

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: P348645

Luminaire Tested: **ARCH-N-PA1-10-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P348645
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-PA1-10-730-U-T4W
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 270mA LIGHT ENGINE WITH 16 LEDS AND
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2045 lumens
Efficiency: N/A
Efficacy: 146.1 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

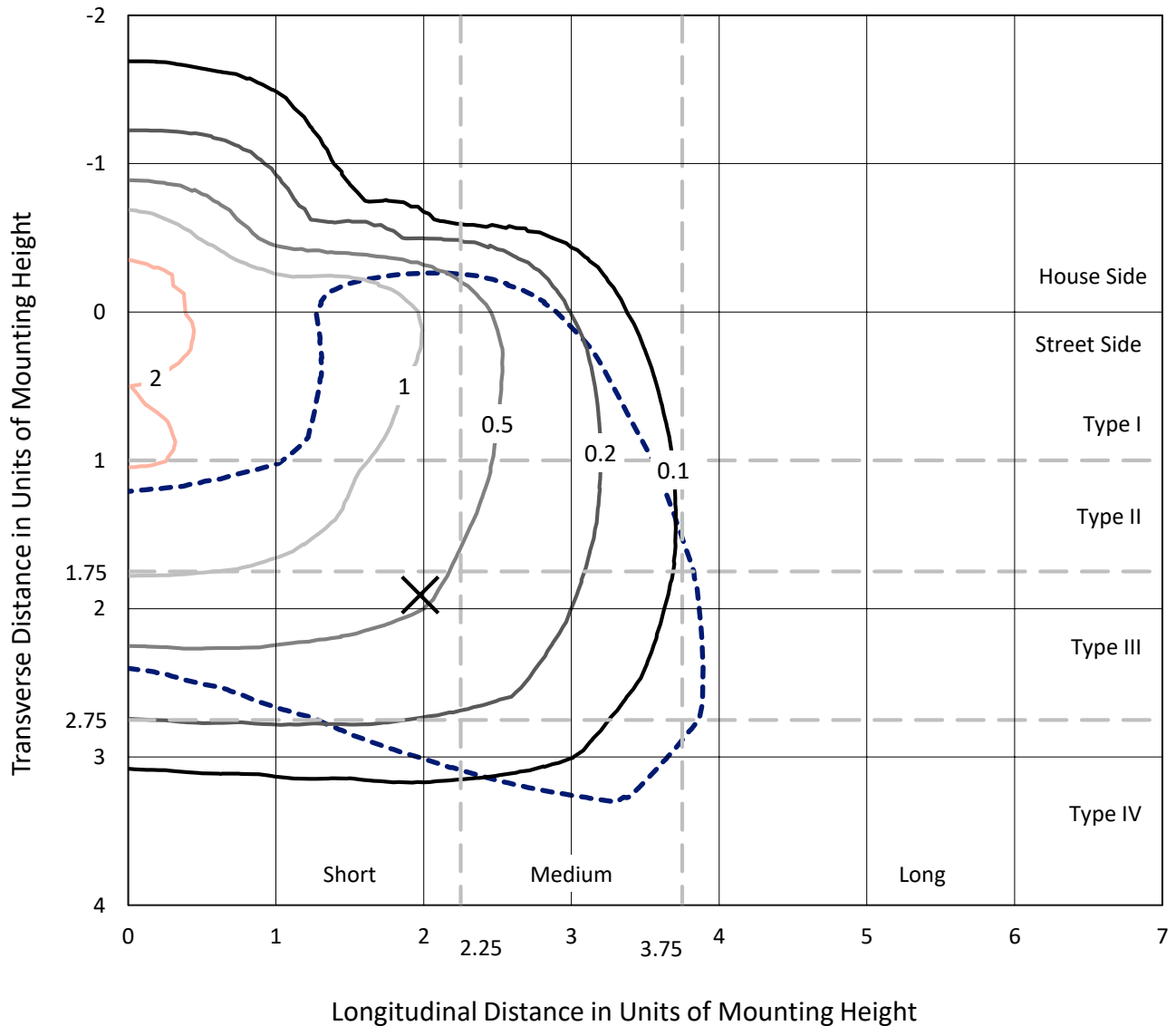
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

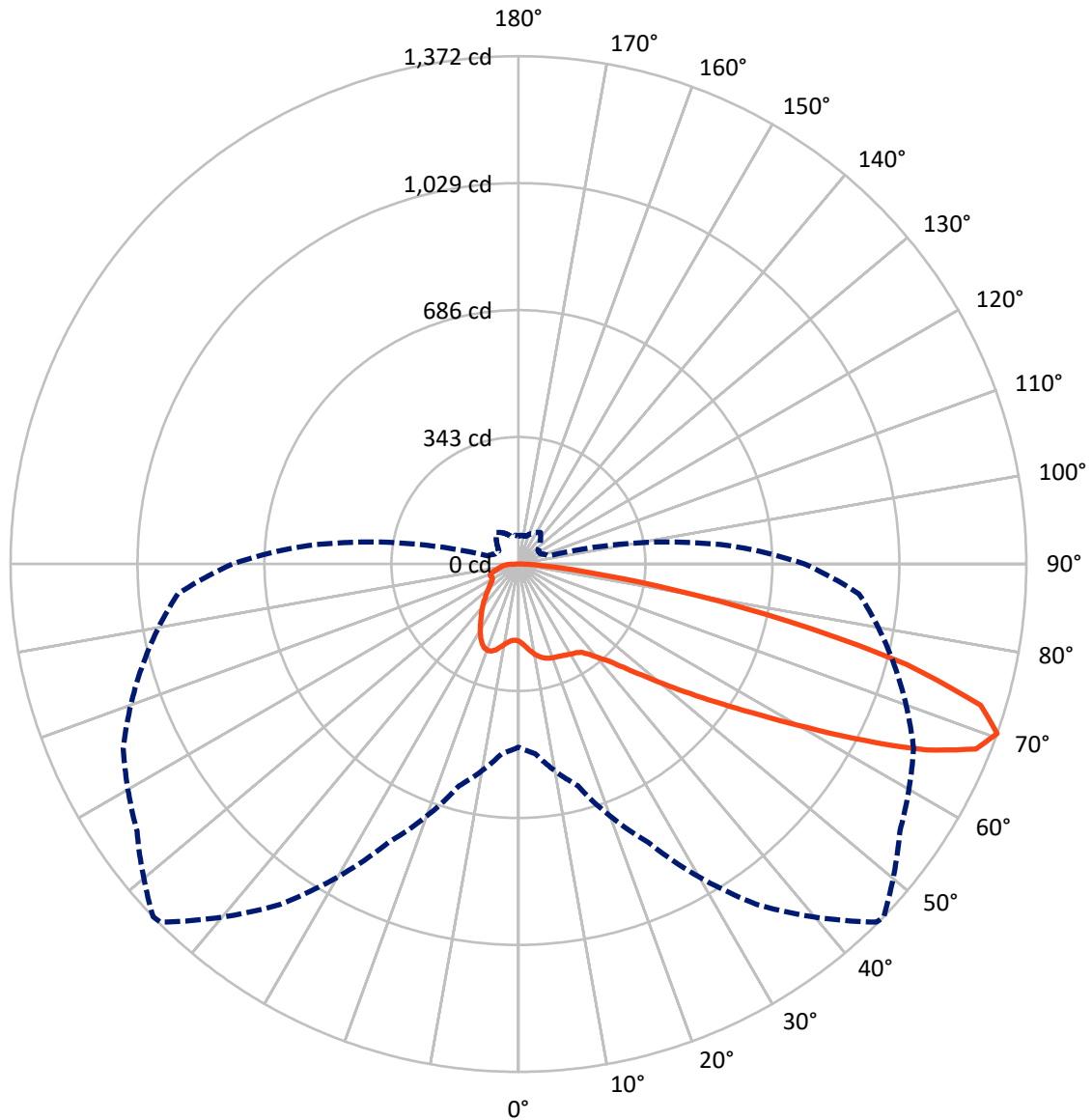
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 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	468.7	0.0	468.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	1576.3	0.0	1576.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	2045.0	0.0	2045.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	1.0
10°-20°	70.8	3.5
20°-30°	118.0	5.8
30°-40°	167.4	8.2
40°-50°	246.3	12.0
50°-60°	417.1	20.4
60°-70°	592.0	29.0
70°-80°	359.7	17.6
80°-90°	52.5	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°	2045.0	100.0
0°-180°	2045.0	100.0



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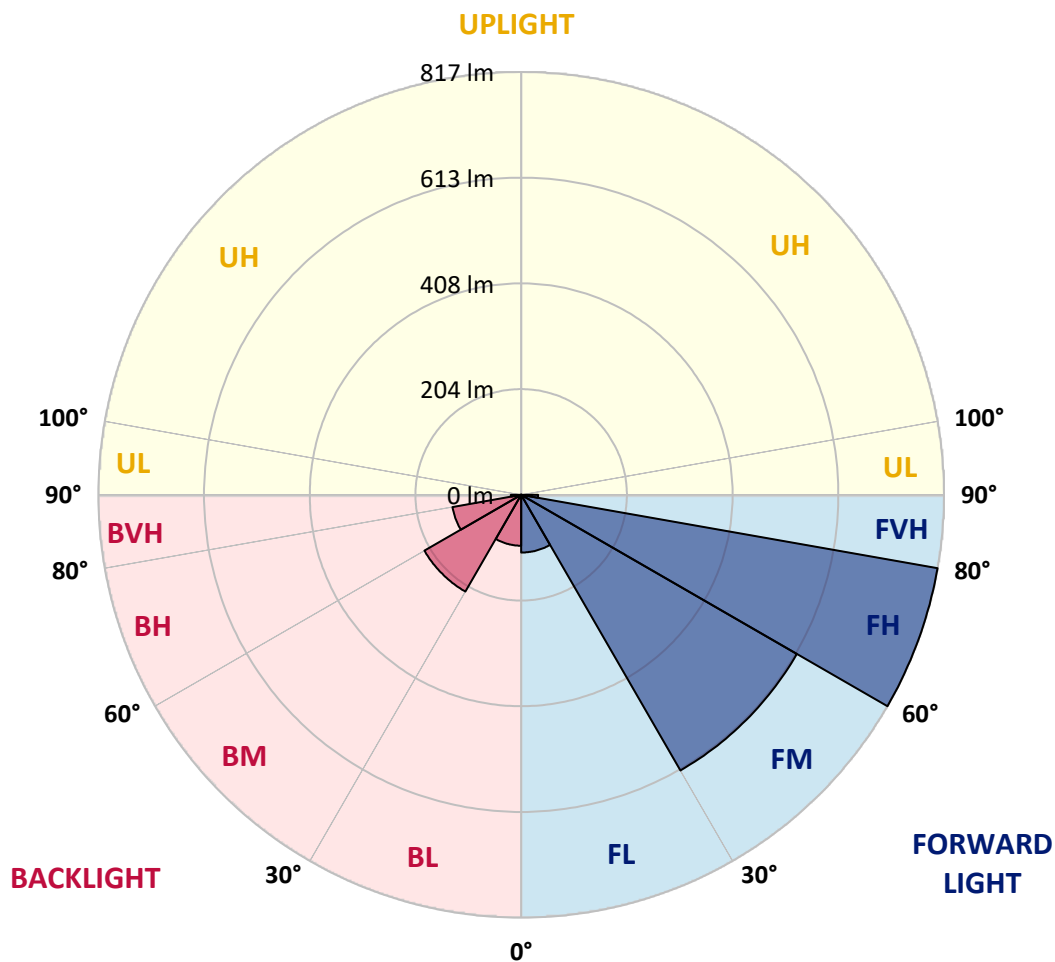
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	111.6	5.5			
