

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: P348582

Luminaire Tested: **ARCH-N-PA1-10-727-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P348582  
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-PA1-10-727-U-T3  
Description: ARCHEON ROADWAY AND AREA LUMINAIRE  
(1) 70 CRI, 2700K, 270mA LIGHT ENGINE WITH 16 LEDS AND  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1878 lumens  
Efficiency: N/A  
Efficacy: 134.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B0 - 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

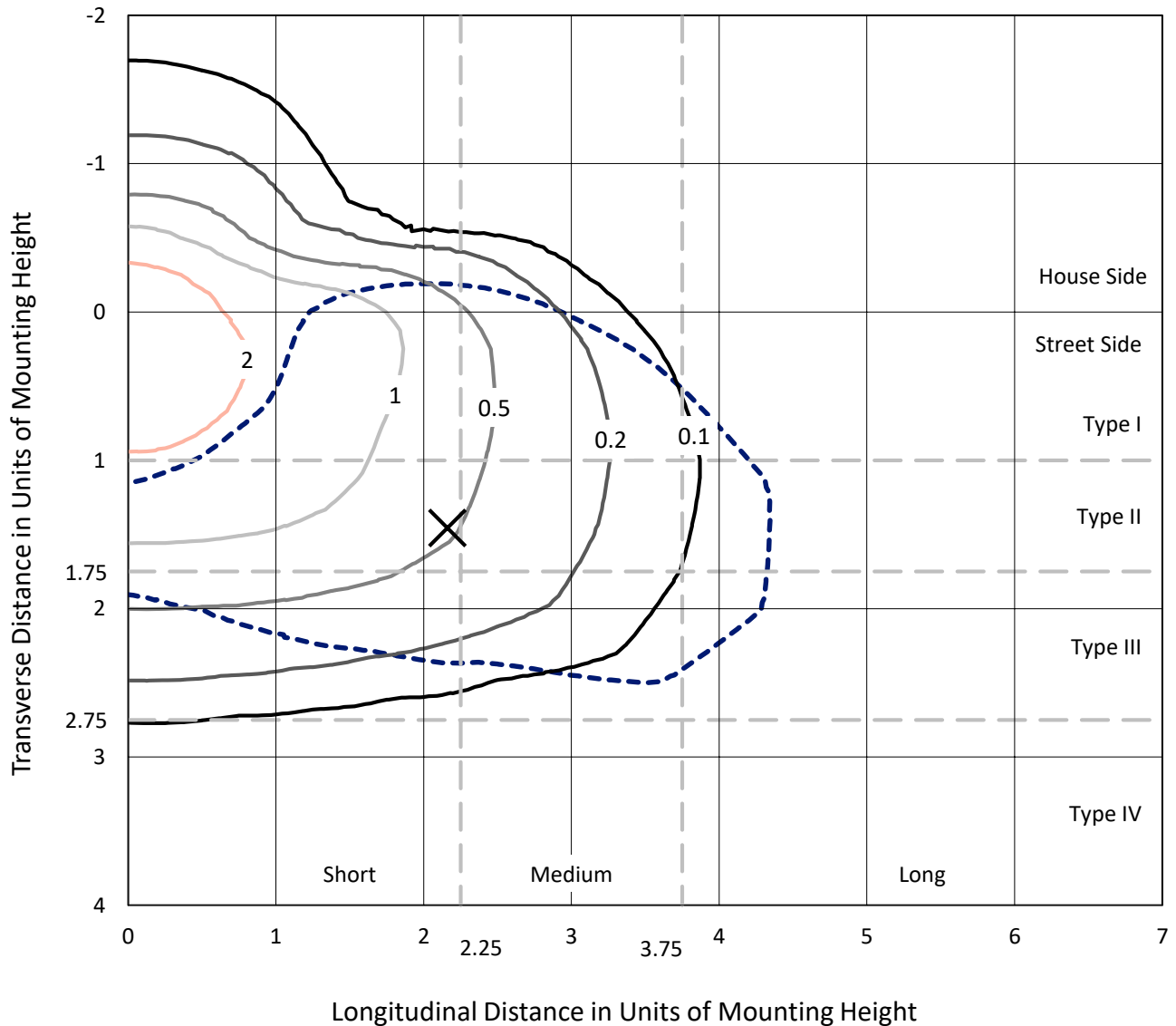


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

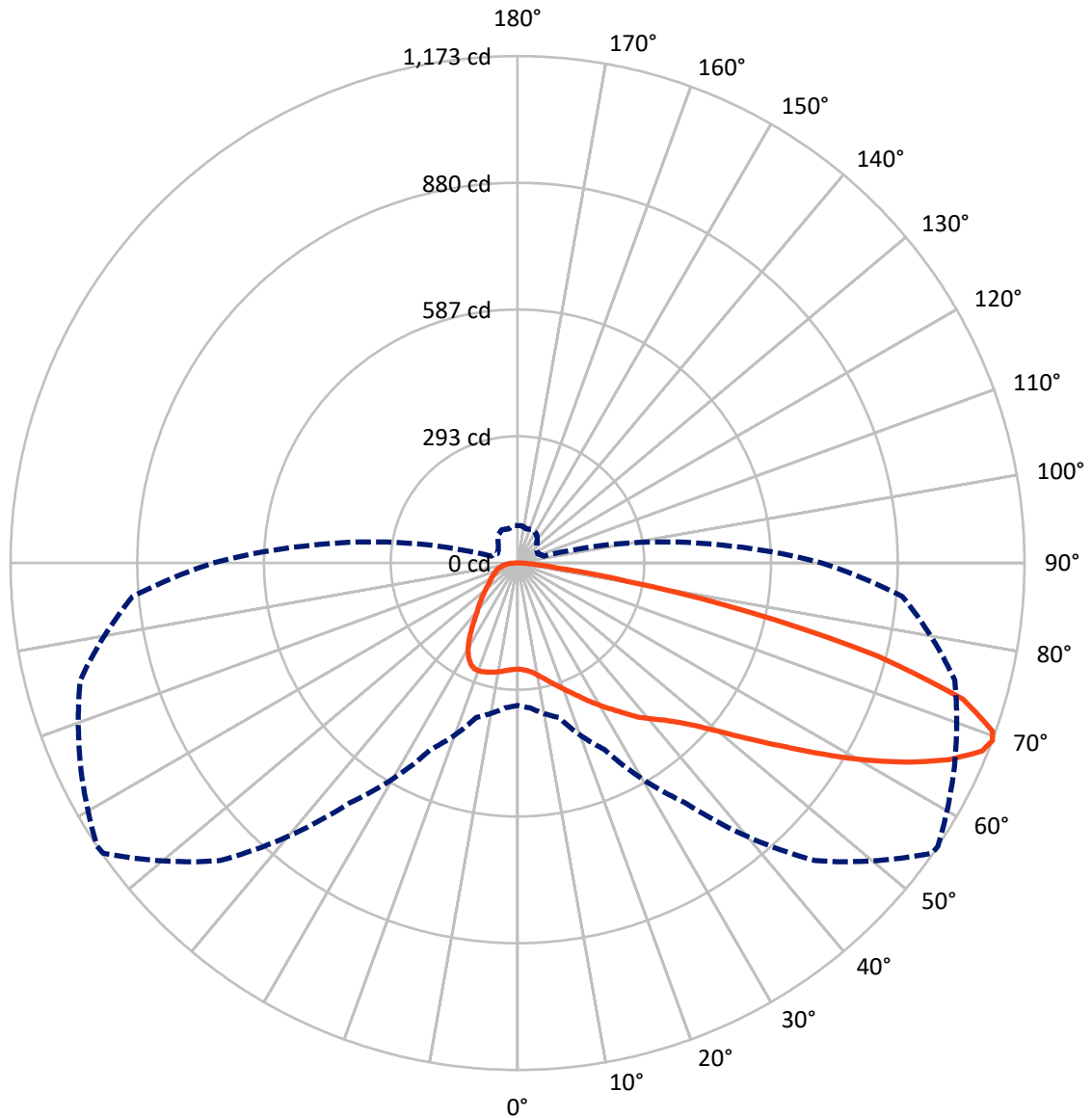


Based on 10 foot mounting height. Maximum calculated value = 2.7 fc  
 Type III - Short - Semi-Cutoff

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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	418.2	0.0	418.2
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	1459.8	0.0	1459.8
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	1878.0	0.0	1878.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.1	1.3
10°-20°	77.5	4.1
20°-30°	135.4	7.2
30°-40°	194.4	10.4
40°-50°	269.1	14.3
50°-60°	394.3	21.0
60°-70°	480.7	25.6
70°-80°	265.7	14.2
80°-90°	36.8	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°	1878.0	100.0
0°-180°	1878.0	100.0



