

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: INVUE

Report Number: P400788

Luminaire Tested: **ENT-SA1-740-U-T2-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1-740-U-T2-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 4000K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 768 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B0 - U0 - G0

Input Watts (W): 13
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: 25 FT

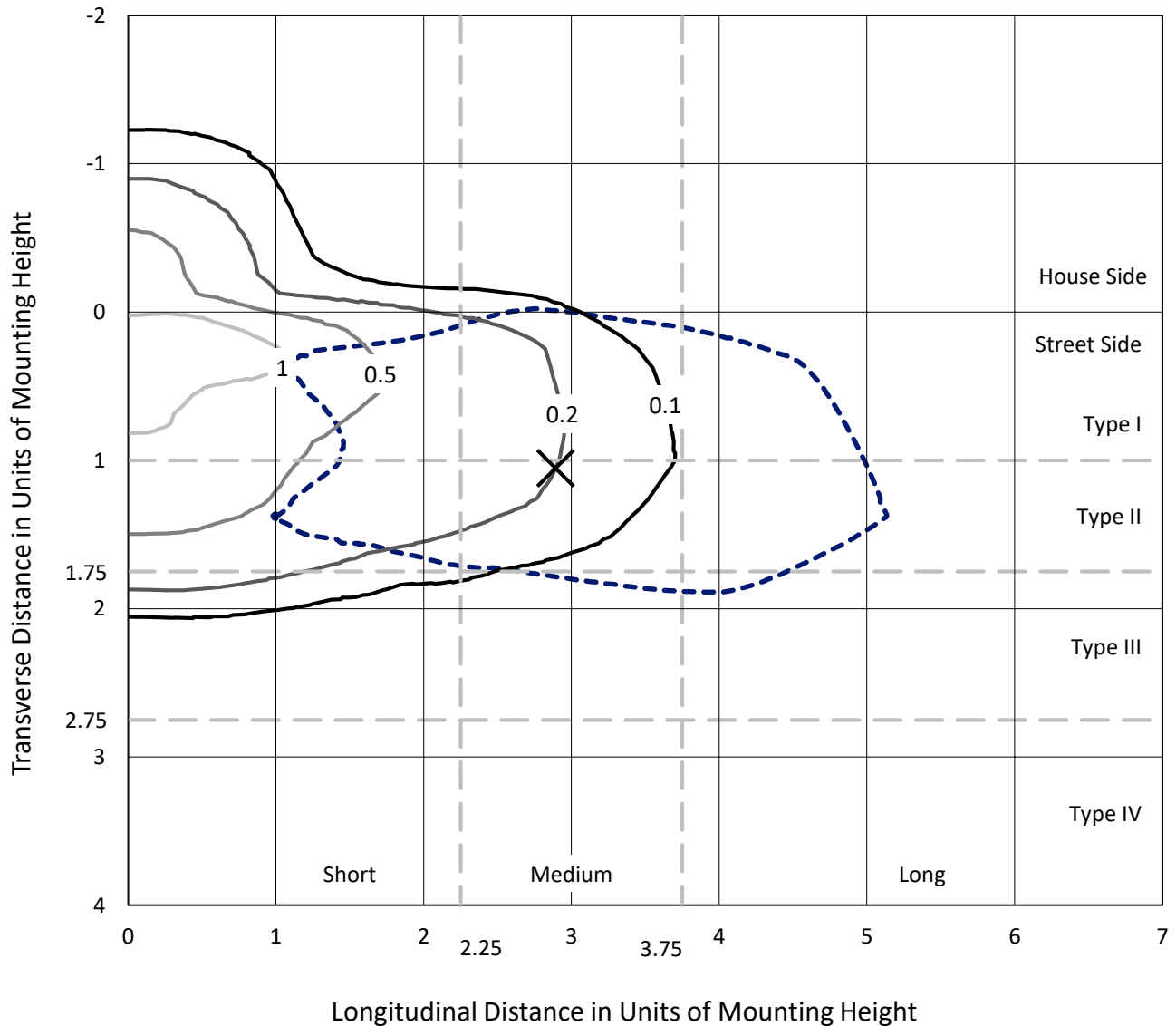


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Iso-Footcandle Lines of Horizontal Illumination

