

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: P271559

Luminaire Tested: **ISS-AF-XXX-LED-E1-T4FT-7027-XXB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P271559  
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-7027-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) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 545.7 lumens  
Efficiency: N/A  
Efficacy: 42.0 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

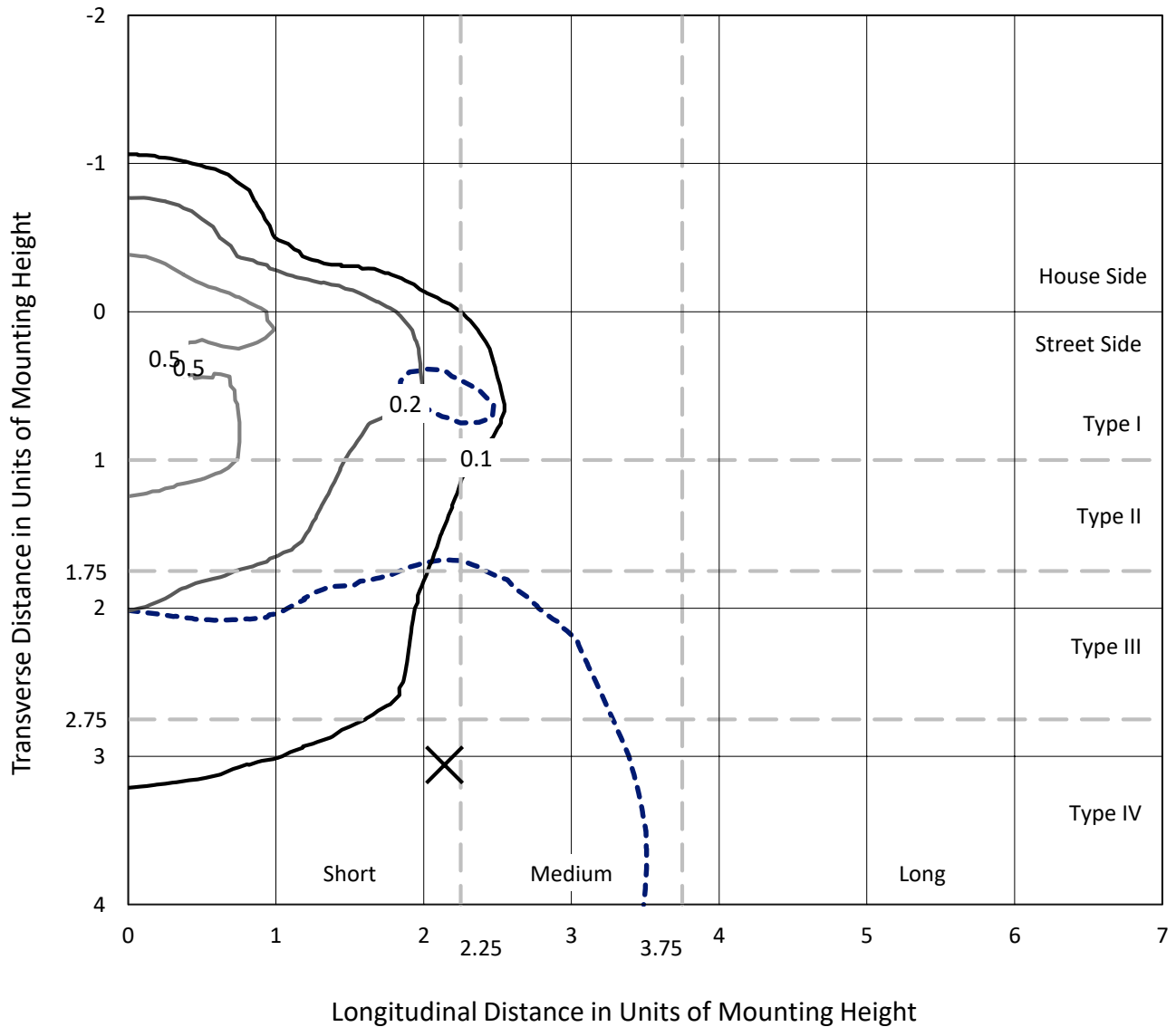
Input Watts (W): 13  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P271559  
 CATALOG NUMBER: ISS-AF-XXX-LED-E1-T4FT-7027-XXB

