

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: P348590

Luminaire Tested: **ARCH-N-PA1-19-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348590
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-PA1-19-730-U-T3
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 III - Short - Semi-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

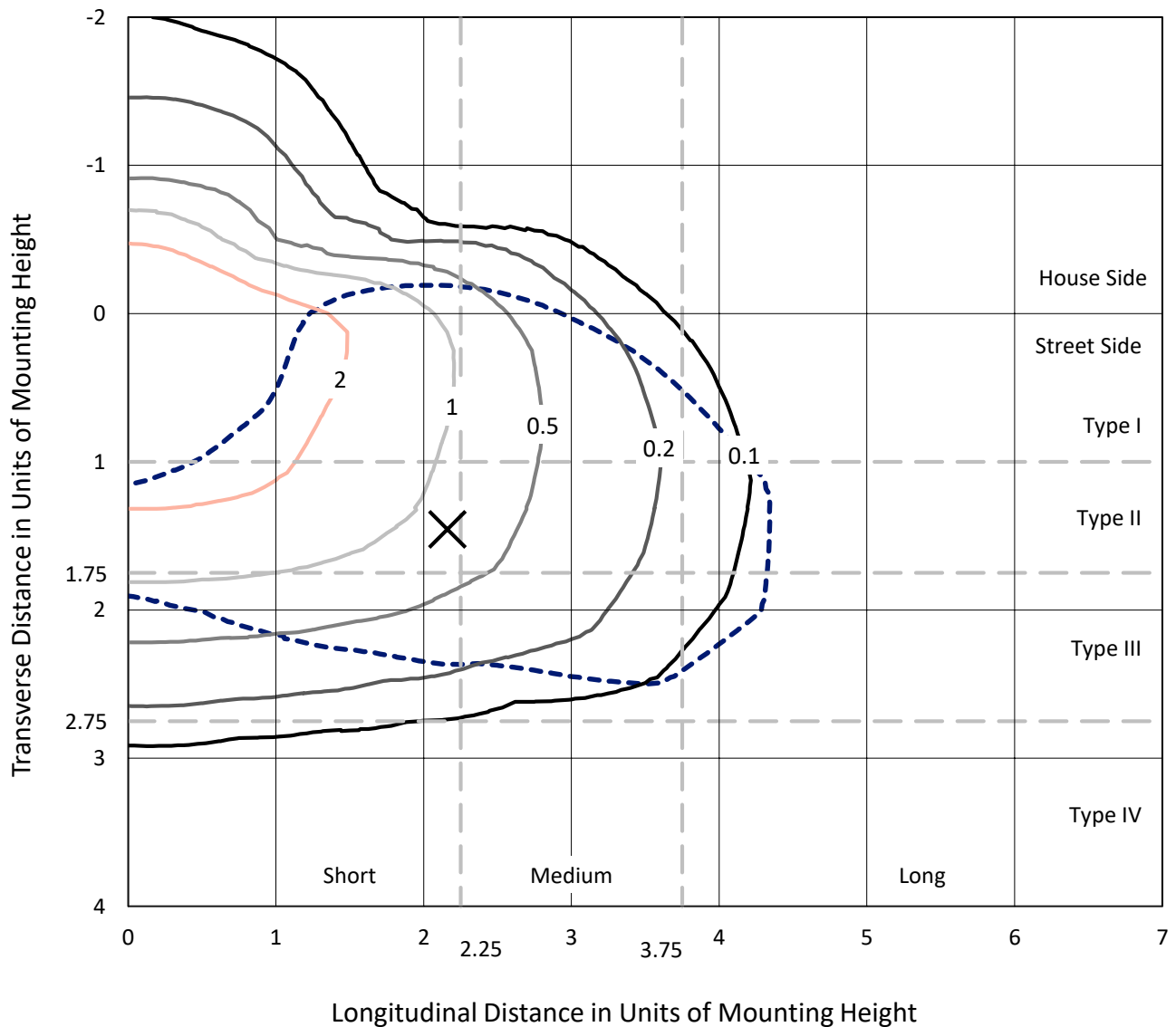


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

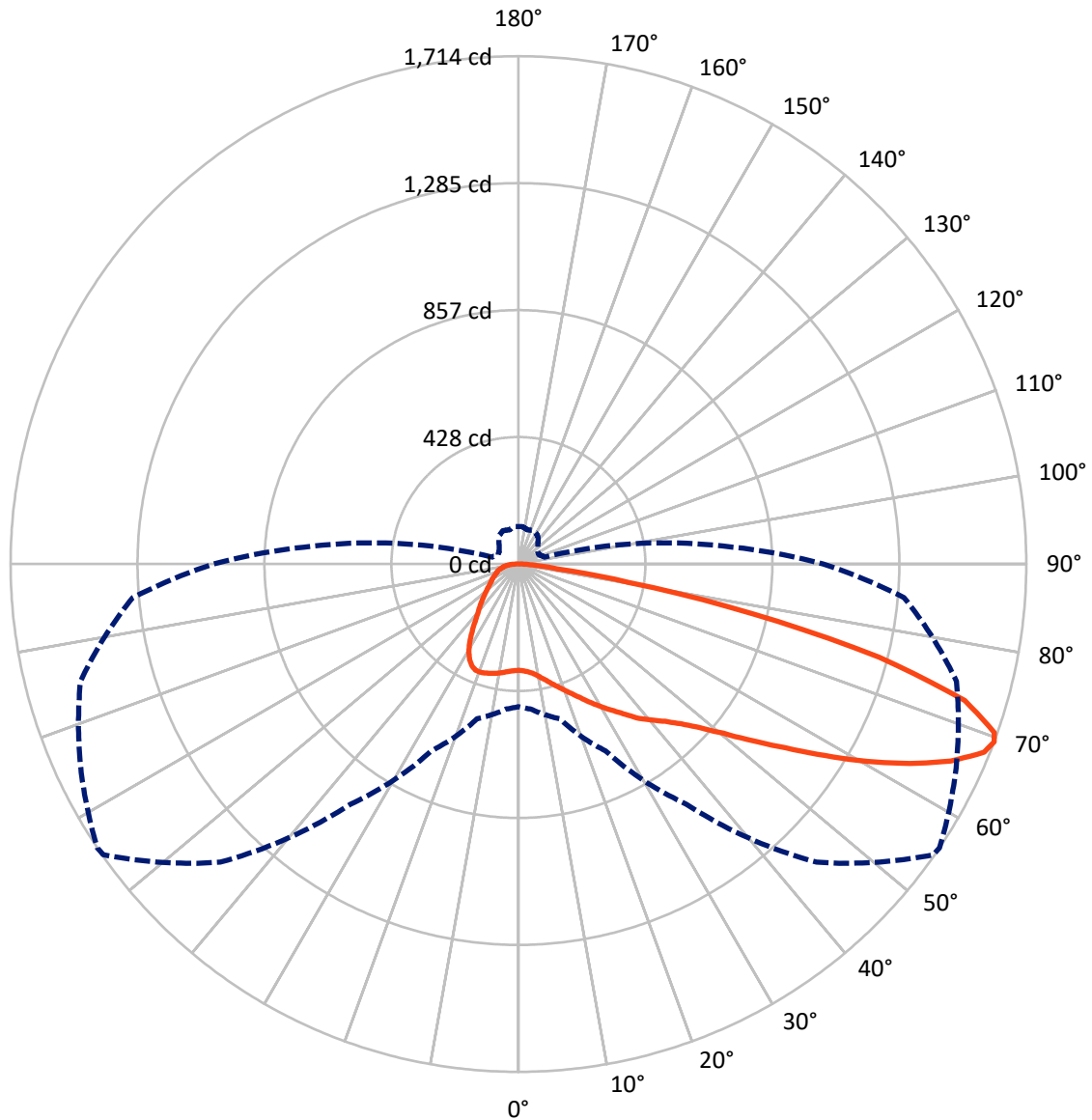


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type III - Short - Semi-Cutoff

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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	610.9	0.0	610.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	2132.1	0.0	2132.1
	% Fixture	77.7	0.0	77.7
Total	Lumens	2743.0	0.0	2743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	1.3
10°-20°	113.3	4.1
20°-30°	197.7	7.2
30°-40°	284.0	10.4
40°-50°	393.0	14.3
50°-60°	575.8	21.0
60°-70°	702.1	25.6
70°-80°	388.1	14.2
80°-90°	53.8	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°	2743.0	100.0
0°-180°	2743.0	100.0

