

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: P400758

Luminaire Tested: **ENT-SA1-735-U-T2-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400758
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-SA1-735-U-T2-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K 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: 722 lumens
Efficiency: N/A
Efficacy: 55.5 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

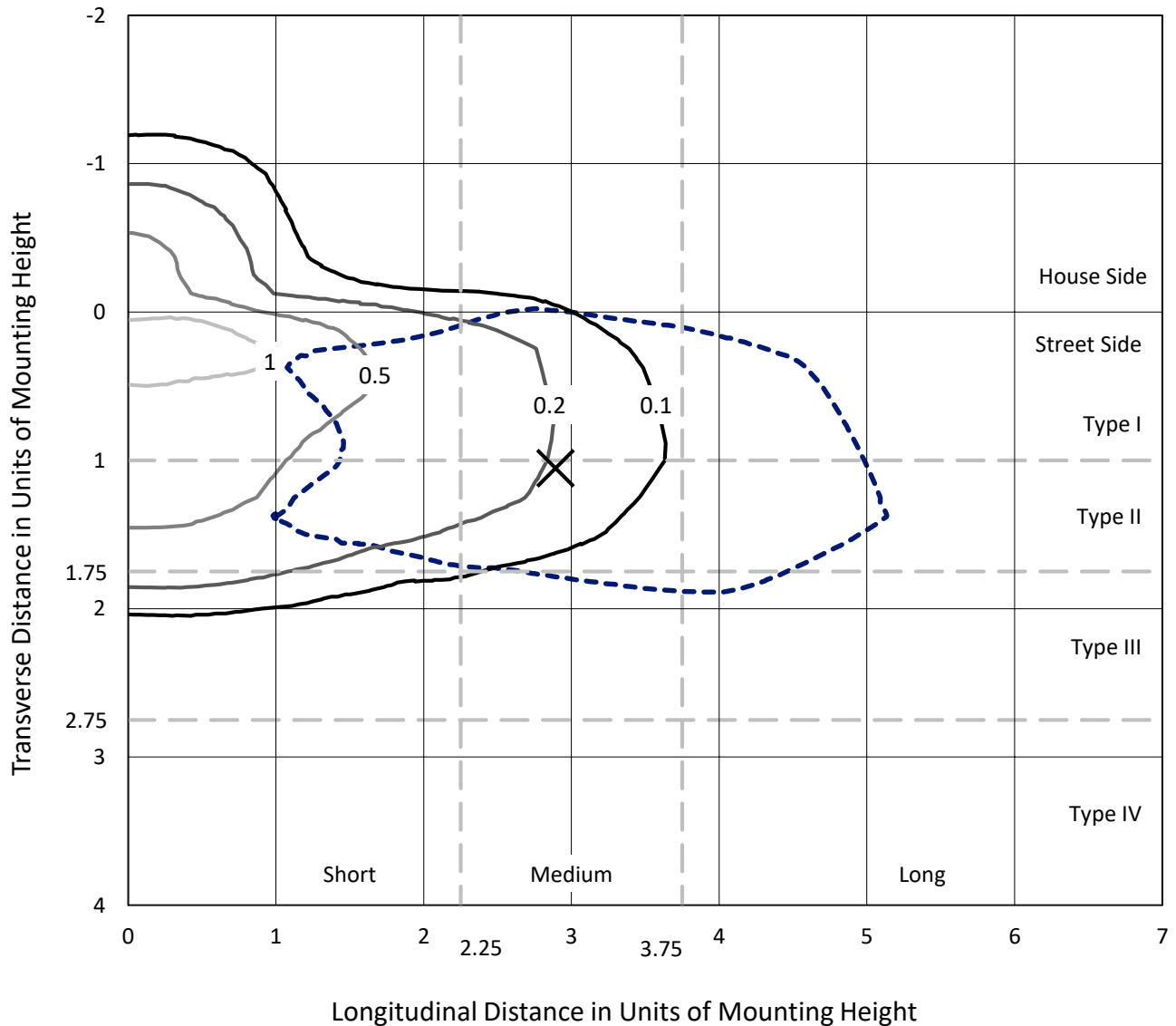


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

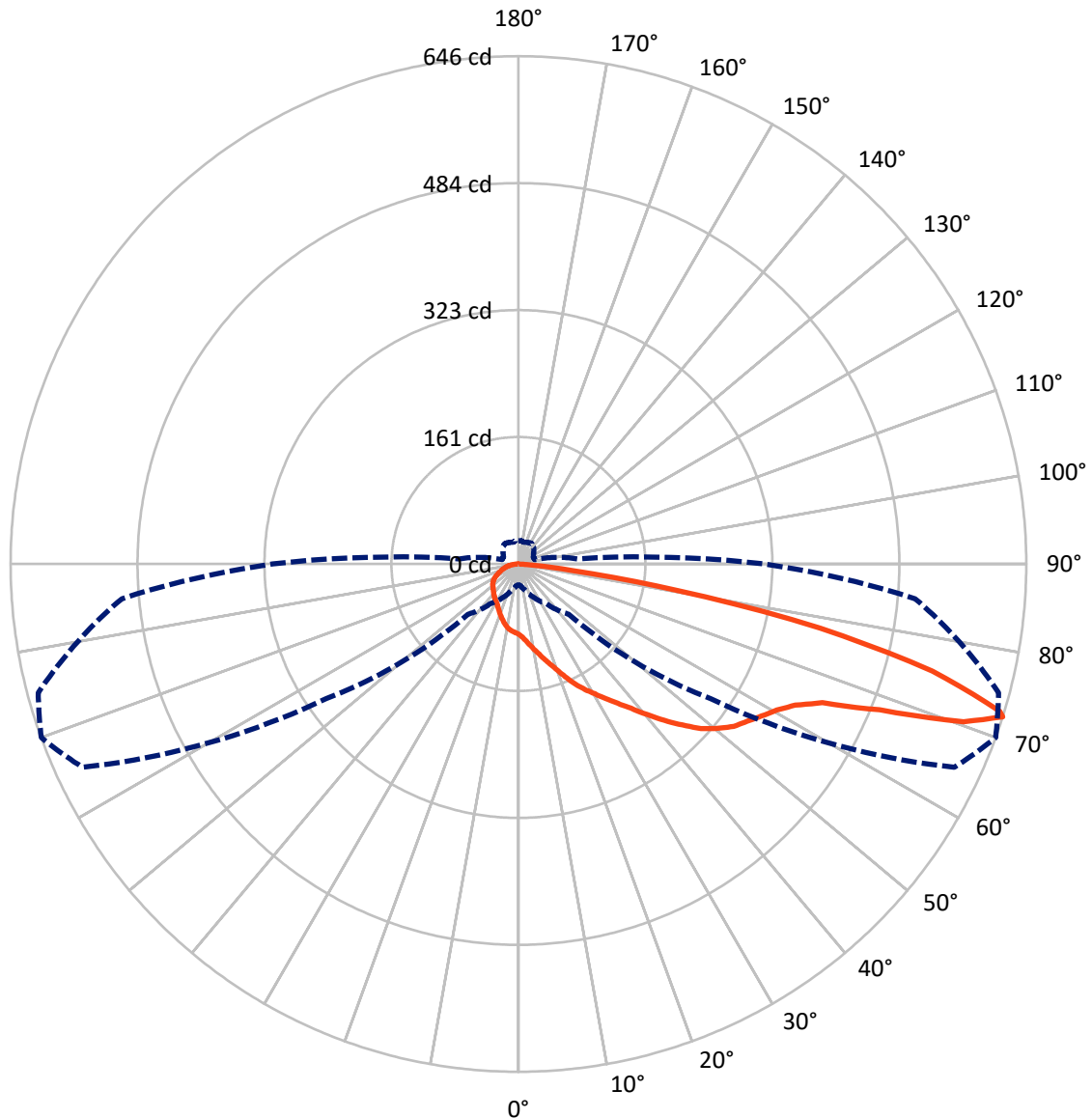


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Medium - Non-Cutoff

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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	134.2	0.0	134.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	587.8	0.0	587.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	722.0	0.0	722.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.0	1.2
10°-20°	28.8	4.0
20°-30°	51.1	7.1
30°-40°	75.9	10.5
40°-50°	110.1	15.3
50°-60°	150.5	20.8
60°-70°	164.7	22.8
70°-80°	117.2	16.2
80°-90°	14.7	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°	722.0	100.0
0°-180°	722.0	100.0



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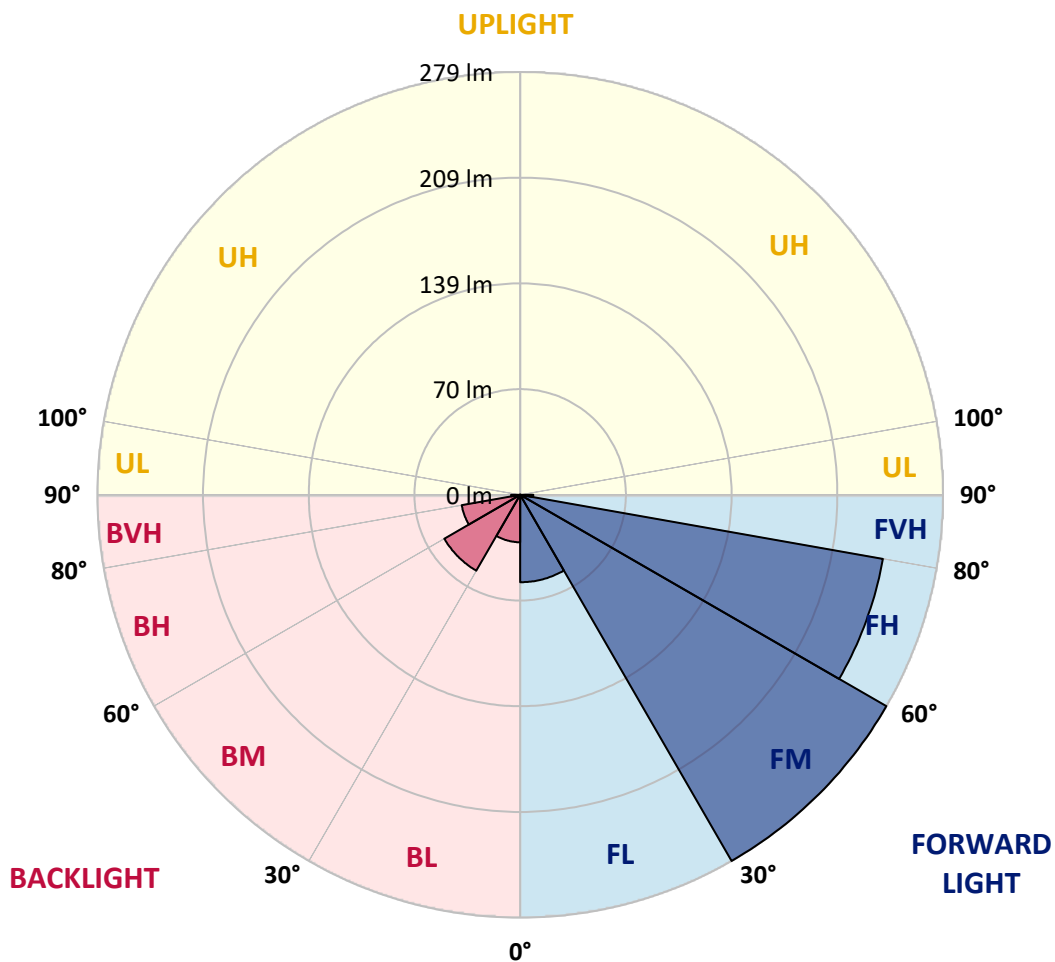