### Iso-Footcandle Lines of Horizontal Illumination

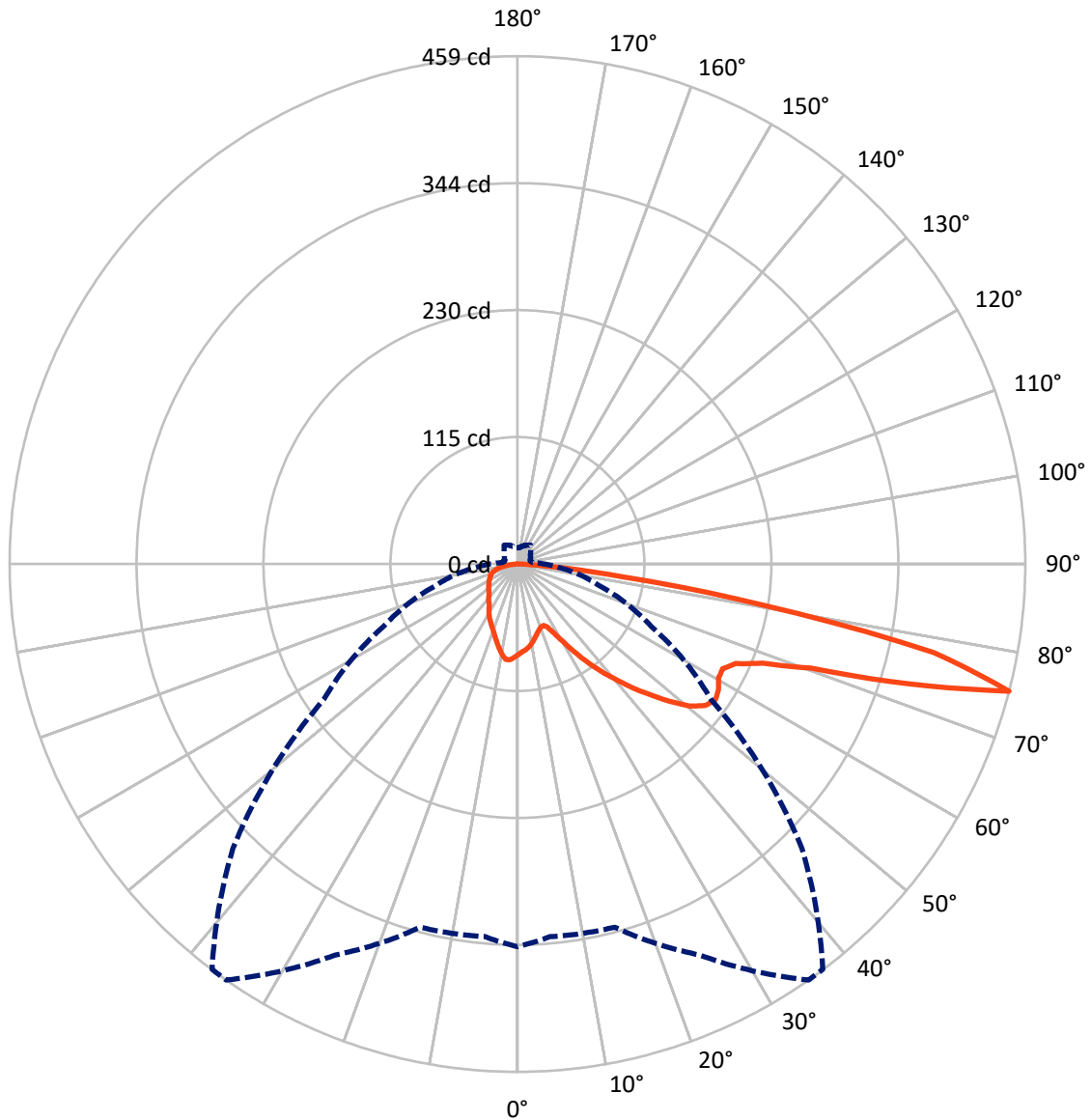
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P271559  
CATALOG NUMBER: ISS-AF-XXX-LED-E1-T4FT-7027-XXB