FM	(30°-60°)	615.0	30.1			
FH	(60°-80°)	817.0	39.9			G1/1800
FVH	(80°-90°)	32.7	1.6			G1/100
BL	(0°-30°)	98.4	4.8	B0/110		
BM	(30°-60°)	215.8	10.6	B0/220		
BH	(60°-80°)	134.7	6.6	B1/500		G1/500
BVH	(80°-90°)	19.8	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°	208.3	208.3	208.3	208.3	208.3	208.3	208.3	208.3	208.3	208.3	208.3
2.5°	218.8	218.9	219.2	218.5	216.5	216.0	215.8	213.7	212.4	210.4	208.8
5°	236.3	236.4	236.0	234.0	229.7	226.5	226.2	221.6	217.4	212.9	209.5
7.5°	254.5	254.7	253.4	249.7	243.6	238.0	237.7	231.4	225.0	218.2	213.2
10°	270.7	269.9	267.7	262.5	255.3	248.4	248.2	241.6	234.2	226.1	219.3
12.5°	281.5	280.8	278.0	271.7	263.8	257.5	256.9	250.8	243.7	234.7	226.7
15°	287.4	287.9	284.1	277.0	269.3	264.0	263.5	259.2	252.8	243.8	234.5
17.5°	288.2	288.6	285.0	277.9	271.6	268.0	267.8	264.9	260.3	251.6	241.9
20°	283.7	284.0	281.0	275.2	271.1	269.9	269.9	268.6	265.2	257.5	248.1
22.5°	277.2	277.4	275.3	271.1	269.7	271.4	271.9	271.4	269.0	261.7	252.9
25°	275.6	275.5	273.2	269.0	270.1	273.9	274.5	274.7	273.0	266.7	259.1
27.5°	283.4	282.9	278.6	271.8	272.5	277.0	277.8	279.9	278.8	273.3	266.1
30°	305.8	305.0	296.2	282.4	278.6	280.9	282.0	285.2	285.4	280.8	275.4
32.5°	343.8	342.7	327.0	302.3	288.9	284.9	285.9	290.7	293.3	289.7	283.9
35°	391.7	390.5	369.9	336.1	306.1	292.5	293.2	297.1	302.3	297.2	289.5