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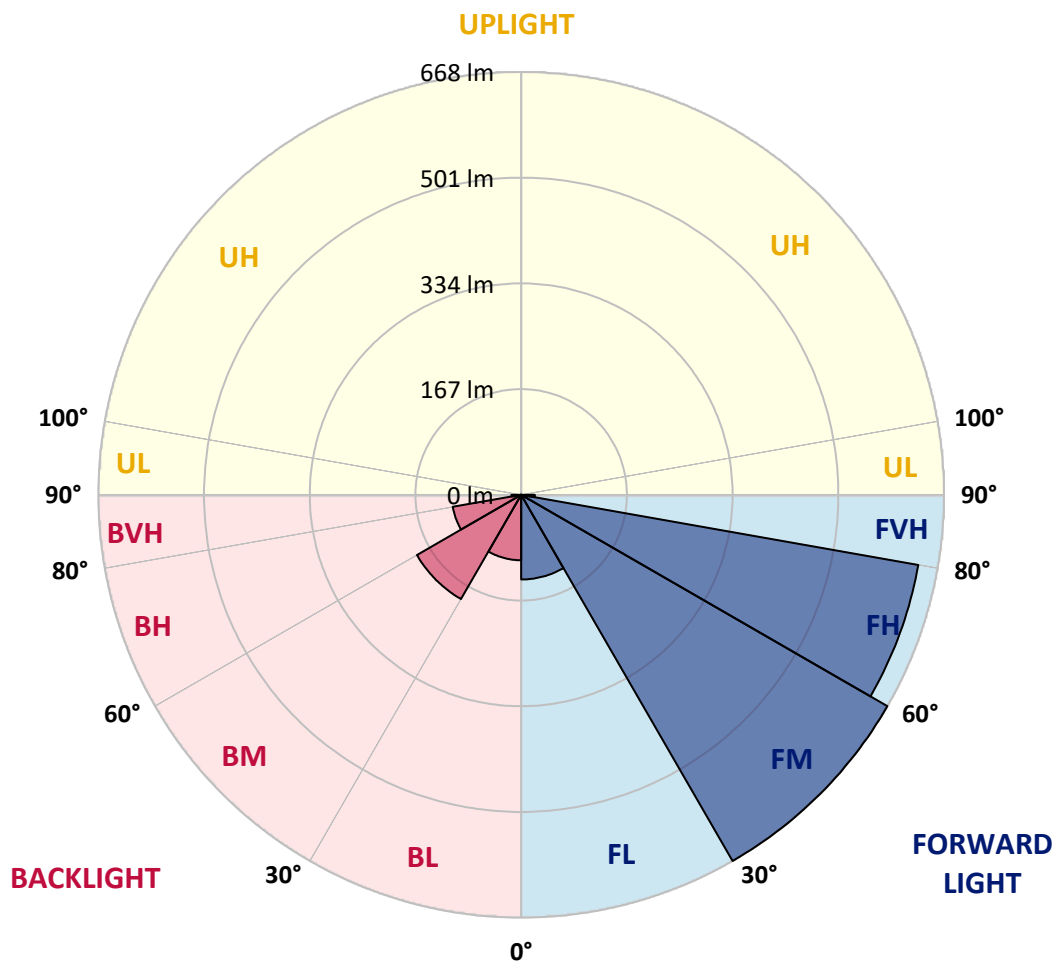
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	133.7	7.1			
FM	(30°-60°)	667.7	35.6			
FH	(60°-80°)	636.7	33.9			G0/660
FVH	(80°-90°)	21.7	1.2			G1/100
BL	(0°-30°)	103.4	5.5	B0/110		
BM	(30°-60°)	190.1	10.1	B0/220		
BH	(60°-80°)	109.7	5.8	B0/110		G0/110
BVH	(80°-90°)	15.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5
2.5°	247.1	247.3	247.1	247.7	247.1	247.5	247.1	247.1	246.9	246.4	245.7
5°	251.0	251.5	251.1	251.7	251.0	251.1	250.5	250.5	249.9	248.7	247.4
7.5°	257.0	257.6	257.4	257.9	256.9	256.9	256.1	256.1	254.9	252.9	251.4
10°	264.3	265.1	264.8	265.6	264.8	265.1	264.3	264.3	262.7	259.9	258.0
12.5°	274.8	275.8	275.1	275.0	274.7	275.2	274.6	274.4	273.0	269.1	266.5
15°	288.9	290.0	288.5	288.3	286.5	286.3	286.3	286.1	285.2	280.6	276.3
17.5°	305.2	305.5	304.2	302.1	299.8	298.3	298.1	298.6	298.6	293.2	286.4
20°	321.1	321.7	320.6	318.3	315.3	313.1	311.6	312.6	312.5	306.1	296.4
22.5°	338.4	339.8	338.2	335.3	331.8	329.3	326.6	327.5	327.6	319.6	306.3
25°	360.9	359.6	358.7	354.5	349.5	347.0	344.4	345.3	345.1	334.2	316.4
27.5°	380.7	381.0	379.7	375.2	369.5	363.9	363.8	364.4	363.4	349.3	326.0
30°	403.8	404.0	402.1	398.1	391.9	384.7	383.0	384.0	381.9	363.7	336.1
32.5°	426.8	427.4	425.4	420.6	415.5	406.8	403.4	404.1	398.9	378.3	346.5
35°	446.9	447.8	447.2	443.9	438.4	430.9	426.9	426.5	420.1	396.3	360.3
