

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: McGRAW-EDISON

Report Number: P227821

Luminaire Tested: **ISS-AF-XXX-LED-E1-T4FT-8030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29760)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-XXX-LED-E1-T4FT-8030-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV FORWARD THROW
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 512 lumens
Efficiency: N/A
Efficacy: 39.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

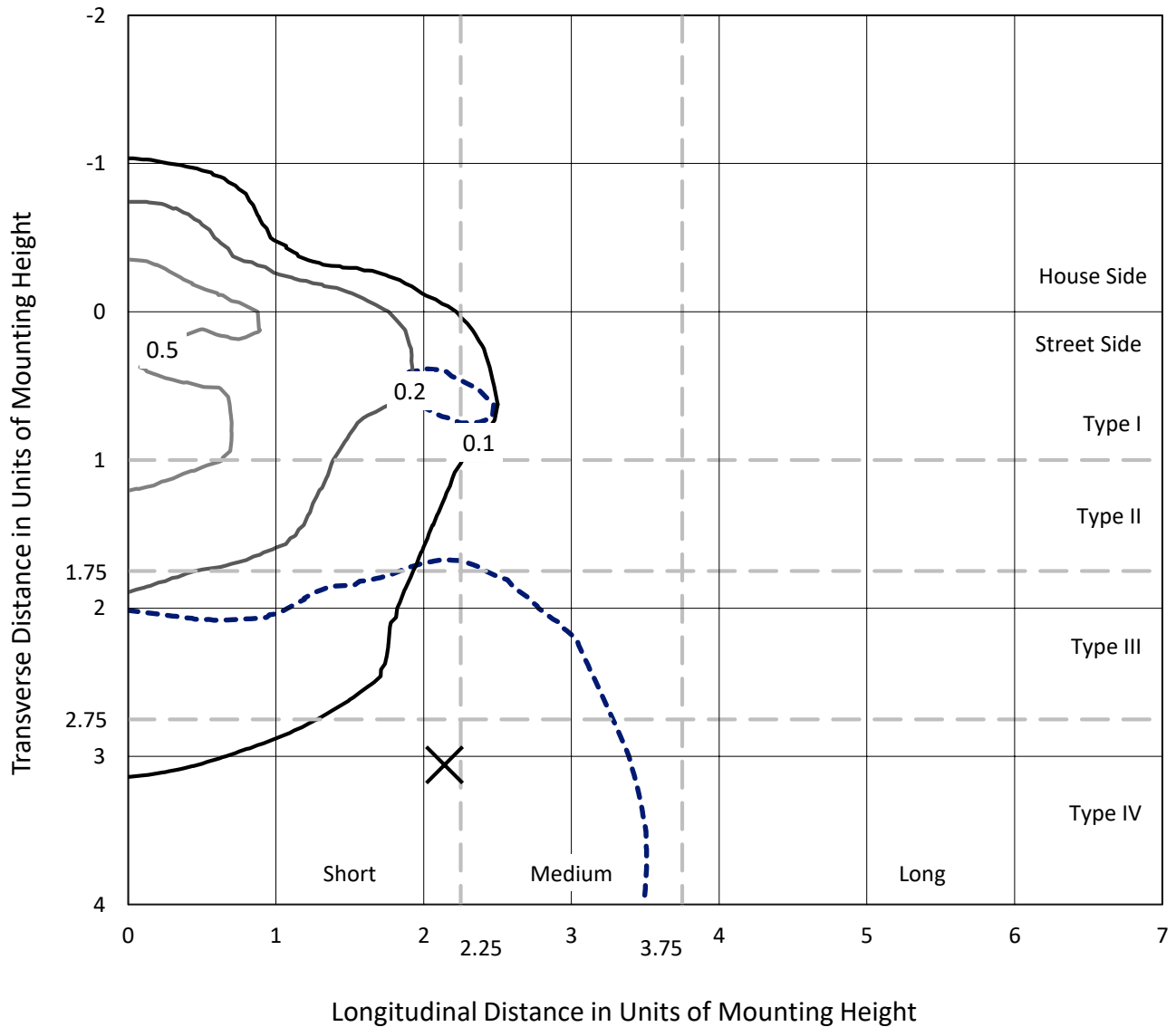
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

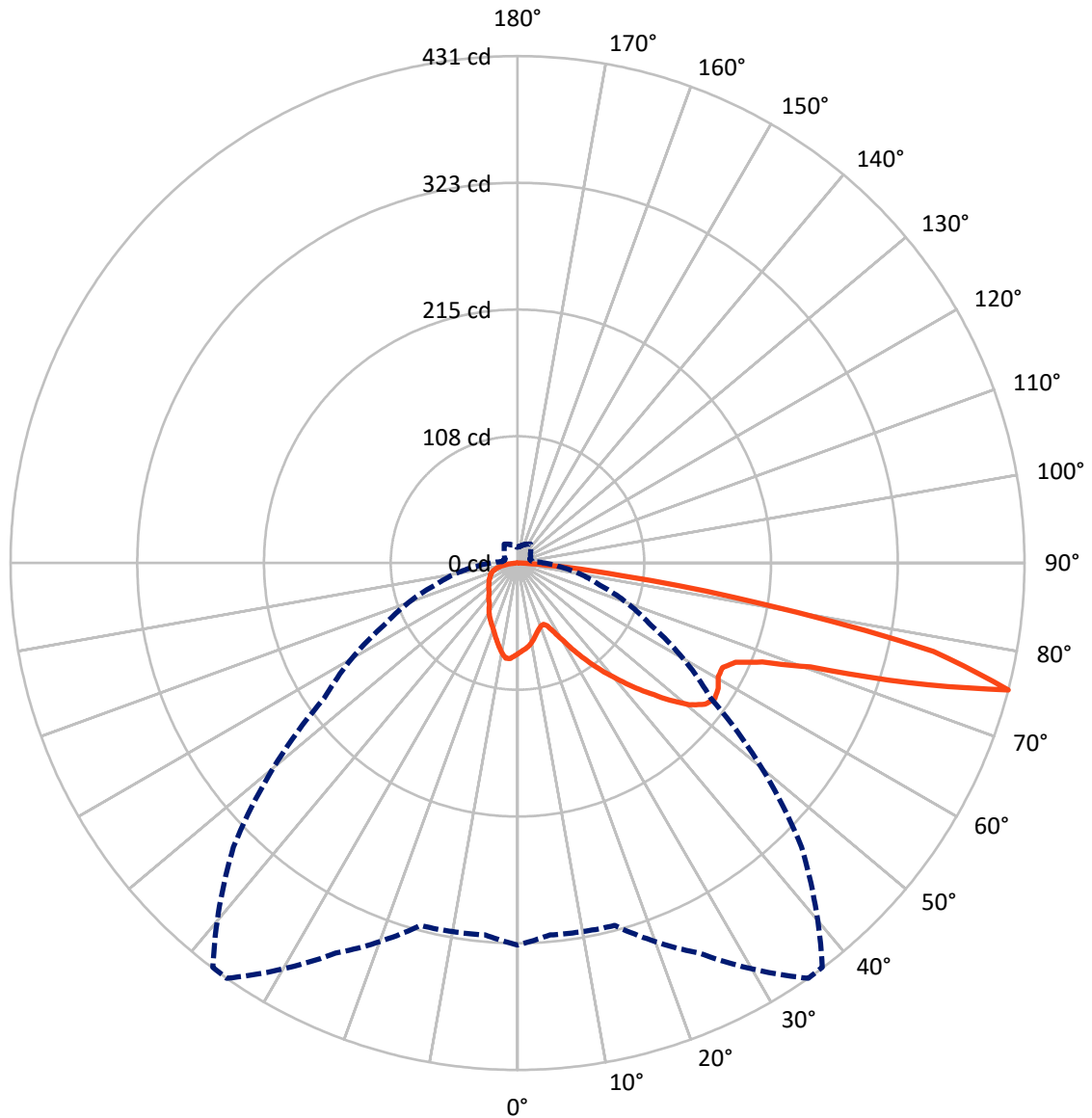
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	102.8	0.0	102.8
	% Fixture	20.1	0.0	20.1
Street Side	Lumens	409.2	0.0	409.2
	% Fixture	79.9	0.0	79.9
Total	Lumens	512.0	0.0	512.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	1.4
10°-20°	19.1	3.7
20°-30°	30.1	5.9
30°-40°	48.7	9.5
40°-50°	72.0	14.1
50°-60°	92.5	18.1
60°-70°	114.6	22.4
70°-80°	115.5	22.6
80°-90°	12.3	2.4
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°	512.0	100.0
0°-180°	512.0	100.0



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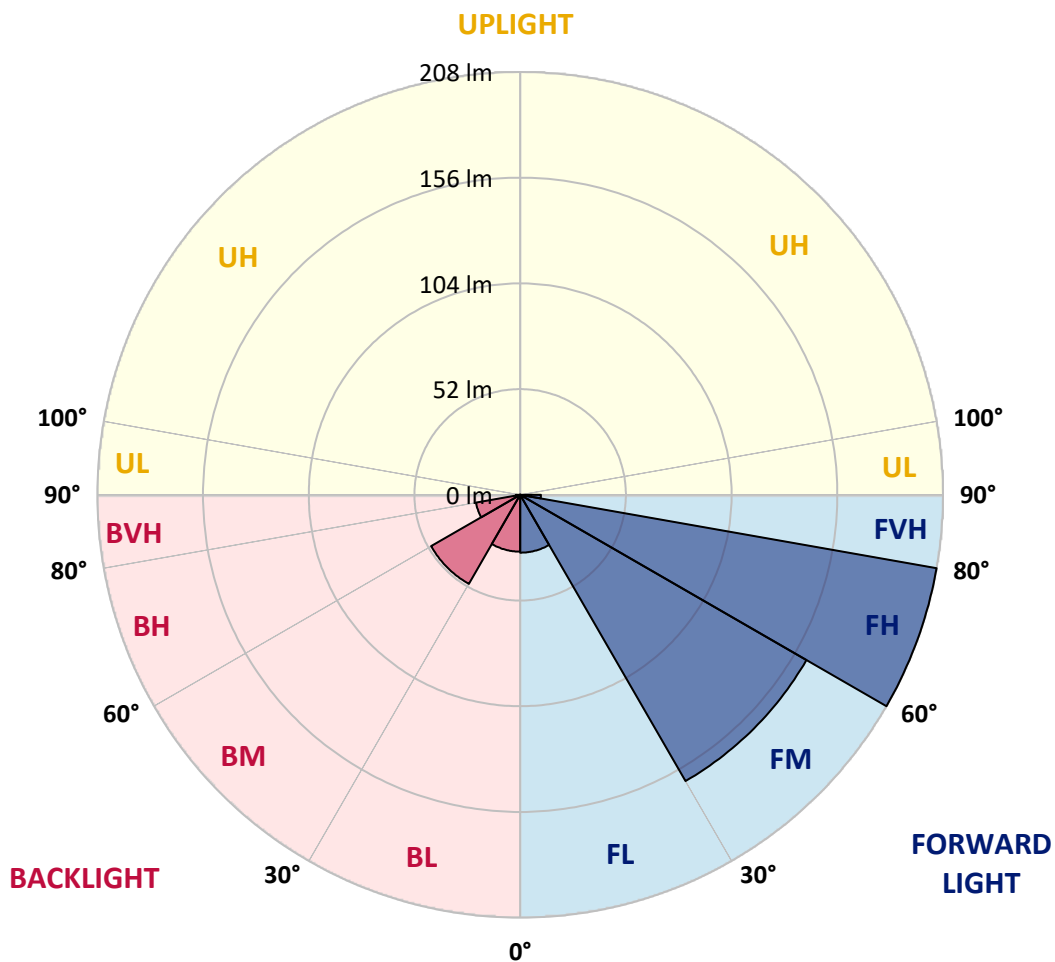