37.5°	441.7	438.8	419.0	375.8	333.5	308.8	308.8	309.3	311.8	301.3	296.1
40°	491.4	488.5	470.6	422.6	368.9	334.5	332.9	322.1	320.1	311.1	309.3
42.5°	537.6	536.7	526.1	475.4	410.5	359.8	357.6	339.1	339.6	334.0	334.0
45°	586.7	586.7	578.1	528.7	458.9	400.4	398.1	371.1	375.3	372.7	378.9
47.5°	626.8	628.0	626.9	584.3	515.2	452.0	447.9	415.3	427.0	435.9	454.1
50°	667.7	669.7	669.9	645.3	583.3	513.3	508.7	474.0	500.3	525.7	561.4
52.5°	727.1	731.6	714.0	706.1	666.7	586.1	581.5	549.5	593.3	629.1	690.5
55°	782.2	778.4	765.8	770.7	756.0	668.9	665.5	637.4	697.1	743.5	823.2
57.5°	812.0	811.8	824.4	845.3	852.3	771.1	768.2	740.9	814.0	848.9	947.9
60°	847.0	847.5	878.7	926.4	955.2	898.3	897.1	876.4	927.6	947.3	1045.6
62.5°	851.9	860.7	914.5	996.5	1051.5	1047.0	1049.8	998.3	1029.2	1025.8	1118.6
65°	795.6	807.2	904.5	1017.7	1147.3	1209.6	1212.1	1121.0	1109.3	1093.0	1144.7
67.5°	680.1	697.3	803.0	971.6	1178.8	1329.7	1333.4	1216.1	1175.8	1115.7	1081.9
70°	494.9	514.0	620.4	829.8	1122.6	1368.1	1372.3	1258.2	1178.3	1051.0	923.6
72.5°	299.0	314.0	401.6	610.9	947.5	1298.2	1305.5	1204.9	1075.8	890.2	682.0
75°	131.3	141.1	194.2	352.0	678.3	1074.1	1083.2	1031.3	874.1	646.9	403.1
77.5°	55.9	58.7	79.6	152.9	383.4	733.9	746.5	753.5	593.1	352.0	170.3
80°	34.9	36.0	45.1	69.2	179.4	412.2	425.8	443.4	294.5	129.4	59.5
82.5°	21.2	22.5	30.0	41.9	93.4	186.9	193.4	205.8	114.3	55.9	30.8