37.5°	467.4	468.3	467.6	464.8	462.6	454.7	452.5	452.5	441.4	414.7	377.8
40°	488.5	489.8	489.0	485.2	483.3	479.7	474.6	473.4	461.3	436.8	406.4
42.5°	508.1	509.8	513.2	511.0	507.1	507.7	497.4	496.7	487.9	469.4	442.3
45°	535.9	538.4	544.1	542.4	541.6	538.8	526.6	526.0	522.6	513.2	486.9
47.5°	566.3	569.6	579.9	580.3	588.6	583.2	566.6	564.6	565.4	565.8	541.3
50°	594.2	597.9	614.8	622.8	642.4	643.6	617.0	615.2	618.2	627.2	604.7
52.5°	616.6	621.2	642.3	666.9	700.6	710.2	679.0	677.7	680.0	695.3	676.4
55°	632.9	638.0	660.9	705.7	759.5	776.4	750.5	749.2	750.6	770.2	754.4
57.5°	636.7	638.0	671.3	731.8	809.3	849.8	837.9	835.3	828.3	845.4	840.4
60°	618.8	623.7	662.7	741.0	847.8	922.2	929.2	926.0	906.4	920.4	916.4
62.5°	582.5	591.3	630.8	727.1	862.8	981.4	1018.8	1014.9	981.2	990.2	971.0
65°	523.1	526.8	568.4	678.9	843.7	1019.2	1098.7	1096.8	1054.3	1040.1	981.0
67.5°	416.8	423.9	459.2	578.1	765.4	1014.8	1160.5	1160.3	1102.0	1058.6	945.3
69°	329.3	336.6	370.3	476.2	677.2	973.9	1170.9	1173.1	1115.5	1047.4	894.2
70°	262.5	271.0	294.1	401.1	599.0	920.1	1162.3	1166.3	1112.9	1028.8	847.0
72.5°	111.7	118.6	135.0	206.8	365.1	687.1	1062.7	1078.1	1052.9	941.6	700.0
75°	48.8	50.9	58.4	84.3	162.1	373.9	832.5	861.0	900.3	795.9	521.4
77.5°	35.7	36.6	40.7	49.5	72.7	141.2	535.4	551.9	649.3	579.2	319.9
80°	27.6	28.3	31.4	36.4	47.5	57.1	244.2	258.4	365.1	297.5	133.2