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P271559

CATALOG NUMBER: ISS-AF-XXX-LED-E1-T4FT-7027-XXB

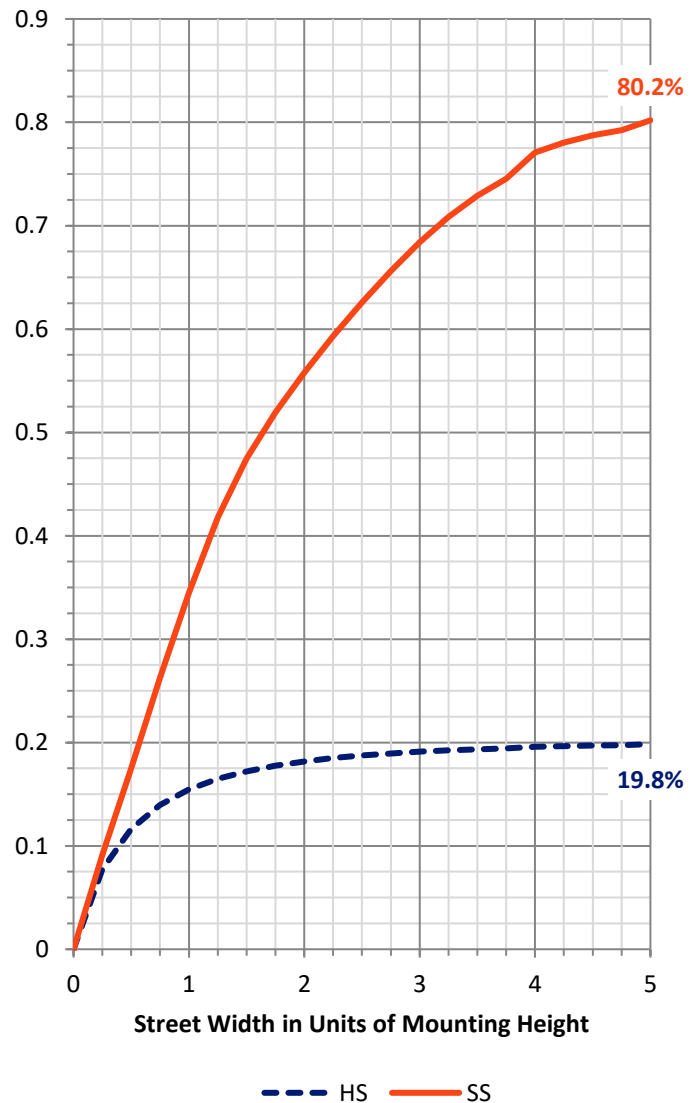
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	109.5	0.0	109.5
	% Fixture	20.1	0.0	20.1
<b>Street Side</b>	Lumens	436.2	0.0	436.2
	% Fixture	79.9	0.0	79.9
<b>Total</b>	Lumens	545.7	0.0	545.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.7	1.4
10°-20°	20.3	3.7
20°-30°	32.1	5.9
30°-40°	51.9	9.5
40°-50°	76.7	14.1
50°-60°	98.7	18.1
60°-70°	122.1	22.4
70°-80°	123.1	22.6
80°-90°	13.1	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°	545.7	100.0
0°-180°	545.7	100.0