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	57.6	8.0			
FM	(30°-60°)	278.7	38.6			
FH	(60°-80°)	242.8	33.6			G0/660
FVH	(80°-90°)	8.7	1.2			G0/10
BL	(0°-30°)	31.3	4.3	B0/110		
BM	(30°-60°)	57.8	8.0	B0/220		
BH	(60°-80°)	39.1	5.4	B0/110		G0/110
BVH	(80°-90°)	6.0	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°	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
2.5°	99.4	98.9	99.0	98.1	97.6	96.3	95.0	93.5	92.8	92.3	90.5
5°	109.1	109.1	109.5	108.8	106.8	104.8	102.4	99.2	97.9	96.0	92.5
7.5°	117.2	117.4	117.4	117.2	115.4	113.1	110.0	106.1	104.0	101.3	95.8
10°	121.3	121.8	122.2	122.5	122.3	121.0	117.5	113.4	110.5	106.9	99.6
12.5°	123.3	123.6	124.3	125.8	127.1	128.1	125.5	120.8	117.8	113.5	103.7
15°	125.6	125.6	126.3	128.3	130.7	133.5	133.1	129.4	126.2	121.0	109.0
17.5°	127.1	127.5	128.8	130.9	134.2	138.8	141.2	139.1	135.0	129.4	114.7
20°	126.2	126.5	129.2	133.2	137.5	143.5	149.4	149.4	145.5	139.1	121.0
22.5°	127.8	128.3	130.2	134.0	139.7	147.5	157.3	160.7	157.3	150.3	128.3
25°	133.8	133.6	135.1	136.6	141.6	151.2	164.0	172.7	169.7	161.9	135.4
27.5°	142.4	142.4	143.2	143.1	144.9	154.3	169.9	183.4	180.8	171.5	141.3
30°	152.4	152.6	152.4	152.3	152.0	158.5	175.1	192.9	191.5	182.3	146.7
32.5°	164.6	165.1	164.3	162.2	161.0	164.6	179.6	203.5	203.9	193.1	151.9