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	28.5	5.6			
FM	(30°-60°)	162.6	31.8			
FH	(60°-80°)	208.0	40.6			G0/660
FVH	(80°-90°)	10.2	2.0			G1/100
BL	(0°-30°)	27.9	5.5	B0/110		
BM	(30°-60°)	50.6	9.9	B0/220		
BH	(60°-80°)	22.1	4.3	B0/110		G0/110
BVH	(80°-90°)	2.1	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
2.5°	74.7	74.5	74.4	74.4	74.7	74.7	74.9	75.0	75.2	75.7	76.4
5°	72.6	72.5	72.3	72.5	73.0	73.0	73.5	73.8	74.2	75.0	75.9
7.5°	69.9	69.9	69.7	70.4	70.9	70.8	71.4	71.8	72.6	73.5	74.9
10°	66.3	66.3	66.3	67.2	68.0	68.0	68.5	69.4	70.1	71.3	73.0
12.5°	63.2	63.1	63.1	63.8	64.8	65.0	65.8	67.0	67.9	69.4	71.3
15°	62.2	61.9	61.0	61.0	61.5	61.5	62.9	64.6	66.0	67.5	69.7
17.5°	62.4	61.9	59.7	59.0	59.0	59.1	60.5	62.4	64.1	66.0	68.9
20°	63.9	63.1	59.0	57.4	57.1	57.3	58.5	60.3	62.4	65.0	68.2
22.5°	70.6	69.2	61.5	58.1	56.6	56.6	57.3	59.3	61.9	65.3	69.4
25°	86.0	83.8	70.1	63.9	59.3	58.8	57.6	59.7	62.7	66.8	72.8
27.5°	101.7	99.5	80.7	74.0	66.8	65.3	60.8	61.4	64.8	70.2	77.9
30°	114.9	113.0	94.0	86.3	76.7	75.0	68.2	65.0	68.4	75.0	85.6
32.5°	115.9	115.0	108.4	100.5	88.9	86.5	77.4	72.3	74.0	81.5	94.0
35°	125.5	124.8	121.2	113.7	102.0	99.3	89.7	81.9	81.4	88.7	103.6
37.5°	134.9	134.0	131.6	126.5	115.7	113.5	106.0	93.3	89.7	97.1	113.0
