

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: P348646

Luminaire Tested: **ARCH-N-PA1-19-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348646
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-PA1-19-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2743 lumens
Efficiency: N/A
Efficacy: 144.4 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): 19
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

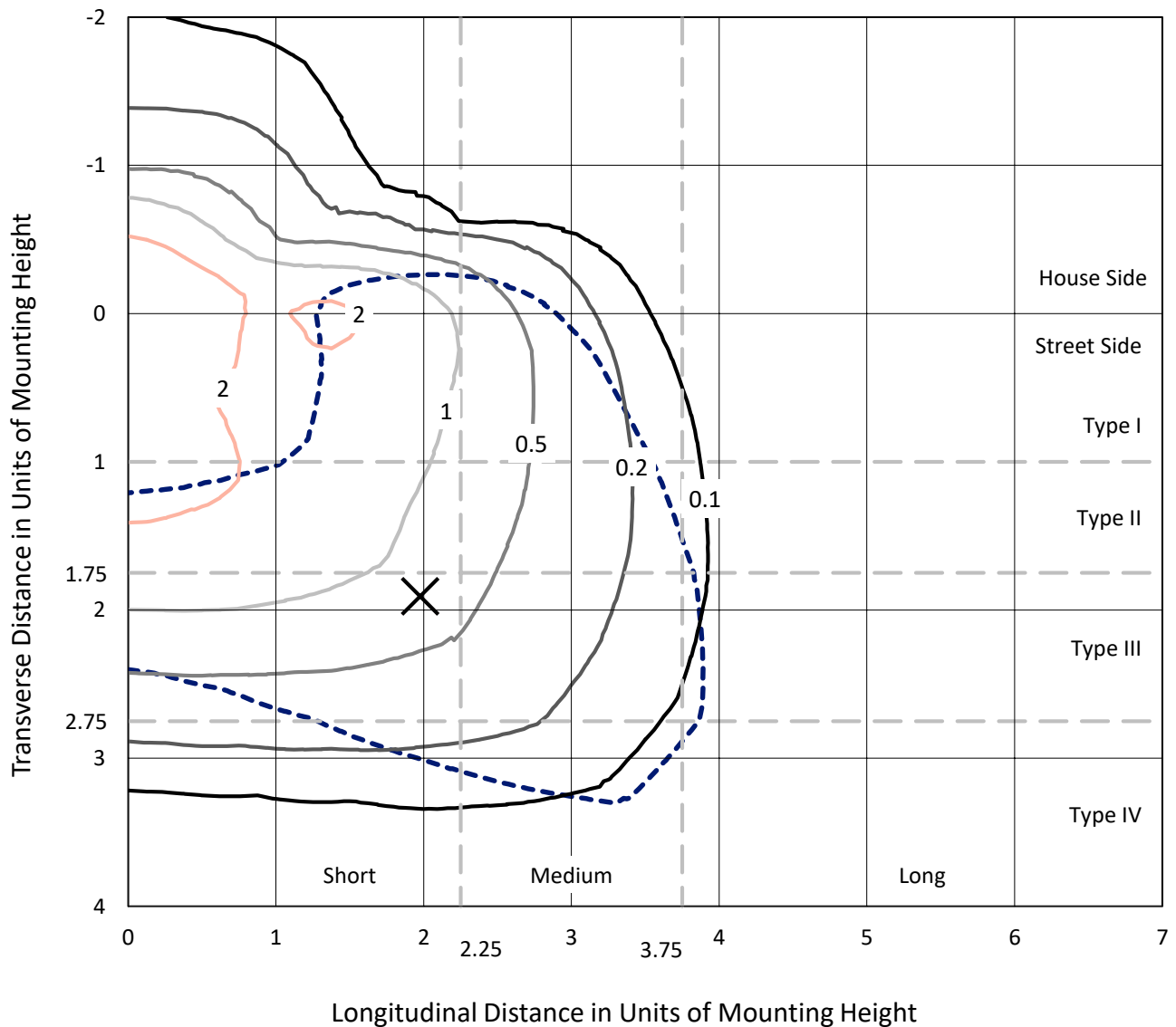


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

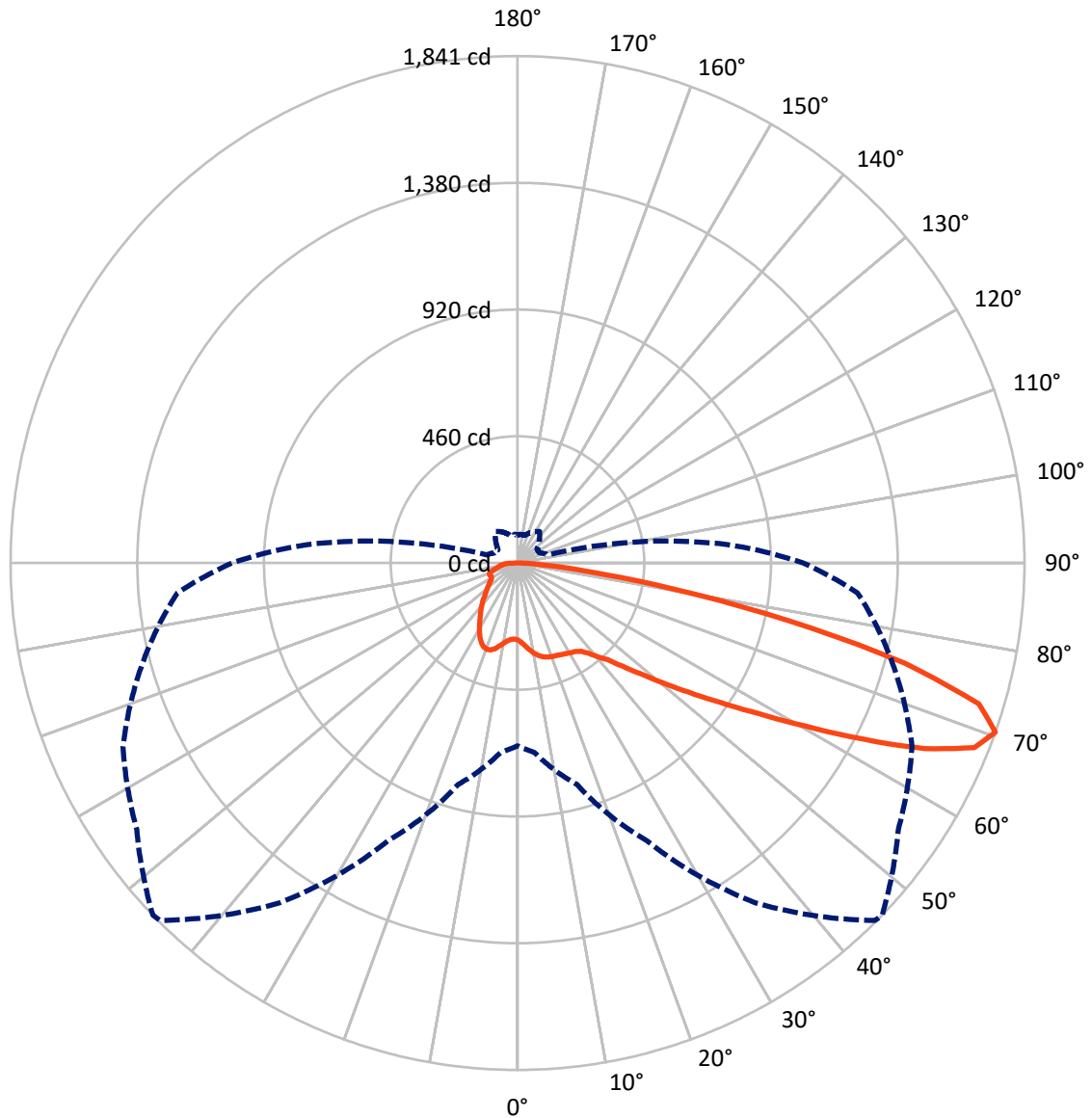


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Non-Cutoff

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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	628.7	0.0	628.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	2114.3	0.0	2114.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	2743.0	0.0	2743.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.5	1.0
10°-20°	94.9	3.5
20°-30°	158.3	5.8
30°-40°	224.6	8.2
40°-50°	330.3	12.0
50°-60°	559.4	20.4
60°-70°	794.1	29.0
70°-80°	482.4	17.6
80°-90°	70.4	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°	2743.0	100.0
0°-180°	2743.0	100.0



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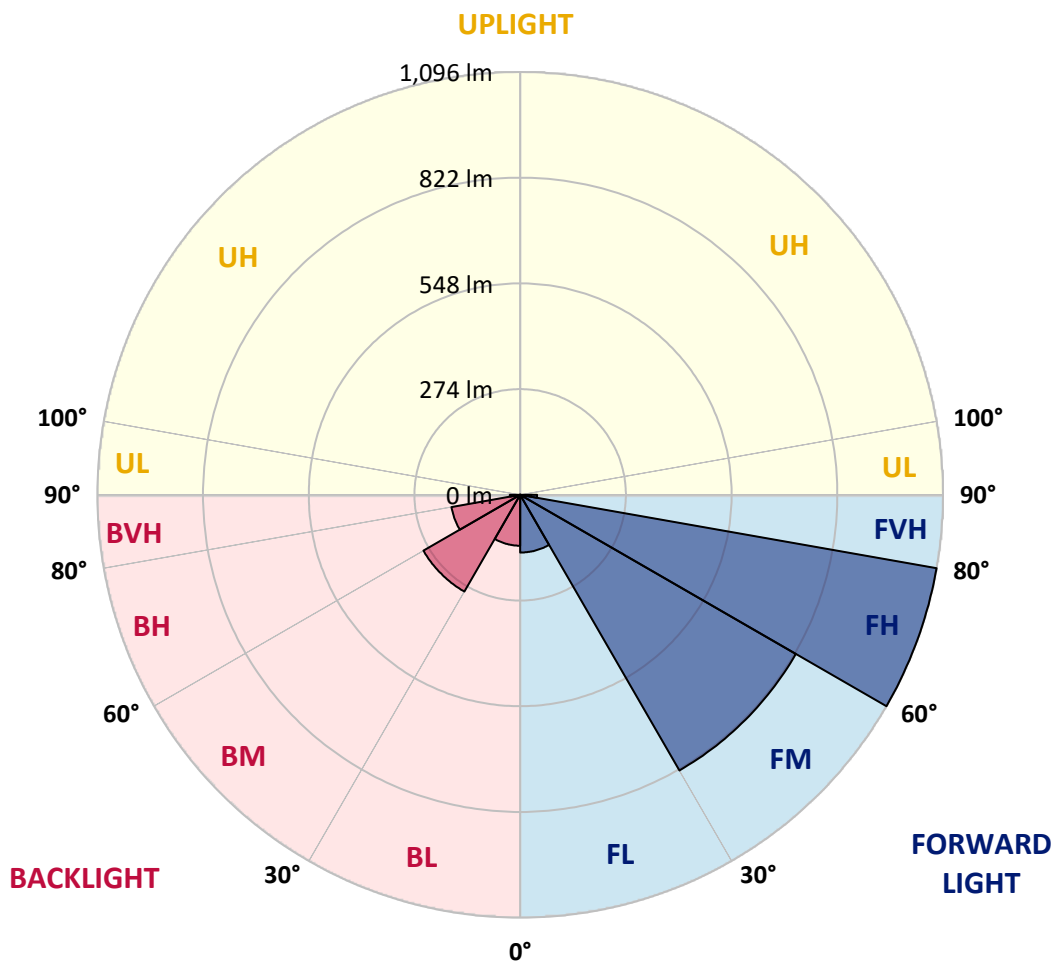
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	149.7	5.5			