35°	179.9	180.7	177.6	174.6	171.5	173.2	184.7	213.5	217.6	205.2	158.3
37.5°	195.1	196.5	195.9	187.9	183.6	183.5	192.3	226.0	232.9	221.1	167.4
40°	208.0	209.1	209.8	202.4	196.5	196.3	203.6	239.0	251.6	239.4	178.1
42.5°	216.6	217.6	219.5	215.1	209.6	212.1	216.0	251.8	271.9	261.6	191.3
45°	225.9	226.7	227.8	225.3	222.5	229.9	231.6	266.2	292.1	285.6	206.8
47.5°	235.8	236.6	237.2	235.3	234.3	244.7	247.0	280.8	312.5	310.3	221.8
50°	246.7	247.0	247.6	246.7	247.0	258.2	259.7	293.7	328.7	336.1	237.5
52.5°	265.5	265.9	266.1	261.6	260.1	266.8	269.9	307.4	342.9	357.6	251.3
55°	280.3	281.8	288.3	285.4	281.7	272.9	278.4	318.5	353.0	377.6	265.8
57.5°	268.1	271.4	287.6	301.2	311.7	290.7	288.4	329.8	364.7	394.8	282.6
60°	232.8	237.6	261.1	289.5	323.2	331.7	308.9	343.9	377.4	412.7	300.6
62.5°	161.4	166.4	198.8	244.1	303.7	355.1	365.1	369.0	395.0	431.1	324.1
65°	77.3	82.4	109.2	157.0	239.9	340.0	430.6	421.0	424.7	454.4	358.8
67.5°	49.2	51.9	62.4	85.5	139.5	264.8	454.1	524.5	495.0	508.1	427.8
70°	36.0	36.6	45.7	59.2	82.8	154.7	401.0	623.6	600.5	599.1	511.0
72°	26.6	27.6	34.7	47.2	61.3	90.4	298.4	611.6	645.7	632.0	506.1
72.5°	25.1	25.9	32.0	44.7	57.9	79.4	267.3	597.5	640.1	632.9	496.6
75°	18.3	18.9	21.9	31.8	44.8	46.0	142.7	458.6	543.6	604.2	450.2
77.5°	12.6	13.0	14.5	19.5	30.6	31.1	60.5	313.1	392.3	483.2	346.2
