	(80°-90°)	30.1	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°	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4
2.5°	332.3	332.5	332.9	331.9	328.9	328.0	327.7	324.6	322.6	319.6	317.1
5°	358.9	359.1	358.4	355.5	348.9	344.0	343.5	336.5	330.2	323.3	318.2
7.5°	386.6	386.9	384.9	379.3	370.0	361.5	361.0	351.4	341.7	331.4	323.8
10°	411.1	409.9	406.6	398.7	387.8	377.3	376.9	366.9	355.8	343.3	333.1
12.5°	427.5	426.5	422.2	412.6	400.6	391.1	390.2	381.0	370.1	356.5	344.3
15°	436.6	437.3	431.6	420.7	409.0	400.9	400.2	393.6	383.9	370.2	356.2
17.5°	437.7	438.4	432.8	422.1	412.5	407.0	406.7	402.3	395.3	382.1	367.5
20°	430.9	431.3	426.8	418.0	411.7	410.0	409.9	408.0	402.8	391.1	376.8
22.5°	421.0	421.4	418.1	411.7	409.6	412.2	413.0	412.2	408.5	397.5	384.2
25°	418.6	418.4	415.0	408.5	410.3	415.9	416.9	417.2	414.7	405.1	393.5
27.5°	430.4	429.6	423.2	412.7	413.9	420.7	422.0	425.1	423.5	415.1	404.1
30°	464.5	463.2	449.9	428.9	423.2	426.7	428.3	433.2	433.5	426.5	418.3
32.5°	522.1	520.5	496.7	459.1	438.8	432.7	434.2	441.5	445.5	440.1	431.2
35°	594.9	593.1	561.9	510.4	464.9	444.3	445.4	451.2	459.1	451.4	439.7
37.5°	670.8	666.5	636.4	570.8	506.5	469.1	469.1	469.8	473.5	457.6	449.7
40°	746.3	741.9	714.7	641.8	560.3	508.1	505.6	489.2	486.2	472.5	469.8
42.5°	816.5	815.2	799.1	722.1	623.4	546.5	543.1	515.1	515.7	507.2	507.3
45°	891.1	891.1	878.0	803.1	697.0	608.1	604.7	563.6	570.0	566.0	575.5
47.5°	952.0	953.9	952.1	887.5	782.5	686.5	680.3	630.8	648.6	662.1	689.6
50°	1014.2	1017.1	1017.5	980.0	886.0	779.6	772.6	719.9	759.8	798.5	852.6
52.5°	1104.4	1111.1	1084.4	1072.4	1012.7	890.1	883.2	834.6	901.2	955.5	1048.7
55°	1188.1	1182.2	1163.2	1170.6	1148.3	1016.0	1010.8	968.1	1058.7	1129.3	1250.3
57.5°	1233.3	1232.9	1252.1	1283.9	1294.6	1171.2	1166.8	1125.3	1236.3	1289.4	1439.7
60°	1286.5	1287.2	1334.6	1407.0	1450.8	1364.4	1362.5	1331.0	1408.8	1438.8	1588.2
62.5°	1293.9	1307.3	1389.0	1513.5	1597.1	1590.2	1594.4	1516.3	1563.2	1558.1	1699.0
65°	1208.4	1226.0	1373.8	1545.7	1742.5	1837.1	1841.0	1702.6	1684.9	1660.0	1738.7
67.5°	1033.0	1059.1	1219.6	1475.7	1790.4	2019.6	2025.1	1847.1	1785.9	1694.6	1643.2
70°	751.7	780.7	942.3	1260.3	1705.0	2078.0	2084.2	1911.0	1789.7	1596.2	1402.8
72.5°	454.1	476.8	610.0	927.9	1439.0	1971.7	1982.8	1830.0	1634.0	1352.1	1035.8
75°	199.4	214.3	295.0	534.7	1030.2	1631.3	1645.2	1566.4	1327.6	982.6	612.3
77.5°	84.9	89.2	121.0	232.3	582.4	1114.7	1133.9	1144.5	900.7	534.7	258.7
80°	52.9	54.6	68.5	105.1	272.5	626.1	646.7	673.4	447.3	196.5	90.4
82.5°	32.2	34.1	45.5	63.6	141.9	283.8	293.7	312.5	173.6	84.9	46.8
85°	19.3	20.7	27.8	40.2	80.8	111.6	111.5	123.3	81.7	54.6	24.7