85°	12.7	13.6	18.3	26.5	53.2	73.5	73.4	81.2	53.8	36.0	16.2
87.5°	6.1	6.8	9.8	13.7	26.8	27.6	25.8	29.3	32.7	23.6	8.2
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°	208.3	208.3	208.3	208.3	208.3	208.3	208.3	208.3	208.3	208.3	208.3
2.5°	208.2	207.9	207.0	206.3	206.2	205.8	205.4	205.6	205.9	206.0	206.0
5°	208.1	207.4	206.2	205.7	206.3	207.2	208.2	209.6	210.4	211.1	211.5
7.5°	211.5	210.0	208.7	208.4	209.7	211.9	214.3	217.2	219.3	220.7	220.9
10°	217.1	215.3	213.9	214.2	216.5	219.7	223.0	226.8	229.9	231.8	231.9
12.5°	223.5	221.8	220.5	221.7	225.4	229.3	232.8	236.1	238.9	240.8	240.8
15°	231.0	229.7	228.2	231.0	236.0	239.5	241.0	242.6	244.1	245.5	245.2
17.5°	238.1	236.9	236.1	239.3	244.6	246.2	245.2	244.0	244.0	244.8	244.9
20°	244.2	243.2	243.7	246.8	249.6	247.9	244.2	240.5	238.9	239.3	239.8
22.5°	249.6	249.1	250.6	252.1	250.1	244.2	237.5	232.4	230.5	230.4	230.5
25°	255.9	255.9	257.7	255.0	246.3	235.5	226.5	221.5	220.5	221.3	222.7
27.5°	263.8	264.5	265.5	255.7	238.6	222.3	213.1	209.7	210.7	212.8	214.1
30°	273.8	275.9	273.9	254.0	227.6	207.2	198.4	197.4	200.3	203.2	204.6
32.5°	283.5	286.8	282.0	249.4	213.3	191.1	184.3	184.1	187.6	190.4	192.3
35°	291.3	297.9	288.1	240.4	196.8	176.4	171.4	169.5	170.8	174.1	176.3
37.5°	301.6	312.4	292.3	226.6	178.9	164.2	158.4	154.0	152.9	154.2	155.4
