

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: P348625

Luminaire Tested: **ARCH-N-PA1-19-830-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348625  
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-PA1-19-830-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 370mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2394 lumens  
Efficiency: N/A  
Efficacy: 126.0 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

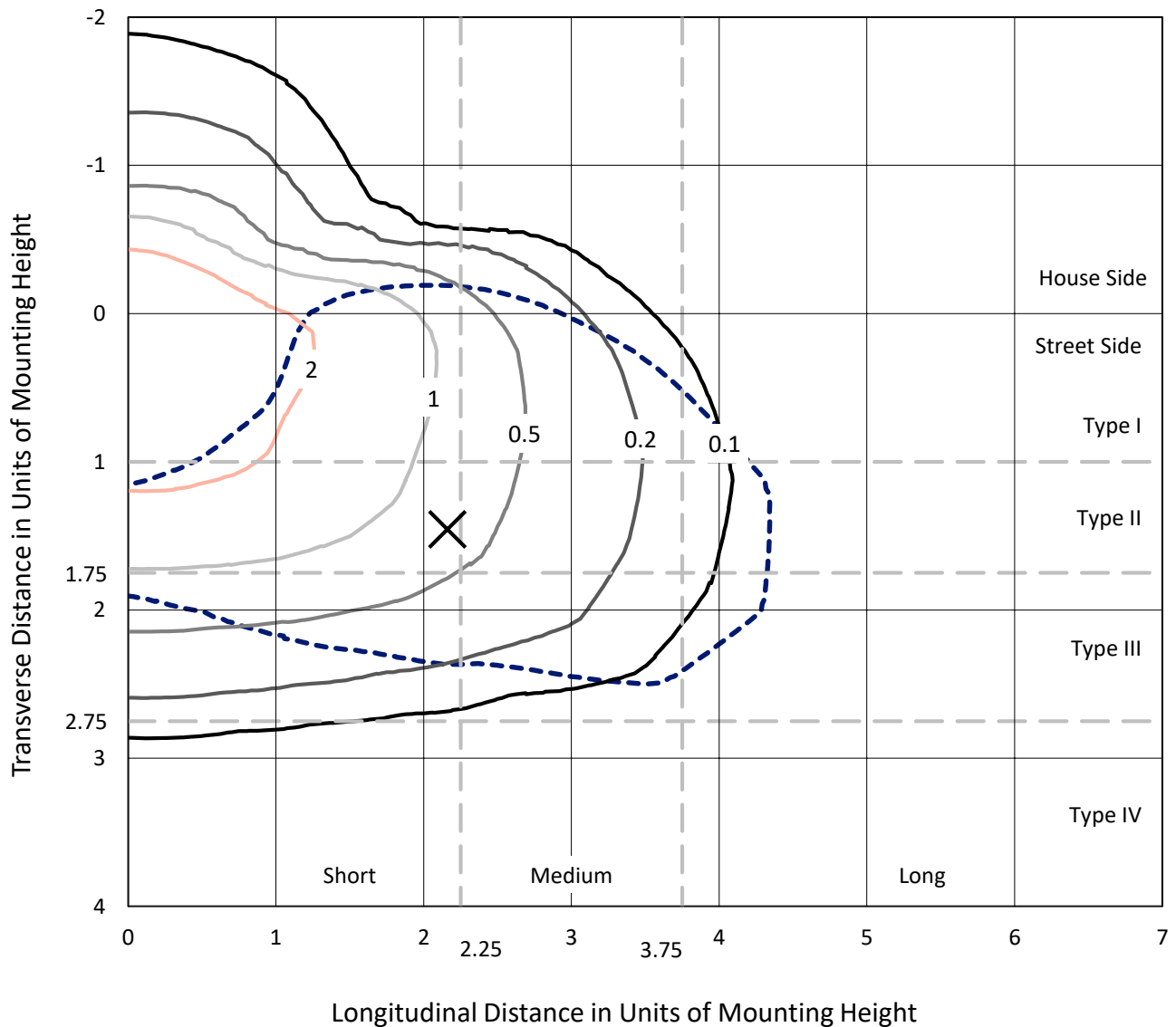
Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

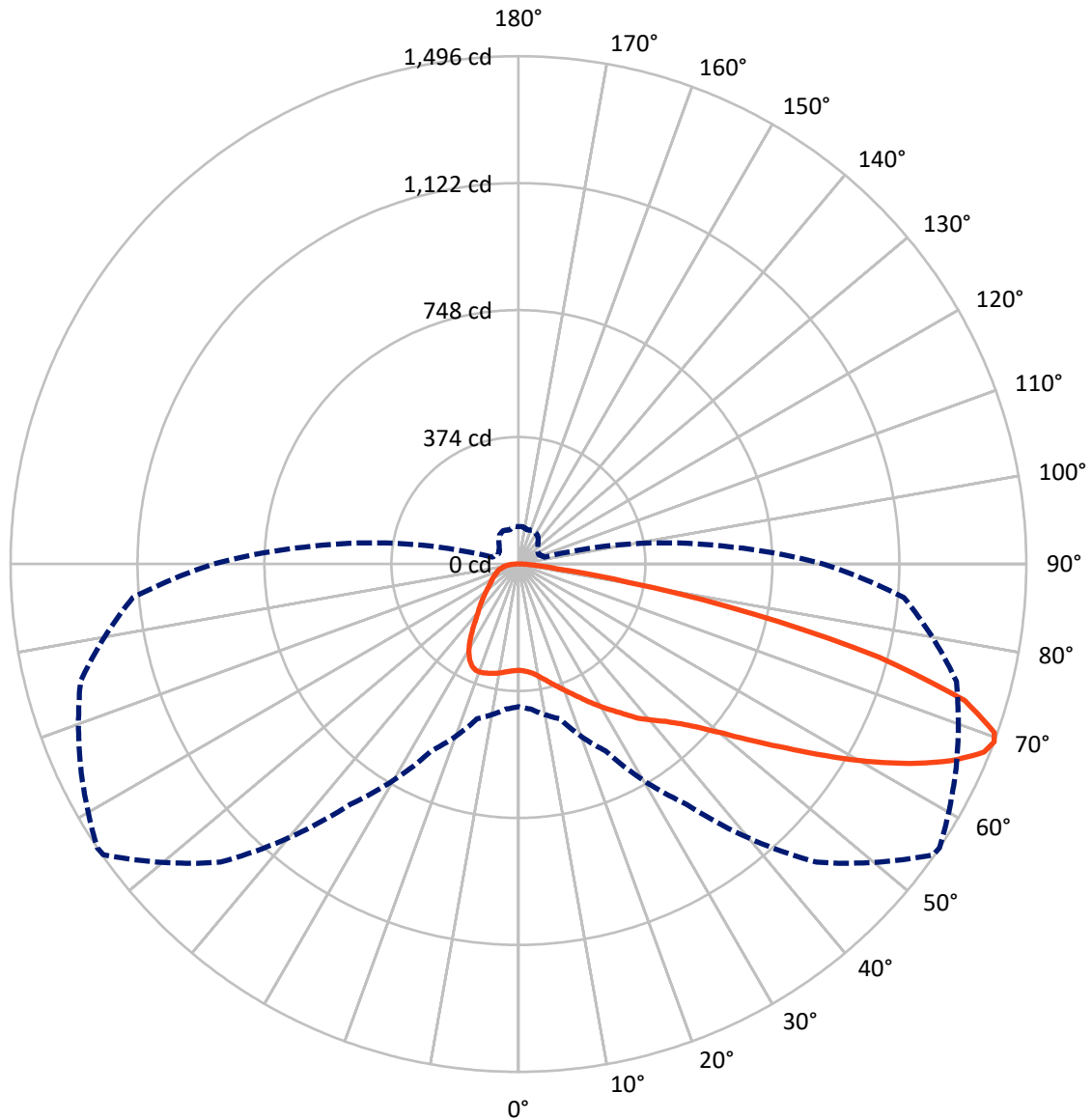


Based on 10 foot mounting height. Maximum calculated value = 3.4 fc  
 Type III - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	533.1	0.0	533.1
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	1860.9	0.0	1860.9
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	2394.0	0.0	2394.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.7	1.3
10°-20°	98.8	4.1
20°-30°	172.5	7.2
30°-40°	247.9	10.4
40°-50°	343.0	14.3
50°-60°	502.6	21.0
60°-70°	612.7	25.6
70°-80°	338.8	14.2
80°-90°	46.9	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°	2394.0	100.0
0°-180°	2394.0	100.0



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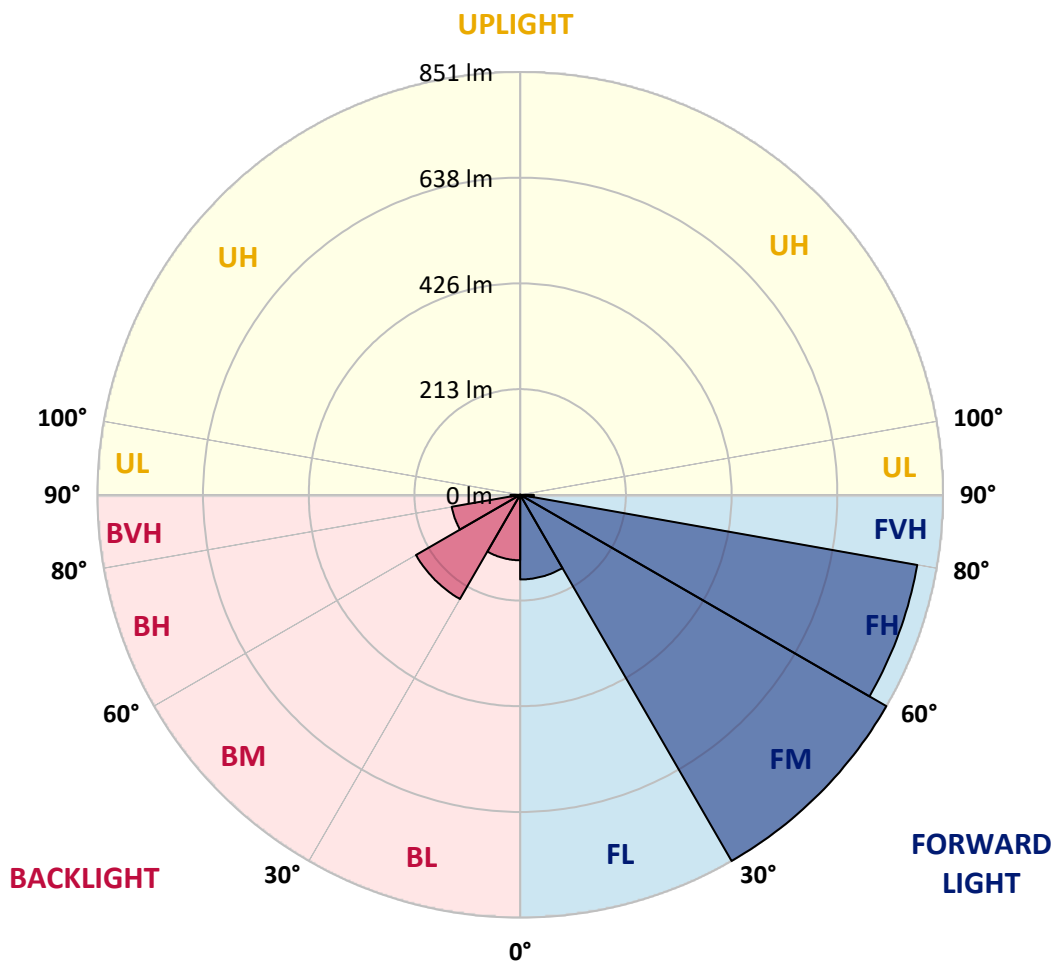
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	170.4	7.1			
FM	(30°-60°)	851.1	35.6			