82.5°	22.0	22.4	24.6	26.8	32.8	34.6	81.1	89.9	134.8	82.2	35.3
85°	20.4	21.0	21.7	19.5	21.0	20.3	35.1	36.7	40.7	32.3	14.8
87.5°	9.3	10.9	21.5	15.2	11.2	8.9	14.4	15.0	16.9	17.0	6.5
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°	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5	245.5
2.5°	246.1	245.9	246.2	245.5	246.4	246.4	246.0	246.2	246.8	246.7	246.8
5°	247.6	247.5	247.8	247.3	248.4	248.8	248.9	249.5	250.2	250.4	250.4
7.5°	251.3	251.3	251.5	250.8	251.5	251.5	251.1	251.7	252.4	252.5	252.4
10°	257.8	257.9	257.6	255.5	254.9	253.2	251.5	251.6	252.5	253.2	253.4
12.5°	266.0	265.7	264.3	260.6	257.9	254.3	252.6	252.6	253.5	254.1	254.3
15°	275.3	274.6	270.9	264.9	260.1	256.6	253.9	253.2	252.7	252.1	252.1
17.5°	284.1	282.5	276.3	268.0	262.9	258.3	253.0	248.8	245.9	244.2	243.7
20°	293.0	289.8	281.0	270.9	264.5	256.0	245.9	237.4	232.1	229.6	229.2
22.5°	301.2	296.0	285.3	273.9	263.2	248.4	232.5	220.1	212.7	209.4	209.7
25°	309.1	302.0	289.8	276.1	257.0	234.9	213.9	198.6	190.1	186.4	186.3
27.5°	316.1	308.0	294.8	274.3	245.5	215.8	191.8	176.9	169.8	166.7	166.1
30°	324.1	315.6	301.3	267.6	228.5	193.6	170.3	159.8	154.8	151.6	151.0
32.5°	333.9	325.9	306.7	255.5	206.8	170.5	153.5	146.1	141.6	138.0	137.3
35°	348.1	339.5	308.0	238.2	183.0	152.3	141.1	133.6	127.4	122.8	122.3
37.5°	366.0	356.5	304.9	215.8	159.9	140.5	130.8	121.6	113.5	107.0	106.0