40°	320.3	334.6	294.3	207.4	161.4	152.0	146.1	139.8	135.4	132.1	132.2
42.5°	350.8	363.5	293.0	184.0	145.2	140.1	133.5	126.1	119.0	111.7	111.1
45°	400.3	406.5	289.2	159.2	131.0	127.7	121.4	114.1	104.6	96.3	95.5
47.5°	479.6	466.0	283.4	137.6	118.5	117.1	111.3	102.9	92.8	86.2	85.6
50°	587.7	551.8	280.5	120.4	107.4	107.8	103.2	94.2	84.7	79.8	79.2
52.5°	717.1	651.8	286.0	107.1	98.5	100.0	96.5	88.1	80.1	76.3	75.7
55°	851.2	755.4	292.0	97.4	90.1	93.0	91.8	84.9	77.7	74.1	73.6
57.5°	966.1	832.8	280.1	89.6	82.7	87.1	88.2	82.9	76.4	73.2	72.6
60°	1038.4	863.9	248.9	82.2	76.7	82.4	86.1	82.3	76.9	76.6	76.2
62.5°	1072.7	861.2	202.0	76.4	73.0	80.4	87.6	85.5	82.5	85.0	85.2
65°	1057.3	820.0	150.5	72.6	70.3	81.2	92.2	91.4	84.1	86.6	87.0
67.5°	955.9	721.8	111.4	69.2	67.4	83.4	100.6	93.4	81.0	82.8	81.7
70°	772.6	572.3	85.9	65.4	64.4	83.1	104.4	92.2	77.5	78.0	75.0
72.5°	532.8	390.2	69.9	61.9	60.0	75.7	101.8	89.2	74.7	71.5	67.5
75°	289.7	209.5	59.4	58.3	52.4	66.5	96.9	87.1	72.1	67.8	65.6
77.5°	114.0	86.9	51.6	53.3	45.8	58.7	91.4	83.1	68.5	62.9	61.8
80°	46.5	44.4	42.8	46.1	39.4	51.4	84.8	78.5	64.2	58.4	56.1
82.5°	26.4	27.6	33.2	36.4	32.0	47.3	81.7	74.7	59.1	52.3	49.6
85°	13.5	16.2	23.2	26.1	23.5	40.2	75.2	65.4	47.4	40.0	40.2
87.5°	6.5	9.0	14.6	16.4	15.3	29.1	56.2	47.4	37.0	29.3	28.3
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)