FH	(60°-80°)	811.7	33.9			G1/1800
FVH	(80°-90°)	27.6	1.2			G1/100
BL	(0°-30°)	131.8	5.5	B1/500		
BM	(30°-60°)	242.3	10.1	B1/1000		
BH	(60°-80°)	139.8	5.8	B1/500		G1/500
BVH	(80°-90°)	19.3	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°	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0
2.5°	315.0	315.3	315.0	315.7	315.0	315.5	315.0	315.0	314.8	314.1	313.2
5°	319.9	320.6	320.2	320.8	319.9	320.1	319.3	319.3	318.6	317.0	315.4
7.5°	327.7	328.4	328.1	328.7	327.5	327.5	326.5	326.4	324.9	322.4	320.5
10°	336.9	337.9	337.6	338.5	337.6	337.9	336.9	336.9	334.9	331.3	328.9
12.5°	350.3	351.6	350.7	350.6	350.2	350.8	350.0	349.8	348.0	343.1	339.8
15°	368.3	369.6	367.7	367.6	365.3	365.0	365.0	364.8	363.6	357.7	352.2
17.5°	389.0	389.4	387.8	385.1	382.2	380.3	380.0	380.7	380.7	373.8	365.1
20°	409.3	410.0	408.7	405.8	402.0	399.2	397.2	398.5	398.4	390.2	377.9
22.5°	431.4	433.1	431.2	427.4	422.9	419.8	416.3	417.5	417.6	407.4	390.4
25°	460.0	458.5	457.2	451.9	445.5	442.3	439.1	440.2	439.9	426.0	403.4
27.5°	485.3	485.7	484.0	478.3	471.0	463.9	463.7	464.5	463.2	445.3	415.6
30°	514.8	515.0	512.6	507.5	499.5	490.4	488.2	489.5	486.8	463.6	428.4
32.5°	544.1	544.9	542.3	536.1	529.7	518.6	514.3	515.1	508.5	482.3	441.7
35°	569.7	570.9	570.0	565.9	558.9	549.3	544.2	543.7	535.6	505.2	459.3
37.5°	595.9	596.9	596.0	592.6	589.8	579.6	576.9	576.9	562.7	528.6	481.6