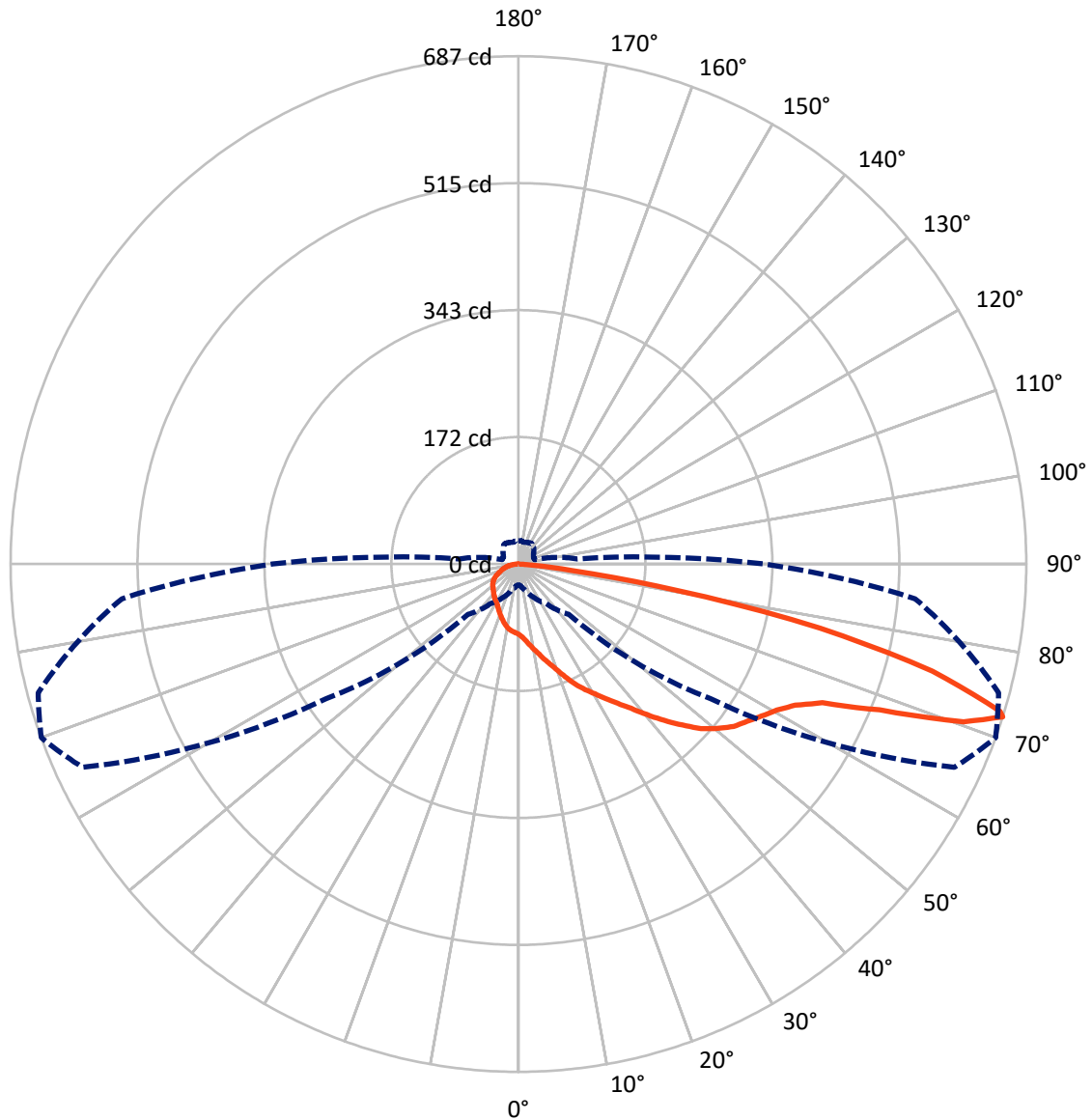
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	142.7	0.0	142.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	625.3	0.0	625.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	768.0	0.0	768.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	1.2
10°-20°	30.7	4.0
20°-30°	54.3	7.1
30°-40°	80.7	10.5
40°-50°	117.1	15.3
50°-60°	160.0	20.8
60°-70°	175.2	22.8
70°-80°	124.6	16.2
80°-90°	15.6	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°	768.0	100.0
0°-180°	768.0	100.0