FM	(30°-60°)	825.0	30.1			
FH	(60°-80°)	1095.8	39.9			G1/1800
FVH	(80°-90°)	43.9	1.6			G1/100
BL	(0°-30°)	132.0	4.8	B1/500		
BM	(30°-60°)	289.4	10.6	B1/1000		
BH	(60°-80°)	180.7	6.6	B1/500		G1/500
BVH	(80°-90°)	26.6	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°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5
2.5°	293.4	293.6	294.0	293.1	290.4	289.7	289.4	286.7	284.9	282.3	280.0
5°	316.9	317.1	316.5	313.9	308.1	303.8	303.4	297.2	291.6	285.6	281.1
7.5°	341.4	341.7	339.9	334.9	326.8	319.3	318.8	310.3	301.8	292.7	285.9
10°	363.1	362.0	359.1	352.1	342.4	333.2	332.9	324.0	314.2	303.2	294.2
12.5°	377.6	376.6	372.9	364.4	353.8	345.4	344.6	336.4	326.9	314.8	304.1
15°	385.5	386.2	381.1	371.5	361.2	354.1	353.4	347.6	339.1	327.0	314.6
17.5°	386.6	387.1	382.2	372.8	364.3	359.4	359.2	355.3	349.1	337.5	324.5
20°	380.6	380.9	376.9	369.1	363.6	362.1	362.0	360.3	355.7	345.4	332.8
22.5°	371.8	372.1	369.2	363.6	361.7	364.0	364.7	364.0	360.8	351.1	339.3
25°	369.7	369.5	366.5	360.8	362.3	367.3	368.2	368.4	366.2	357.7	347.5
27.5°	380.1	379.4	373.7	364.5	365.5	371.5	372.7	375.4	374.0	366.6	356.9
30°	410.2	409.1	397.4	378.8	373.7	376.8	378.2	382.5	382.8	376.6	369.4
32.5°	461.1	459.7	438.7	405.4	387.5	382.2	383.5	389.9	393.4	388.6	380.8
35°	525.4	523.8	496.2	450.8	410.6	392.4	393.3	398.5	405.4	398.7	388.3
37.5°	592.4	588.6	562.0	504.1	447.3	414.3	414.3	414.9	418.2	404.1	397.2