40°	622.7	624.4	623.3	618.5	616.1	611.5	605.0	603.4	588.1	556.8	518.1
42.5°	647.7	649.9	654.2	651.4	646.5	647.2	634.0	633.2	622.0	598.3	563.9
45°	683.2	686.3	693.6	691.4	690.5	686.8	671.2	670.5	666.2	654.2	620.7
47.5°	721.9	726.2	739.3	739.7	750.3	743.5	722.3	719.7	720.7	721.2	690.0
50°	757.5	762.2	783.7	793.9	818.9	820.4	786.5	784.2	788.1	799.5	770.9
52.5°	786.0	791.9	818.8	850.1	893.1	905.3	865.6	863.9	866.8	886.4	862.2
55°	806.8	813.3	842.5	899.6	968.2	989.7	956.7	955.0	956.8	981.8	961.6
57.5°	811.7	813.3	855.7	932.9	1031.6	1083.3	1068.1	1064.8	1055.9	1077.7	1071.3
60°	788.8	795.1	844.8	944.6	1080.7	1175.6	1184.5	1180.4	1155.4	1173.2	1168.1
62.5°	742.5	753.7	804.2	926.8	1099.9	1251.0	1298.8	1293.8	1250.8	1262.3	1237.7
65°	666.8	671.6	724.6	865.4	1075.5	1299.3	1400.6	1398.1	1344.0	1325.9	1250.6
67.5°	531.4	540.4	585.4	737.0	975.6	1293.6	1479.4	1479.1	1404.8	1349.5	1205.0
69°	419.8	429.1	472.0	607.1	863.3	1241.5	1492.6	1495.5	1422.0	1335.1	1139.8
70°	334.7	345.5	374.9	511.3	763.6	1172.9	1481.6	1486.8	1418.7	1311.5	1079.7
72.5°	142.4	151.2	172.1	263.6	465.4	875.8	1354.7	1374.3	1342.2	1200.3	892.3
75°	62.2	64.9	74.4	107.5	206.6	476.7	1061.2	1097.5	1147.7	1014.6	664.7
77.5°	45.5	46.7	51.9	63.1	92.7	180.0	682.5	703.6	827.7	738.3	407.7
80°	35.2	36.0	40.1	46.3	60.5	72.8	311.2	329.4	465.4	379.2	169.8
82.5°	28.0	28.6	31.4	34.1	41.8	44.1	103.3	114.6	171.8	104.7	44.9