Coefficient of Utilization



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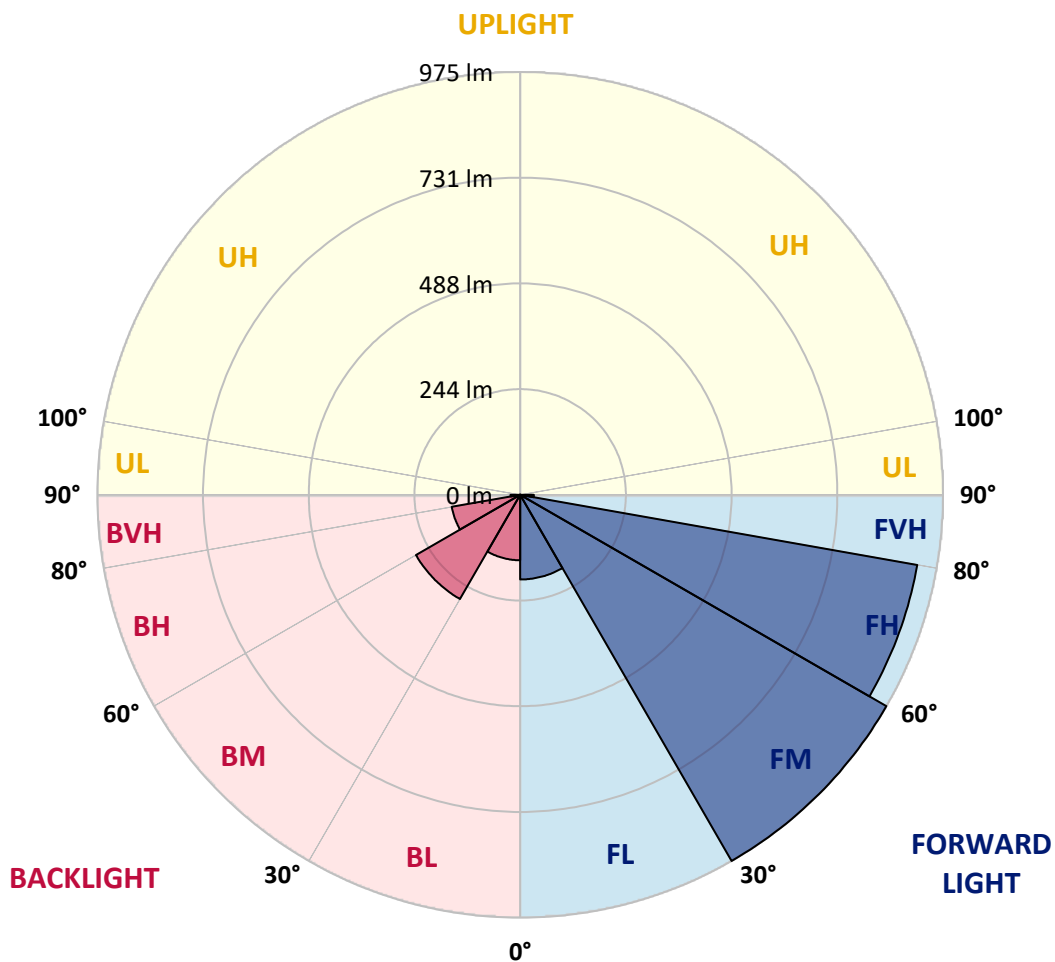
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	195.2	7.1			
FM	(30°-60°)	975.2	35.6			
FH	(60°-80°)	930.0	33.9			G1/1800
FVH	(80°-90°)	31.7	1.2			G1/100
BL	(0°-30°)	151.0	5.5	B1/500		
BM	(30°-60°)	277.6	10.1	B1/1000		
BH	(60°-80°)	160.2	5.8	B1/500		G1/500
BVH	(80°-90°)	22.1	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6
2.5°	360.9	361.3	361.0	361.7	360.9	361.4	361.0	361.0	360.7	359.8	358.9
5°	366.5	367.3	366.8	367.6	366.5	366.7	365.9	365.9	365.0	363.2	361.3
7.5°	375.4	376.3	375.9	376.7	375.2	375.2	374.1	374.0	372.3	369.4	367.2
10°	386.0	387.1	386.8	387.9	386.8	387.1	386.0	386.0	383.7	379.6	376.8
12.5°	401.4	402.8	401.8	401.7	401.2	402.0	401.0	400.8	398.8	393.1	389.3
15°	422.0	423.5	421.4	421.2	418.5	418.2	418.2	417.9	416.6	409.8	403.6
17.5°	445.7	446.2	444.3	441.3	437.9	435.7	435.4	436.2	436.2	428.2	418.3
20°	469.0	469.8	468.3	464.9	460.6	457.4	455.1	456.6	456.5	447.1	433.0
22.5°	494.3	496.3	494.0	489.7	484.6	481.0	477.0	478.3	478.4	466.8	447.3
25°	527.1	525.3	523.9	517.7	510.5	506.8	503.1	504.4	504.0	488.1	462.2
27.5°	556.1	556.5	554.6	548.1	539.7	531.5	531.3	532.2	530.8	510.2	476.2
30°	589.8	590.0	587.4	581.5	572.4	561.9	559.4	560.8	557.8	531.2	490.9
32.5°	623.4	624.3	621.4	614.3	606.9	594.2	589.3	590.2	582.7	552.6	506.1
35°	652.8	654.1	653.1	648.4	640.4	629.4	623.6	623.0	613.6	578.9	526.2
37.5°	682.7	683.9	682.9	678.9	675.7	664.1	661.0	661.0	644.7	605.7	551.8
40°	713.5	715.4	714.2	708.7	706.0	700.7	693.2	691.4	673.8	637.9	593.6
42.5°	742.2	744.6	749.5	746.3	740.7	741.5	726.5	725.5	712.7	685.6	646.1
45°	782.8	786.4	794.7	792.2	791.1	786.9	769.1	768.2	763.3	749.6	711.2
47.5°	827.1	832.0	847.0	847.5	859.7	851.9	827.6	824.7	825.8	826.4	790.6
50°	867.9	873.3	898.0	909.6	938.3	940.0	901.2	898.5	903.0	916.0	883.2