40°	659.1	655.2	631.2	566.8	494.8	448.7	446.6	432.0	429.4	417.3	414.9
42.5°	721.0	719.9	705.7	637.7	550.6	482.6	479.6	454.9	455.5	448.0	448.1
45°	786.9	786.9	775.4	709.2	615.5	537.0	534.0	497.7	503.3	499.9	508.2
47.5°	840.7	842.4	840.8	783.7	691.1	606.2	600.8	557.0	572.8	584.7	609.0
50°	895.6	898.3	898.5	865.5	782.4	688.5	682.3	635.8	671.0	705.2	753.0
52.5°	975.3	981.2	957.7	947.1	894.3	786.1	780.0	737.1	795.8	843.8	926.1
55°	1049.2	1044.0	1027.2	1033.8	1014.1	897.2	892.6	855.0	935.0	997.3	1104.2
57.5°	1089.2	1088.8	1105.7	1133.9	1143.3	1034.3	1030.4	993.8	1091.8	1138.7	1271.4
60°	1136.1	1136.8	1178.7	1242.6	1281.3	1204.9	1203.3	1175.5	1244.2	1270.7	1402.5
62.5°	1142.7	1154.5	1226.6	1336.6	1410.4	1404.3	1408.1	1339.1	1380.5	1376.0	1500.5
65°	1067.1	1082.7	1213.2	1365.1	1538.8	1622.4	1625.9	1503.6	1488.0	1466.0	1535.5
67.5°	912.3	935.3	1077.1	1303.2	1581.2	1783.6	1788.5	1631.2	1577.1	1496.5	1451.2
70°	663.9	689.5	832.2	1113.0	1505.7	1835.1	1840.6	1687.6	1580.5	1409.7	1238.8
72.5°	401.0	421.1	538.7	819.4	1270.8	1741.2	1751.1	1616.1	1443.0	1194.1	914.8
75°	176.1	189.2	260.5	472.2	909.8	1440.7	1453.0	1383.3	1172.5	867.8	540.7
77.5°	75.0	78.8	106.8	205.1	514.3	984.4	1001.3	1010.7	795.5	472.2	228.5
80°	46.7	48.3	60.5	92.8	240.7	552.9	571.1	594.7	395.0	173.6	79.8
82.5°	28.4	30.1	40.2	56.1	125.3	250.6	259.4	276.0	153.3	75.0	41.3