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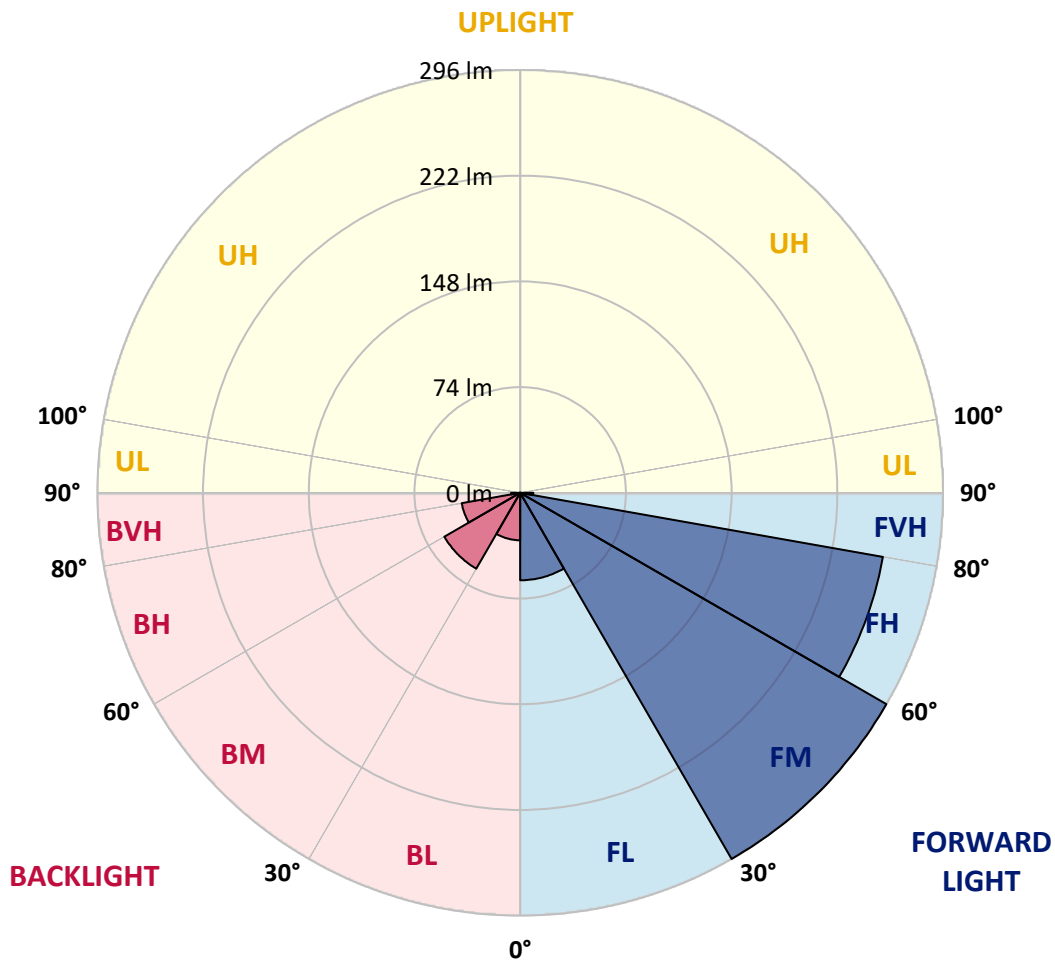
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	61.3	8.0			
FM	(30°-60°)	296.5	38.6			
FH	(60°-80°)	258.3	33.6			G0/660
FVH	(80°-90°)	9.2	1.2			G0/10
BL	(0°-30°)	33.3	4.3	B0/110		
BM	(30°-60°)	61.4	8.0	B0/220		
BH	(60°-80°)	41.6	5.4	B0/110		G0/110
BVH	(80°-90°)	6.4	0.8			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
2.5°	105.8	105.2	105.3	104.3	103.8	102.5	101.0	99.5	98.7	98.2	96.3
5°	116.1	116.1	116.5	115.7	113.7	111.5	108.9	105.5	104.1	102.1	98.4
7.5°	124.6	124.8	124.8	124.6	122.8	120.3	117.1	112.9	110.6	107.7	101.9
10°	129.0	129.6	130.0	130.3	130.1	128.7	125.0	120.7	117.5	113.8	106.0
12.5°	131.2	131.4	132.2	133.8	135.2	136.2	133.5	128.5	125.3	120.8	110.4
15°	133.6	133.6	134.4	136.5	139.0	142.0	141.6	137.7	134.3	128.7	116.0
17.5°	135.2	135.6	137.0	139.2	142.7	147.7	150.2	148.0	143.6	137.7	122.0
20°	134.3	134.6	137.5	141.7	146.2	152.6	159.0	159.0	154.8	148.0	128.7
22.5°	135.9	136.5	138.4	142.5	148.6	156.9	167.3	170.9	167.3	159.8	136.5
25°	142.3	142.1	143.7	145.4	150.6	160.8	174.4	183.8	180.5	172.2	144.0
27.5°	151.5	151.5	152.4	152.3	154.1	164.1	180.7	195.0	192.3	182.4	150.3
30°	162.1	162.4	162.1	162.0	161.7	168.6	186.3	205.1	203.7	194.0	156.0
32.5°	175.1	175.6	174.8	172.6	171.2	175.1	191.0	216.4	216.9	205.4	161.6
35°	191.3	192.2	188.9	185.7	182.4	184.2	196.5	227.1	231.5	218.3	168.4
37.5°	207.6	209.0	208.4	199.9	195.3	195.2	204.6	240.4	247.7	235.2	178.0
40°	221.3	222.5	223.1	215.3	209.0	208.8	216.6	254.2	267.7	254.6	189.5
42.5°	230.4	231.5	233.4	228.8	222.9	225.7	229.7	267.9	289.2	278.3	203.5
45°	240.2	241.1	242.3	239.7	236.6	244.5	246.4	283.1	310.7	303.8	220.0
47.5°	250.8	251.7	252.3	250.3	249.2	260.3	262.7	298.7	332.4	330.1	236.0