87.5°	9.2	10.3	14.9	20.8	40.7	41.9	39.2	44.4	49.6	35.8	12.4
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°	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4
2.5°	316.2	315.8	314.4	313.4	313.1	312.5	312.0	312.3	312.7	312.8	312.8
5°	316.1	315.0	313.1	312.4	313.4	314.6	316.2	318.4	319.6	320.6	321.2
7.5°	321.2	319.0	317.0	316.5	318.5	321.9	325.5	329.9	333.0	335.1	335.6
10°	329.7	327.0	324.9	325.4	328.8	333.7	338.8	344.5	349.2	352.0	352.3
12.5°	339.5	336.8	334.9	336.7	342.4	348.3	353.6	358.6	362.9	365.8	365.8
15°	350.8	348.9	346.6	350.8	358.4	363.7	366.0	368.4	370.8	372.9	372.5
17.5°	361.6	359.8	358.6	363.5	371.5	373.9	372.5	370.7	370.7	371.8	372.0
20°	371.0	369.4	370.1	374.9	379.0	376.5	371.0	365.2	362.9	363.5	364.2
22.5°	379.2	378.4	380.6	382.9	379.9	371.0	360.8	353.0	350.1	349.9	350.1
25°	388.7	388.6	391.4	387.3	374.2	357.7	344.0	336.4	334.8	336.1	338.2
27.5°	400.6	401.8	403.2	388.4	362.5	337.6	323.7	318.5	320.1	323.1	325.2
30°	415.8	419.0	416.0	385.7	345.7	314.6	301.3	299.9	304.2	308.6	310.7
32.5°	430.6	435.6	428.4	378.8	324.0	290.3	280.0	279.6	284.9	289.1	292.1
35°	442.5	452.4	437.6	365.1	298.9	267.9	260.3	257.4	259.4	264.4	267.8
37.5°	458.0	474.5	444.0	344.2	271.7	249.4	240.5	234.0	232.3	234.3	236.0
40°	486.4	508.2	447.0	315.0	245.1	230.9	221.9	212.3	205.6	200.7	200.8
42.5°	532.8	552.1	445.1	279.4	220.6	212.8	202.7	191.5	180.7	169.6	168.8
45°	608.0	617.4	439.3	241.8	199.0	193.9	184.4	173.3	158.8	146.3	145.1
47.5°	728.4	707.7	430.4	209.0	180.0	177.8	169.1	156.3	140.9	130.8	130.0
50°	892.7	838.1	426.0	182.8	163.2	163.8	156.7	143.1	128.6	121.2	120.3
52.5°	1089.1	990.0	434.4	162.6	149.7	151.9	146.6	133.8	121.7	115.9	115.0
55°	1292.9	1147.3	443.5	148.0	136.9	141.3	139.5	128.9	118.0	112.6	111.8
57.5°	1467.3	1264.8	425.4	136.1	125.5	132.3	133.9	125.9	116.1	111.2	110.3
60°	1577.1	1312.1	378.0	124.9	116.5	125.2	130.7	125.0	116.8	116.4	115.8
62.5°	1629.2	1308.0	306.9	116.1	110.9	122.1	133.1	129.8	125.3	129.1	129.5
65°	1605.8	1245.5	228.5	110.2	106.8	123.3	140.1	138.8	127.8	131.6	132.1
67.5°	1451.9	1096.3	169.2	105.1	102.4	126.6	152.9	141.8	123.0	125.7	124.0
70°	1173.5	869.2	130.5	99.4	97.8	126.2	158.6	140.0	117.8	118.4	113.8
72.5°	809.2	592.7	106.2	94.1	91.2	115.0	154.6	135.5	113.4	108.5	102.5
75°	440.1	318.1	90.2	88.5	79.6	101.0	147.1	132.3	109.5	103.0	99.6
77.5°	173.2	132.0	78.3	81.0	69.6	89.2	138.8	126.3	104.1	95.6	93.9
80°	70.7	67.4	64.9	70.0	59.8	78.0	128.8	119.2	97.6	88.7	85.2
82.5°	40.1	41.9	50.5	55.3	48.6	71.9	124.0	113.4	89.8	79.4	75.4
85°	20.5	24.6	35.2	39.6	35.7	61.1	114.3	99.3	72.1	60.8	61.1
87.5°	9.9	13.7	22.2	24.9	23.2	44.2	85.4	72.0	56.1	44.4	43.0
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)