85°	17.1	18.3	24.6	35.5	71.3	98.6	98.5	108.9	72.2	48.3	21.8
87.5°	8.2	9.1	13.1	18.4	36.0	37.0	34.6	39.2	43.8	31.6	11.0
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°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5
2.5°	279.3	278.9	277.7	276.7	276.5	276.0	275.5	275.8	276.2	276.3	276.3
5°	279.2	278.1	276.5	275.9	276.7	277.9	279.3	281.1	282.3	283.1	283.7
7.5°	283.7	281.7	279.9	279.6	281.2	284.2	287.4	291.4	294.1	296.0	296.4
10°	291.2	288.8	287.0	287.3	290.3	294.7	299.2	304.2	308.4	310.9	311.1
12.5°	299.8	297.5	295.8	297.4	302.4	307.6	312.3	316.7	320.5	323.0	323.0
15°	309.8	308.1	306.1	309.8	316.5	321.2	323.2	325.4	327.4	329.3	328.9
17.5°	319.4	317.8	316.7	321.0	328.1	330.2	328.9	327.3	327.3	328.4	328.6
20°	327.6	326.2	326.9	331.1	334.7	332.5	327.6	322.5	320.5	321.0	321.6
22.5°	334.8	334.2	336.2	338.1	335.5	327.6	318.6	311.8	309.2	309.0	309.2
25°	343.3	343.2	345.6	342.1	330.4	315.9	303.8	297.1	295.7	296.8	298.7
27.5°	353.8	354.8	356.1	343.0	320.1	298.1	285.8	281.2	282.6	285.4	287.2
30°	367.2	370.0	367.4	340.7	305.3	277.9	266.1	264.8	268.7	272.5	274.4
32.5°	380.3	384.7	378.3	334.6	286.1	256.4	247.3	246.9	251.6	255.3	258.0
35°	390.8	399.5	386.5	322.5	264.0	236.6	229.9	227.4	229.0	233.5	236.5
37.5°	404.5	419.0	392.1	304.0	239.9	220.2	212.4	206.6	205.1	206.9	208.4
40°	429.6	448.8	394.7	278.1	216.5	203.9	196.0	187.5	181.5	177.2	177.3