40°	143.7	142.5	139.5	136.6	128.7	128.7	120.7	104.3	97.8	104.4	120.8
42.5°	160.2	156.4	148.2	146.0	143.7	143.7	132.0	111.8	104.3	112.5	128.4
45°	175.9	172.3	161.2	156.7	157.9	157.2	141.0	116.1	110.1	120.0	135.5
47.5°	188.4	185.1	173.8	170.8	174.2	171.4	148.5	119.5	117.4	128.0	141.5
50°	199.5	191.8	180.8	184.9	189.2	184.6	155.2	124.6	124.8	136.6	150.2
52.5°	184.3	183.4	185.8	195.4	199.5	194.3	161.2	131.1	132.6	147.5	160.2
55°	166.0	165.8	179.8	198.4	203.4	198.6	165.1	139.0	140.8	161.0	172.6
57.5°	162.4	160.7	170.2	191.9	201.0	197.6	167.2	146.3	148.7	178.1	184.9
60°	174.0	170.8	169.2	184.9	195.9	194.2	169.7	155.0	158.3	197.6	196.4
62.5°	199.3	194.9	183.9	185.5	195.4	194.0	175.9	165.3	169.0	217.1	202.9
65°	232.8	229.5	212.1	199.6	203.4	201.5	187.0	178.3	180.3	231.1	195.5
67.5°	269.5	265.1	246.1	229.0	224.3	220.7	204.6	193.7	186.3	229.0	175.9
70°	311.1	306.3	289.9	272.3	264.1	260.1	235.4	207.0	184.1	206.5	138.8
72.5°	362.2	355.7	346.6	348.5	347.1	336.2	284.4	211.4	167.8	153.7	82.9
75°	324.6	317.2	318.8	365.8	430.7	430.2	341.2	200.5	125.1	72.5	35.9
77.5°	116.4	128.7	189.9	274.0	361.2	360.6	264.1	125.5	53.7	30.9	21.7
80°	29.2	29.7	47.2	112.5	210.9	209.2	149.7	47.3	22.4	18.8	14.9