52.5°	900.5	907.3	938.1	974.0	1023.3	1037.3	991.8	989.8	993.1	1015.6	987.9
55°	924.4	931.8	965.4	1030.7	1109.4	1134.0	1096.1	1094.2	1096.3	1125.0	1101.8
57.5°	930.0	931.8	980.5	1068.9	1182.0	1241.3	1223.8	1220.0	1209.8	1234.8	1227.5
60°	903.8	911.0	968.0	1082.3	1238.3	1347.0	1357.2	1352.5	1323.9	1344.3	1338.4
62.5°	850.7	863.6	921.4	1061.9	1260.3	1433.4	1488.1	1482.4	1433.1	1446.3	1418.2
65°	764.0	769.5	830.2	991.5	1232.3	1488.7	1604.8	1602.0	1539.9	1519.2	1432.9
67.5°	608.8	619.1	670.7	844.4	1117.9	1482.1	1695.0	1694.8	1609.6	1546.2	1380.7
69°	481.0	491.7	540.8	695.6	989.2	1422.5	1710.2	1713.5	1629.3	1529.8	1306.0
70°	383.5	395.8	429.6	585.9	874.9	1343.9	1697.6	1703.5	1625.5	1502.6	1237.1
72.5°	163.2	173.2	197.2	302.0	533.2	1003.5	1552.2	1574.7	1537.9	1375.3	1022.4
75°	71.2	74.4	85.2	123.1	236.7	546.2	1216.0	1257.5	1315.0	1162.5	761.6
77.5°	52.2	53.5	59.4	72.3	106.2	206.3	781.9	806.1	948.3	845.9	467.2
80°	40.3	41.3	45.9	53.1	69.4	83.4	356.6	377.4	533.2	434.5	194.6
82.5°	32.1	32.8	36.0	39.1	47.9	50.6	118.4	131.3	196.8	120.0	51.5
85°	29.9	30.6	31.8	28.5	30.7	29.7	51.2	53.6	59.4	47.2	21.5
87.5°	13.5	16.0	31.5	22.2	16.3	13.0	21.0	21.9	24.7	24.8	9.5
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°	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6
2.5°	359.5	359.2	359.6	358.5	359.9	359.8	359.4	359.6	360.5	360.4	360.5
5°	361.6	361.4	362.0	361.2	362.9	363.4	363.5	364.4	365.4	365.7	365.7
7.5°	367.1	367.1	367.4	366.3	367.4	367.3	366.8	367.7	368.7	368.8	368.7
10°	376.6	376.7	376.2	373.3	372.3	369.8	367.4	367.5	368.8	369.9	370.1
12.5°	388.5	388.1	386.0	380.6	376.7	371.5	369.0	368.9	370.2	371.1	371.4
15°	402.1	401.0	395.6	386.9	379.9	374.8	370.8	369.9	369.1	368.1	368.2
17.5°	414.9	412.6	403.6	391.4	384.0	377.2	369.6	363.4	359.2	356.7	356.0
20°	428.0	423.3	410.4	395.6	386.3	373.9	359.2	346.7	339.0	335.4	334.7
22.5°	439.9	432.4	416.7	400.1	384.5	362.8	339.6	321.5	310.7	305.9	306.3