REPORT NUMBER: P271559

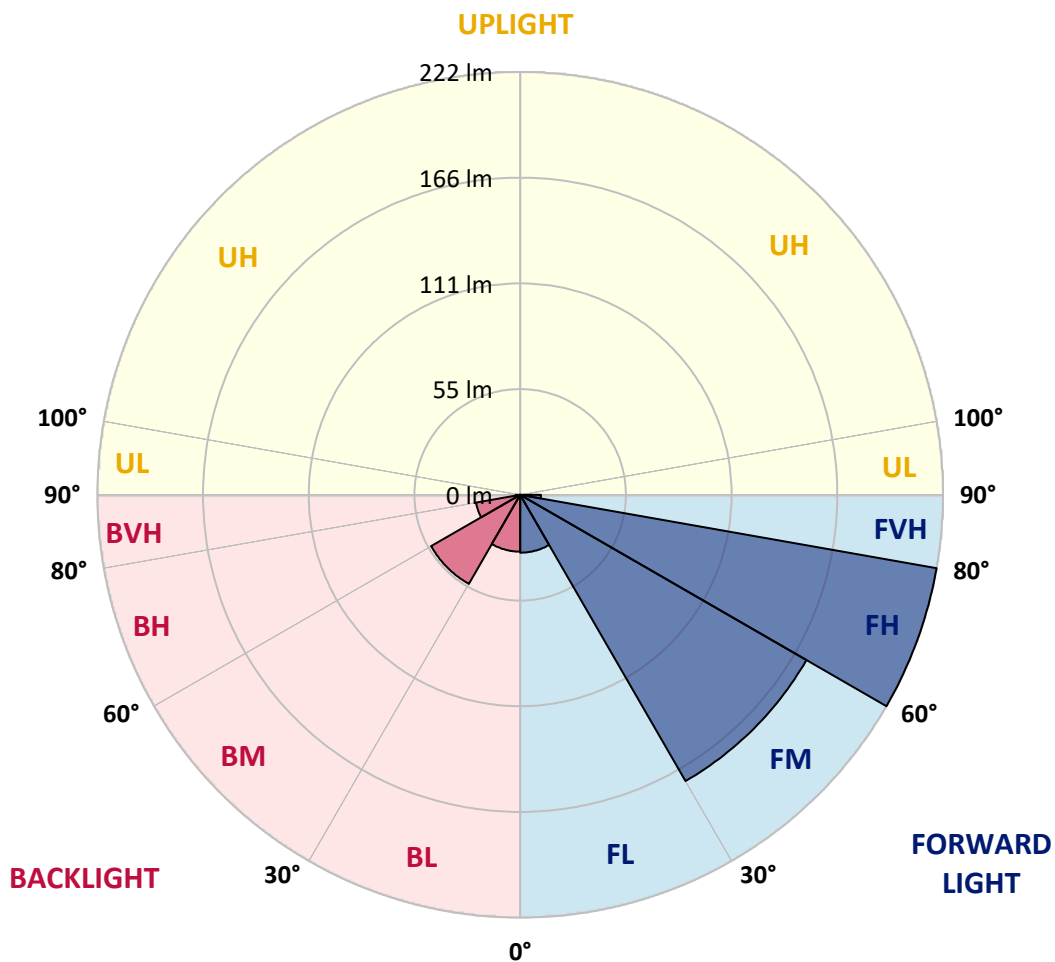
CATALOG NUMBER: ISS-AF-XXX-LED-E1-T4FT-7027-XXB

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	30.3	5.6			
FM	(30°-60°)	173.3	31.8			
FH	(60°-80°)	221.7	40.6			G0/660
FVH	(80°-90°)	10.9	2.0			G1/100
BL	(0°-30°)	29.8	5.5	B0/110		
BM	(30°-60°)	53.9	9.9	B0/220		
BH	(60°-80°)	23.5	4.3	B0/110		G0/110
BVH	(80°-90°)	2.3	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