85°	26.1	26.7	27.7	24.9	26.8	25.9	44.7	46.8	51.9	41.2	18.8
87.5°	11.8	13.9	27.5	19.4	14.3	11.4	18.3	19.1	21.5	21.6	8.3
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°	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0
2.5°	313.7	313.5	313.9	312.9	314.1	314.1	313.6	313.8	314.6	314.5	314.6
5°	315.6	315.5	315.9	315.2	316.7	317.2	317.3	318.0	318.9	319.2	319.2
7.5°	320.4	320.4	320.6	319.7	320.6	320.6	320.2	320.9	321.8	321.9	321.8
10°	328.6	328.7	328.3	325.8	324.9	322.7	320.6	320.7	321.9	322.8	323.0
12.5°	339.0	338.7	336.9	332.2	328.7	324.2	322.1	322.0	323.1	323.9	324.1
15°	350.9	350.0	345.3	337.6	331.5	327.1	323.6	322.8	322.1	321.3	321.4
17.5°	362.1	360.1	352.2	341.6	335.2	329.2	322.5	317.2	313.5	311.3	310.7
20°	373.5	369.5	358.2	345.3	337.1	326.3	313.5	302.6	295.8	292.7	292.1
22.5°	383.9	377.4	363.7	349.2	335.6	316.6	296.4	280.6	271.2	267.0	267.3
25°	394.0	385.0	369.5	351.9	327.7	299.5	272.7	253.2	242.3	237.6	237.4
27.5°	403.0	392.6	375.7	349.7	312.9	275.0	244.5	225.6	216.5	212.4	211.8
30°	413.2	402.3	384.1	341.2	291.3	246.8	217.1	203.7	197.3	193.2	192.5
32.5°	425.6	415.4	390.9	325.8	263.7	217.4	195.6	186.3	180.4	175.9	175.1
35°	443.8	432.7	392.6	303.7	233.3	194.1	179.9	170.3	162.4	156.5	156.0
37.5°	466.5	454.4	388.7	275.0	203.9	179.0	166.8	155.0	144.7	136.4	135.1
40°	499.4	481.1	377.7	242.1	182.2	167.4	154.0	140.5	127.7	118.1	116.2