50°	262.4	262.7	263.4	262.4	262.7	274.7	276.2	312.4	349.6	357.5	252.6
52.5°	282.4	282.8	283.0	278.3	276.7	283.8	287.1	327.0	364.8	380.3	267.3
55°	298.2	299.7	306.6	303.5	299.6	290.3	296.1	338.8	375.5	401.6	282.7
57.5°	285.2	288.7	306.0	320.4	331.5	309.2	306.7	350.8	387.9	419.9	300.6
60°	247.6	252.8	277.8	307.9	343.8	352.8	328.6	365.9	401.4	439.0	319.8
62.5°	171.7	176.9	211.5	259.7	323.1	377.7	388.3	392.5	420.2	458.6	344.8
65°	82.3	87.7	116.2	167.0	255.2	361.7	458.0	447.8	451.8	483.3	381.7
67.5°	52.3	55.2	66.4	90.9	148.4	281.7	483.0	557.9	526.6	540.5	455.0
70°	38.3	38.9	48.6	63.0	88.1	164.6	426.5	663.4	638.8	637.3	543.6
72°	28.3	29.4	36.9	50.2	65.2	96.2	317.4	650.5	686.8	672.3	538.3
72.5°	26.7	27.5	34.0	47.5	61.5	84.5	284.3	635.6	680.9	673.2	528.2
75°	19.4	20.1	23.3	33.8	47.6	48.9	151.8	487.8	578.2	642.7	478.8
77.5°	13.4	13.8	15.5	20.7	32.6	33.1	64.4	333.1	417.3	514.0	368.3
80°	8.1	8.3	9.3	11.3	20.7	19.6	26.5	174.1	217.8	279.4	170.8
82.5°	3.4	3.5	4.1	4.5	8.8	9.3	10.8	56.8	72.1	87.3	49.3
85°	0.0	0.0	0.1	0.1	0.2	1.0	1.5	7.0	10.6	12.7	8.9
87.5°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.7
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°	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
2.5°	95.4	95.0	93.7	92.6	91.7	90.3	90.2	89.1	89.1	88.7	88.5
5°	97.0	95.6	92.9	90.5	88.7	86.7	85.7	84.5	83.7	83.3	83.4
7.5°	99.0	96.5	92.0	88.0	84.7	82.1	80.5	79.5	79.0	78.8	78.8
10°	101.7	98.0	90.6	84.5	80.3	78.3	77.6	77.4	77.6	77.7	77.8
12.5°	104.8	99.0	88.0	80.3	77.0	76.2	76.7	77.7	78.5	78.9	78.9
15°	107.9	99.6	84.4	76.5	74.5	75.3	76.8	78.7	80.1	81.0	81.2
17.5°	111.2	99.7	80.5	73.0	72.3	74.3	77.0	80.0	82.3	83.7	83.9
20°	114.7	99.5	76.0	69.8	70.1	73.4	77.2	81.3	84.4	86.2	86.4