REPORT NUMBER: P271559

CATALOG NUMBER: ISS-AF-XXX-LED-E1-T4FT-7027-XXB

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
2.5°	79.6	79.4	79.2	79.2	79.6	79.6	79.8	79.9	80.2	80.7	81.5
5°	77.4	77.3	77.1	77.3	77.8	77.8	78.3	78.7	79.1	79.9	80.8
7.5°	74.5	74.5	74.3	75.1	75.5	75.4	76.2	76.5	77.4	78.3	79.8
10°	70.7	70.7	70.7	71.5	72.5	72.5	73.0	74.0	74.6	76.0	77.8
12.5°	67.5	67.2	67.2	67.9	69.0	69.2	70.2	71.4	72.3	74.0	76.0
15°	66.4	65.9	65.0	65.0	65.6	65.6	67.0	68.9	70.2	72.0	74.3
17.5°	66.5	65.9	63.6	62.8	62.8	63.0	64.5	66.5	68.3	70.2	73.4
20°	68.1	67.2	62.8	61.3	60.8	61.1	62.3	64.3	66.5	69.2	72.8
22.5°	75.3	73.8	65.6	61.9	60.3	60.3	61.1	63.2	65.9	69.6	74.0
25°	91.6	89.2	74.6	68.1	63.2	62.7	61.4	63.6	66.8	71.2	77.6
27.5°	108.3	106.0	86.0	78.9	71.2	69.6	64.9	65.4	69.0	74.9	83.0
30°	122.3	120.5	100.3	92.0	81.7	79.9	72.8	69.2	72.9	79.9	91.3
32.5°	123.4	122.6	115.5	107.1	94.7	92.2	82.6	77.1	78.9	86.9	100.3
35°	133.7	132.9	129.2	121.1	108.8	105.8	95.6	87.2	86.8	94.5	110.4
37.5°	143.7	142.8	140.2	134.8	123.3	120.9	113.0	99.4	95.6	103.5	120.5
40°	153.3	151.9	148.7	145.5	137.2	137.2	128.5	111.1	104.2	111.3	128.7
42.5°	170.7	166.6	157.9	155.6	153.3	153.3	140.7	119.1	111.1	119.8	136.8
45°	187.5	183.6	171.8	167.1	168.3	167.6	150.3	123.7	117.3	127.9	144.4
47.5°	200.7	197.3	185.3	182.0	185.6	182.7	158.3	127.3	125.1	136.5	150.8
50°	212.6	204.5	192.8	197.1	201.7	196.8	165.4	132.8	132.9	145.5	160.2
52.5°	196.4	195.5	198.1	208.2	212.6	207.1	171.8	139.8	141.3	157.2	170.7
55°	176.9	176.7	191.7	211.6	216.9	211.7	176.0	148.1	150.1	171.6	184.1
57.5°	173.0	171.3	181.5	204.5	214.2	210.7	178.1	155.9	158.6	189.8	197.1
60°	185.5	182.0	180.4	197.1	208.8	207.0	180.9	165.2	168.7	210.7	209.3
62.5°	212.4	207.7	196.0	197.6	208.2	206.8	187.5	176.2	180.2	231.3	216.2
65°	248.1	244.7	226.0	212.8	216.9	214.8	199.3	190.0	192.1	246.2	208.4
67.5°	287.3	282.6	262.3	244.1	238.9	235.2	218.1	206.4	198.5	244.1	187.5
70°	331.6	326.4	308.9	290.2	281.5	277.3	250.9	220.6	196.2	220.1	148.0
72.5°	386.0	379.2	369.5	371.4	370.0	358.3	303.2	225.4	178.9	163.9	88.3
75°	345.9	338.1	339.8	389.9	459.0	458.6	363.6	213.7	133.4	77.3	38.3
77.5°	124.1	137.2	202.4	291.9	384.9	384.4	281.5	133.7	57.2	33.0	23.2
80°	31.1	31.7	50.2	119.8	224.8	223.0	159.6	50.5	23.9	20.0	15.8
82.5°	10.0	10.8	18.3	41.3	96.2	94.1	49.6	16.6	14.9	12.9	9.6
85°	3.2	3.2	6.6	14.2	31.7	30.5	10.0	6.0	8.3	6.7	4.4
87.5°	0.0	0.0	0.2	0.4	0.7	0.4	0.0	0.4	1.1	1.3	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