80°	7.6	7.8	8.8	10.6	19.5	18.5	25.0	163.7	204.7	262.7	160.6
82.5°	3.2	3.3	3.8	4.2	8.3	8.8	10.1	53.4	67.8	82.1	46.3
85°	0.0	0.0	0.1	0.1	0.2	0.9	1.4	6.6	10.0	12.0	8.4
87.5°	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.6
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°	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
2.5°	89.7	89.3	88.1	87.0	86.2	84.9	84.8	83.7	83.7	83.4	83.2
5°	91.2	89.8	87.4	85.1	83.4	81.5	80.5	79.4	78.7	78.3	78.4
7.5°	93.0	90.8	86.5	82.7	79.6	77.1	75.7	74.8	74.3	74.0	74.0
10°	95.6	92.1	85.2	79.4	75.5	73.6	72.9	72.8	72.9	73.0	73.1
12.5°	98.5	93.0	82.7	75.5	72.4	71.7	72.1	73.0	73.8	74.2	74.2
15°	101.5	93.6	79.3	71.9	70.0	70.7	72.2	73.9	75.3	76.1	76.3
17.5°	104.6	93.7	75.7	68.6	68.0	69.8	72.4	75.2	77.3	78.7	78.9
20°	107.9	93.5	71.5	65.6	65.9	69.0	72.6	76.4	79.3	81.1	81.3
22.5°	111.5	92.7	67.3	62.7	64.1	68.2	72.4	76.8	79.9	82.0	82.4
25°	115.0	91.1	63.2	60.1	62.9	67.3	71.4	75.2	78.2	80.1	80.6
27.5°	116.8	87.6	59.3	58.2	62.0	66.1	69.0	71.6	73.2	74.5	75.0
30°	117.2	82.6	56.1	56.8	61.0	64.4	66.0	66.4	66.1	66.5	66.0
32.5°	116.5	77.2	53.5	55.8	59.3	61.9	62.3	61.1	59.2	56.6	56.7
35°	116.1	71.4	51.5	54.4	57.1	58.8	58.1	56.1	52.6	49.5	49.3
37.5°	116.8	66.0	49.7	52.5	54.4	55.1	54.0	51.5	48.4	45.7	45.4