40°	391.7	377.4	296.3	189.9	142.9	131.3	120.8	110.2	100.2	92.6	91.2
42.5°	422.7	401.9	283.1	164.1	130.4	122.1	110.8	97.8	88.2	82.8	82.0
45°	462.0	427.4	264.8	141.6	118.1	112.8	100.1	88.1	82.1	78.2	77.5
47.5°	506.9	456.0	245.6	123.3	107.7	104.2	91.5	83.7	79.0	75.9	75.3
50°	562.1	488.3	225.2	108.3	97.2	93.7	87.4	81.3	77.6	75.2	74.6
52.5°	624.3	524.7	210.5	96.5	88.6	86.0	85.3	80.0	77.0	75.2	74.6
55°	691.3	561.8	194.7	86.5	81.1	81.8	83.8	80.2	78.1	75.9	75.0
57.5°	758.4	600.1	177.0	78.1	75.1	78.6	82.9	80.4	78.7	76.5	75.8
60°	811.5	624.3	149.6	71.0	70.4	75.1	80.5	78.5	76.2	76.3	76.1
62.5°	836.3	623.0	119.4	64.8	65.7	70.4	76.8	75.4	73.6	76.1	76.3
65°	822.3	592.0	93.0	59.1	60.6	65.5	72.9	73.9	74.6	79.4	80.1
67.5°	764.0	531.5	72.0	54.1	56.0	62.1	73.3	80.5	81.4	86.5	86.4
69°	703.6	474.9	62.6	51.5	53.8	62.9	78.3	84.8	81.6	87.0	86.2
70°	653.0	430.0	57.5	49.8	52.7	64.4	81.7	84.7	80.6	85.3	84.0
72.5°	502.9	309.4	48.8	46.5	49.2	61.7	82.7	82.8	78.3	79.3	77.1
75°	345.0	195.5	42.6	42.1	43.9	55.6	79.6	79.1	72.5	71.2	69.4
77.5°	190.2	99.3	36.2	37.9	39.1	49.2	72.3	71.7	66.2	63.5	62.8
80°	73.4	43.5	30.5	33.7	34.5	42.6	63.4	62.8	58.2	54.7	53.8
82.5°	27.7	22.8	25.2	29.2	28.9	35.2	53.7	53.4	48.9	43.8	42.2
85°	12.8	13.7	20.0	24.1	22.2	26.1	43.0	43.5	38.1	32.0	32.0
87.5°	5.4	7.6	14.2	18.2	14.9	17.6	31.5	30.1	27.6	19.1	18.0
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)