42.5°	470.5	487.6	393.0	246.8	194.8	187.9	179.0	169.2	159.6	149.8	149.1
45°	536.9	545.2	388.0	213.6	175.7	171.2	162.9	153.0	140.2	129.2	128.1
47.5°	643.3	625.0	380.1	184.6	158.9	157.0	149.4	138.0	124.5	115.6	114.8
50°	788.3	740.2	376.2	161.5	144.1	144.7	138.4	126.4	113.6	107.0	106.3
52.5°	961.8	874.3	383.7	143.6	132.2	134.1	129.4	118.2	107.5	102.3	101.6
55°	1141.8	1013.3	391.6	130.7	120.9	124.8	123.2	113.9	104.2	99.4	98.8
57.5°	1295.8	1117.0	375.7	120.2	110.9	116.9	118.3	111.1	102.5	98.2	97.4
60°	1392.8	1158.8	333.8	110.3	102.9	110.6	115.5	110.4	103.2	102.8	102.2
62.5°	1438.8	1155.1	271.0	102.5	97.9	107.9	117.5	114.6	110.7	114.1	114.3
65°	1418.1	1099.9	201.8	97.3	94.3	108.9	123.7	122.6	112.8	116.2	116.7
67.5°	1282.2	968.2	149.4	92.8	90.4	111.8	135.0	125.2	108.6	111.1	109.5
70°	1036.4	767.6	115.3	87.8	86.4	111.4	140.1	123.6	104.0	104.6	100.5
72.5°	714.7	523.4	93.8	83.1	80.5	101.6	136.5	119.7	100.2	95.8	90.5
75°	388.6	281.0	79.7	78.2	70.3	89.2	129.9	116.9	96.7	91.0	88.0
77.5°	152.9	116.6	69.2	71.5	61.5	78.8	122.6	111.5	91.9	84.4	82.9
80°	62.4	59.5	57.4	61.9	52.9	68.9	113.8	105.2	86.2	78.3	75.3
82.5°	35.4	37.0	44.6	48.8	42.9	63.5	109.5	100.2	79.3	70.1	66.6
85°	18.1	21.7	31.1	35.0	31.5	54.0	100.9	87.7	63.6	53.7	54.0
87.5°	8.7	12.1	19.6	22.0	20.5	39.1	75.4	63.6	49.6	39.2	38.0
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)