82.5°	9.4	10.1	17.3	38.8	90.2	88.2	46.5	15.6	14.0	12.1	9.1
85°	3.1	3.1	6.2	13.3	29.7	28.5	9.4	5.6	7.7	6.3	4.1
87.5°	0.0	0.0	0.2	0.3	0.7	0.3	0.0	0.3	1.0	1.2	0.9
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°	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
2.5°	76.9	76.7	77.4	77.9	78.1	78.6	79.1	79.5	79.3	79.1	79.1
5°	76.7	76.9	78.1	79.1	80.0	80.8	81.5	81.9	81.7	81.7	81.7
7.5°	75.7	76.4	77.8	79.5	80.7	81.2	81.4	80.8	80.5	80.0	80.0
10°	74.0	75.0	77.3	79.1	79.7	79.0	77.9	76.9	75.5	74.7	74.7
12.5°	72.6	73.8	76.6	78.1	77.4	75.7	73.5	71.8	70.4	69.4	69.2
15°	71.4	73.0	75.9	76.2	74.7	71.8	68.9	67.0	65.5	64.8	64.8
17.5°	70.6	72.6	75.2	74.2	71.1	67.3	64.6	63.1	61.9	61.2	61.0
20°	70.8	73.3	74.5	71.6	67.2	63.2	60.7	59.8	59.0	58.6	58.6
22.5°	72.6	75.0	74.4	69.4	63.6	59.1	57.4	57.3	56.9	56.6	56.4
25°	76.7	78.5	74.9	67.2	59.8	55.4	54.5	55.0	54.9	54.5	54.5
27.5°	82.4	82.7	75.7	65.0	55.7	51.8	51.8	52.6	52.3	51.8	52.1
30°	89.2	87.3	76.1	61.4	50.9	48.4	48.9	49.4	49.1	48.4	48.4
32.5°	96.6	92.1	76.1	56.7	46.3	45.3	45.5	45.6	45.0	44.1	44.1
35°	103.8	96.7	75.2	51.3	42.7	42.2	42.0	42.7	42.2	41.0	41.0
37.5°	110.6	100.3	73.0	45.6	40.0	39.8	40.3	40.0	39.3	37.6	37.3
40°	115.4	102.7	68.5	41.0	37.8	38.8	38.5	36.6	35.6	34.4	34.4