40°	118.9	62.1	48.1	50.4	51.4	51.9	50.6	48.4	47.1	45.2	44.9
42.5°	122.9	59.4	46.5	48.2	48.6	49.1	47.9	46.3	47.4	47.0	47.0
45°	128.5	58.2	45.2	46.0	46.4	47.2	46.5	45.2	46.4	44.0	43.6
47.5°	135.7	58.6	44.2	43.8	45.1	46.5	45.7	44.0	43.6	39.4	38.7
50°	143.4	60.7	43.3	42.1	43.6	45.6	44.6	42.0	39.5	37.3	36.9
52.5°	152.3	64.4	42.5	40.1	42.0	44.6	43.8	41.0	38.5	36.9	36.6
55°	162.2	67.9	41.5	37.8	39.8	44.2	44.0	40.4	37.0	36.3	36.1
57.5°	173.4	70.7	40.2	35.3	37.6	43.3	43.1	39.0	36.6	36.0	35.9
60°	187.3	74.2	38.1	32.3	35.5	41.6	41.4	38.3	35.7	35.2	35.0
62.5°	206.3	80.4	34.3	29.5	33.2	38.5	39.7	36.8	34.3	34.2	34.2
65°	237.5	92.6	30.5	27.1	30.6	35.5	37.5	35.2	33.1	33.6	33.6
67.5°	296.6	109.0	26.6	24.9	28.2	32.6	35.7	33.5	31.8	32.8	32.8
70°	342.2	102.9	23.5	22.7	25.7	30.0	33.3	31.8	30.1	31.9	31.7
72°	312.2	75.4	21.5	20.9	23.6	27.8	31.2	30.1	28.4	29.8	29.4
72.5°	299.7	68.5	20.8	20.4	23.0	27.4	30.8	29.7	27.8	29.3	28.7
75°	261.4	57.8	18.2	17.9	20.4	24.6	28.2	27.5	25.7	26.5	25.9
77.5°	216.4	48.7	15.3	15.7	17.4	22.0	25.4	24.8	23.0	22.9	22.8
80°	101.5	27.1	12.6	12.9	14.6	18.8	21.9	21.5	19.8	19.6	19.3
82.5°	29.4	13.0	9.7	9.9	11.8	15.4	18.8	18.6	17.3	17.0	16.3
85°	5.5	4.2	5.3	6.2	8.6	12.8	17.1	16.7	14.9	13.5	12.5
87.5°	0.3	0.8	1.8	3.0	5.5	9.6	13.8	13.5	11.9	10.2	10.3
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)