REPORT NUMBER: P271559

CATALOG NUMBER: ISS-AF-XXX-LED-E1-T4FT-7027-XXB

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9	81.9
2.5°	81.9	81.7	82.6	83.0	83.3	83.8	84.4	84.7	84.5	84.4	84.4
5°	81.7	81.9	83.3	84.4	85.2	86.1	86.9	87.2	87.0	87.0	87.0
7.5°	80.7	81.5	82.9	84.7	86.0	86.6	86.8	86.1	85.8	85.2	85.2
10°	78.9	79.9	82.4	84.4	84.9	84.2	83.0	81.9	80.5	79.6	79.6
12.5°	77.4	78.7	81.7	83.3	82.6	80.7	78.3	76.5	75.1	74.0	73.8
15°	76.2	77.8	80.8	81.3	79.6	76.5	73.4	71.4	69.8	69.0	69.0
17.5°	75.3	77.4	80.2	79.1	75.7	71.8	68.9	67.2	65.9	65.1	65.0
20°	75.4	78.2	79.4	76.4	71.5	67.5	64.7	63.8	62.8	62.5	62.5
22.5°	77.4	79.9	79.2	74.0	67.7	63.0	61.3	61.1	60.6	60.3	60.2
25°	81.7	83.6	79.8	71.5	63.8	59.0	58.1	58.7	58.5	58.1	58.1
27.5°	87.9	88.1	80.7	69.2	59.4	55.2	55.2	56.1	55.8	55.2	55.5
30°	95.1	93.1	81.0	65.4	54.3	51.6	52.1	52.6	52.3	51.6	51.6
32.5°	102.9	98.2	81.0	60.5	49.4	48.3	48.5	48.7	47.9	47.0	47.0
35°	110.6	103.1	80.2	54.7	45.5	44.9	44.8	45.5	44.9	43.7	43.7
37.5°	117.9	107.0	77.8	48.7	42.6	42.4	43.0	42.6	42.0	40.1	39.7
40°	123.0	109.5	73.0	43.7	40.2	41.3	41.1	39.0	37.9	36.7	36.7
42.5°	127.5	110.9	67.2	39.9	38.5	40.1	38.5	36.1	34.7	34.5	34.7
45°	131.7	111.9	61.5	36.8	36.7	38.5	36.8	34.0	32.4	32.4	32.6
47.5°	135.7	113.0	56.0	33.9	34.2	36.4	35.3	32.6	31.0	29.8	29.8
50°	142.1	115.5	47.7	30.8	31.5	34.7	34.2	31.1	29.4	27.7	27.3
52.5°	149.7	119.8	38.8	27.5	29.6	33.0	33.0	29.8	27.8	25.7	25.3
55°	160.0	124.7	31.1	25.2	27.5	31.1	31.7	29.4	26.4	24.4	24.1
57.5°	170.2	126.2	25.2	22.7	25.0	29.4	30.8	28.3	24.7	23.4	23.2
60°	177.2	120.9	21.1	20.8	23.2	27.2	29.6	26.9	23.6	22.2	22.2
62.5°	176.2	104.9	19.0	19.5	21.6	25.5	28.5	25.9	23.0	22.1	21.9
65°	160.7	79.2	17.1	18.3	20.4	23.9	27.3	25.3	22.5	21.6	21.3
67.5°	135.4	52.6	15.8	17.2	19.1	22.5	26.4	24.6	21.5	20.9	20.6
70°	98.1	30.8	14.6	16.2	17.9	21.1	25.2	23.2	20.2	19.9	19.0
72.5°	53.0	19.3	13.1	14.7	16.2	19.3	23.2	21.3	18.5	17.1	16.6
75°	24.3	14.0	11.7	13.1	14.2	17.0	20.8	18.8	16.6	14.7	14.5
77.5°	16.2	10.6	9.8	11.3	11.9	14.2	18.3	14.9	12.9	11.7	11.3
80°	11.0	7.8	8.1	9.3	9.2	11.3	13.8	12.0	10.2	10.6	9.6
82.5°	7.1	5.5	6.2	6.6	6.4	8.5	10.8	9.2	7.6	6.4	5.5
85°	3.1	3.0	3.6	3.9	3.9	4.7	5.7	4.5	3.4	2.5	2.5
87.5°	0.2	0.4	0.4	0.6	0.4	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)