42.5°	119.6	103.9	63.1	37.4	36.2	37.6	36.2	33.8	32.5	32.3	32.5
45°	123.6	104.9	57.8	34.5	34.4	36.2	34.5	32.0	30.4	30.4	30.6
47.5°	127.3	106.0	52.5	31.8	32.1	34.2	33.2	30.6	29.1	28.0	28.0
50°	133.3	108.4	44.8	28.9	29.6	32.5	32.1	29.2	27.5	26.0	25.6
52.5°	140.5	112.5	36.4	25.8	27.7	30.9	30.9	28.0	26.2	24.1	23.8
55°	150.1	116.9	29.2	23.6	25.8	29.2	29.7	27.5	24.8	22.9	22.6
57.5°	159.6	118.4	23.6	21.4	23.4	27.5	28.9	26.5	23.2	21.9	21.7
60°	166.3	113.5	19.8	19.5	21.7	25.5	27.7	25.3	22.2	20.9	20.9
62.5°	165.3	98.5	17.8	18.3	20.3	23.9	26.7	24.3	21.5	20.7	20.5
65°	150.8	74.4	16.1	17.3	19.1	22.4	25.6	23.8	21.2	20.3	20.0
67.5°	127.0	49.4	14.9	16.2	17.9	21.2	24.8	23.1	20.2	19.7	19.3
70°	92.0	28.9	13.7	15.2	16.8	19.8	23.6	21.7	19.0	18.6	17.8
72.5°	49.7	18.1	12.3	13.8	15.2	18.1	21.7	20.0	17.4	16.1	15.6
75°	22.7	13.2	10.9	12.3	13.3	15.9	19.5	17.6	15.6	13.8	13.5
77.5°	15.2	9.9	9.2	10.6	11.1	13.3	17.3	14.0	12.1	10.9	10.6
80°	10.4	7.3	7.5	8.7	8.5	10.6	13.0	11.3	9.6	9.9	9.1
82.5°	6.7	5.1	5.8	6.2	6.0	8.0	10.1	8.5	7.2	6.0	5.1
85°	2.9	2.7	3.4	3.6	3.6	4.4	5.3	4.3	3.2	2.4	2.4
87.5°	0.2	0.3	0.3	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.0
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)