25°	451.5	441.1	423.3	403.2	375.4	343.1	312.4	290.1	277.6	272.2	272.0
27.5°	461.7	449.9	430.5	400.7	358.5	315.1	280.2	258.4	248.0	243.4	242.7
30°	473.4	460.9	440.1	390.9	333.8	282.8	248.7	233.4	226.0	221.4	220.5
32.5°	487.7	476.0	447.9	373.3	302.1	249.1	224.1	213.5	206.8	201.6	200.6
35°	508.5	495.8	449.9	347.9	267.3	222.4	206.1	195.1	186.1	179.4	178.7
37.5°	534.6	520.7	445.4	315.1	233.6	205.1	191.1	177.6	165.7	156.3	154.8
40°	572.2	551.2	432.8	277.3	208.7	191.8	176.4	161.0	146.4	135.3	133.1
42.5°	617.3	587.0	413.5	239.7	190.5	178.3	161.9	142.8	128.8	121.0	119.8
45°	674.8	624.2	386.8	206.8	172.5	164.8	146.2	128.6	119.9	114.1	113.2
47.5°	740.4	666.0	358.7	180.1	157.3	152.1	133.6	122.3	115.4	110.8	110.0
50°	821.0	713.1	328.9	158.2	142.0	136.9	127.7	118.8	113.3	109.8	109.0
52.5°	911.9	766.3	307.5	140.9	129.4	125.7	124.5	116.9	112.4	109.8	109.0
55°	1009.8	820.5	284.3	126.3	118.4	119.4	122.5	117.1	114.1	110.8	109.6
57.5°	1107.8	876.4	258.5	114.1	109.7	114.8	121.0	117.5	114.9	111.8	110.7
60°	1185.2	911.9	218.6	103.8	102.8	109.7	117.6	114.6	111.3	111.4	111.2
62.5°	1221.4	910.0	174.4	94.6	95.9	102.8	112.2	110.2	107.4	111.1	111.4
65°	1201.1	864.6	135.8	86.3	88.5	95.6	106.5	108.0	109.0	116.0	117.0
67.5°	1115.9	776.4	105.2	79.0	81.8	90.7	107.1	117.6	118.9	126.3	126.2
69°	1027.7	693.6	91.4	75.2	78.5	91.9	114.4	123.8	119.2	127.1	126.0
70°	953.8	628.1	84.0	72.7	77.0	94.1	119.3	123.7	117.7	124.5	122.7
72.5°	734.6	451.9	71.2	67.9	71.9	90.1	120.8	121.0	114.4	115.8	112.5
75°	503.8	285.6	62.2	61.5	64.2	81.2	116.2	115.6	105.8	103.9	101.3
77.5°	277.8	145.0	52.8	55.4	57.2	71.9	105.6	104.7	96.7	92.7	91.8
80°	107.2	63.5	44.6	49.2	50.4	62.3	92.6	91.8	85.0	79.9	78.5
82.5°	40.4	33.3	36.9	42.6	42.2	51.4	78.4	78.0	71.4	64.0	61.7
85°	18.7	19.9	29.2	35.2	32.4	38.1	62.7	63.6	55.7	46.8	46.8
87.5°	7.9	11.2	20.7	26.6	21.8	25.7	46.0	43.9	40.3	28.0	26.3
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)