22.5°	118.6	98.6	71.6	66.7	68.2	72.5	77.0	81.7	85.0	87.2	87.7
25°	122.3	96.9	67.2	64.0	66.9	71.6	75.9	80.0	83.2	85.2	85.8
27.5°	124.3	93.1	63.1	61.9	65.9	70.3	73.4	76.1	77.9	79.2	79.8
30°	124.6	87.9	59.7	60.4	64.8	68.5	70.2	70.6	70.3	70.8	70.2
32.5°	124.0	82.2	56.9	59.3	63.1	65.8	66.3	64.9	63.0	60.2	60.3
35°	123.5	75.9	54.7	57.8	60.8	62.5	61.8	59.7	55.9	52.7	52.4
37.5°	124.3	70.2	52.9	55.8	57.8	58.6	57.5	54.7	51.5	48.6	48.3
40°	126.5	66.0	51.1	53.6	54.6	55.2	53.9	51.5	50.1	48.0	47.7
42.5°	130.8	63.2	49.5	51.2	51.7	52.2	50.9	49.3	50.5	50.0	50.0
45°	136.7	61.9	48.0	48.9	49.4	50.2	49.5	48.0	49.4	46.8	46.4
47.5°	144.4	62.3	47.1	46.6	47.9	49.5	48.6	46.8	46.4	41.9	41.1
50°	152.5	64.6	46.1	44.8	46.4	48.5	47.4	44.6	42.0	39.7	39.3
52.5°	162.0	68.5	45.2	42.7	44.6	47.4	46.6	43.7	40.9	39.3	38.9
55°	172.6	72.2	44.1	40.3	42.3	47.1	46.8	43.0	39.4	38.6	38.4
57.5°	184.4	75.3	42.8	37.5	40.0	46.1	45.9	41.5	38.9	38.3	38.2
60°	199.2	78.9	40.5	34.3	37.7	44.2	44.0	40.7	38.0	37.4	37.2
62.5°	219.4	85.6	36.5	31.4	35.3	40.9	42.2	39.2	36.5	36.4	36.4
65°	252.6	98.5	32.5	28.9	32.6	37.7	39.9	37.4	35.2	35.8	35.8
67.5°	315.5	116.0	28.3	26.4	29.9	34.7	38.0	35.7	33.8	34.9	34.9
70°	364.0	109.5	25.0	24.1	27.3	31.9	35.4	33.8	32.0	33.9	33.7
72°	332.1	80.2	22.8	22.3	25.1	29.6	33.2	32.0	30.2	31.7	31.3
72.5°	318.8	72.8	22.2	21.7	24.5	29.2	32.8	31.6	29.6	31.2	30.5
75°	278.1	61.4	19.3	19.1	21.7	26.2	29.9	29.3	27.3	28.2	27.5
77.5°	230.2	51.8	16.2	16.7	18.5	23.4	27.0	26.3	24.5	24.4	24.2
80°	107.9	28.9	13.4	13.7	15.6	20.0	23.3	22.8	21.1	20.8	20.5
82.5°	31.3	13.8	10.3	10.5	12.5	16.3	20.0	19.7	18.4	18.1	17.3
85°	5.8	4.5	5.6	6.6	9.1	13.6	18.2	17.8	15.8	14.4	13.3
87.5°	0.3	0.9	1.9	3.2	5.8	10.2	14.7	14.4	12.6	10.9	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

(END OF REPORT)