42.5°	538.8	512.3	360.9	209.2	166.3	155.6	141.3	124.6	112.4	105.6	104.6
45°	588.9	544.8	337.6	180.5	150.6	143.8	127.6	112.2	104.7	99.6	98.8
47.5°	646.2	581.3	313.1	157.2	137.3	132.8	116.6	106.7	100.7	96.7	96.0
50°	716.5	622.4	287.1	138.1	124.0	119.5	111.4	103.7	98.9	95.8	95.1
52.5°	795.9	668.8	268.4	123.0	112.9	109.7	108.7	102.0	98.1	95.8	95.1
55°	881.3	716.1	248.2	110.3	103.3	104.2	106.9	102.2	99.5	96.7	95.7
57.5°	966.8	764.9	225.6	99.5	95.7	100.2	105.6	102.5	100.3	97.6	96.6
60°	1034.4	795.9	190.8	90.6	89.7	95.7	102.7	100.0	97.2	97.2	97.1
62.5°	1066.0	794.2	152.2	82.6	83.7	89.7	97.9	96.2	93.8	97.0	97.2
65°	1048.3	754.6	118.5	75.3	77.3	83.5	92.9	94.3	95.1	101.3	102.1
67.5°	973.9	677.6	91.8	68.9	71.4	79.2	93.4	102.7	103.7	110.3	110.2
69°	897.0	605.3	79.7	65.6	68.5	80.2	99.9	108.0	104.0	110.9	109.9
70°	832.5	548.2	73.3	63.4	67.2	82.1	104.2	108.0	102.8	108.7	107.0
72.5°	641.1	394.4	62.2	59.3	62.8	78.6	105.4	105.6	99.9	101.0	98.2
75°	439.7	249.2	54.3	53.7	56.0	70.8	101.4	100.9	92.4	90.7	88.4
77.5°	242.5	126.6	46.1	48.3	49.9	62.8	92.2	91.4	84.4	80.9	80.1
80°	93.5	55.4	38.9	43.0	44.0	54.3	80.8	80.1	74.2	69.8	68.5
82.5°	35.3	29.0	32.2	37.2	36.9	44.9	68.5	68.0	62.3	55.8	53.9
85°	16.3	17.4	25.5	30.7	28.3	33.2	54.8	55.5	48.6	40.8	40.8
87.5°	6.9	9.7	18.1	23.2	19.1	22.4	40.2	38.3	35.2	24.4	22.9
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)