

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: P227824

Luminaire Tested: **ISS-AF-XXX-LED-E1-T4FT-7030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227824
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-7030-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCUELED OPTICS-TYPE IV FORWARD THROW
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 556 lumens
Efficiency: N/A
Efficacy: 42.8 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

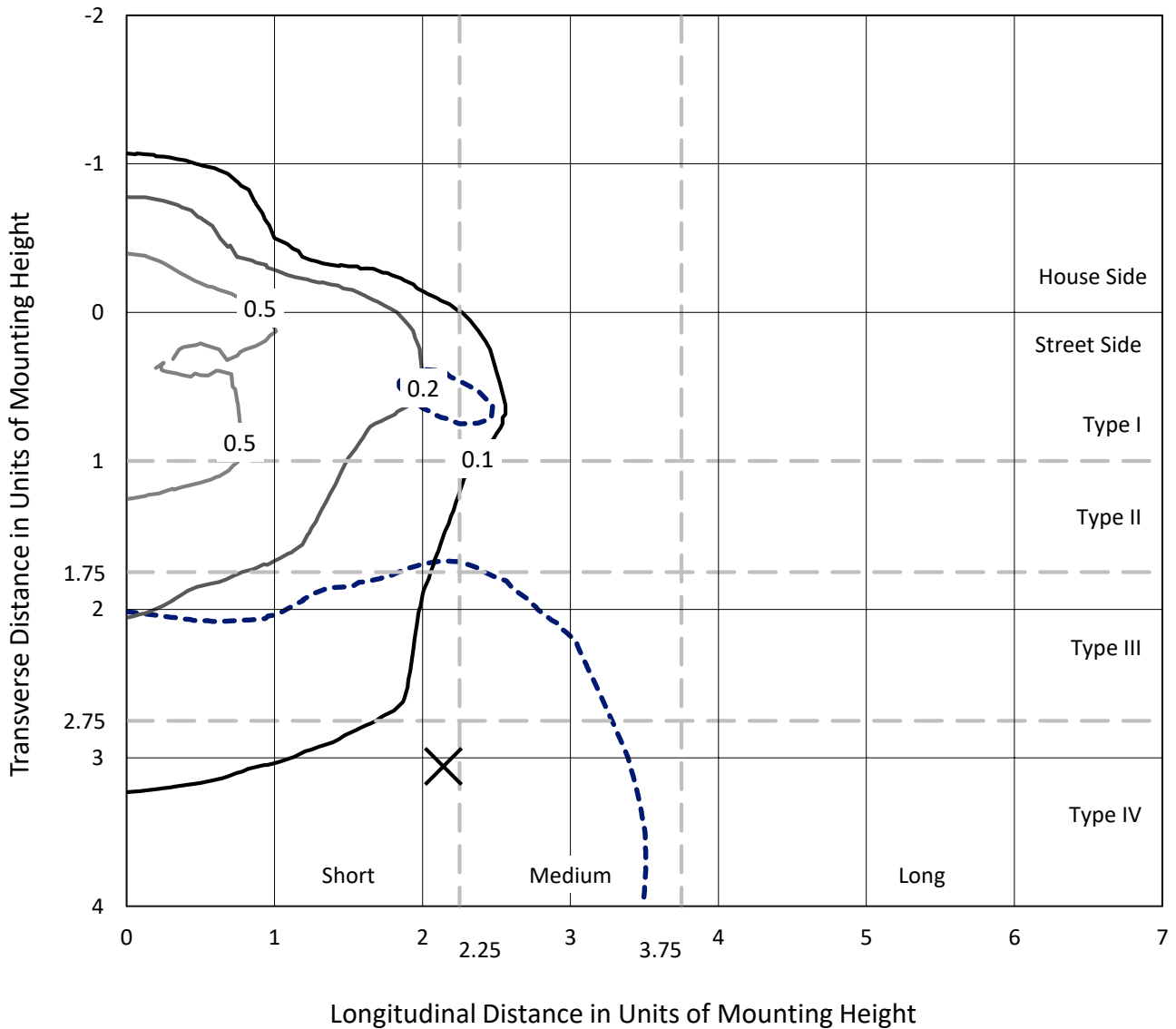
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

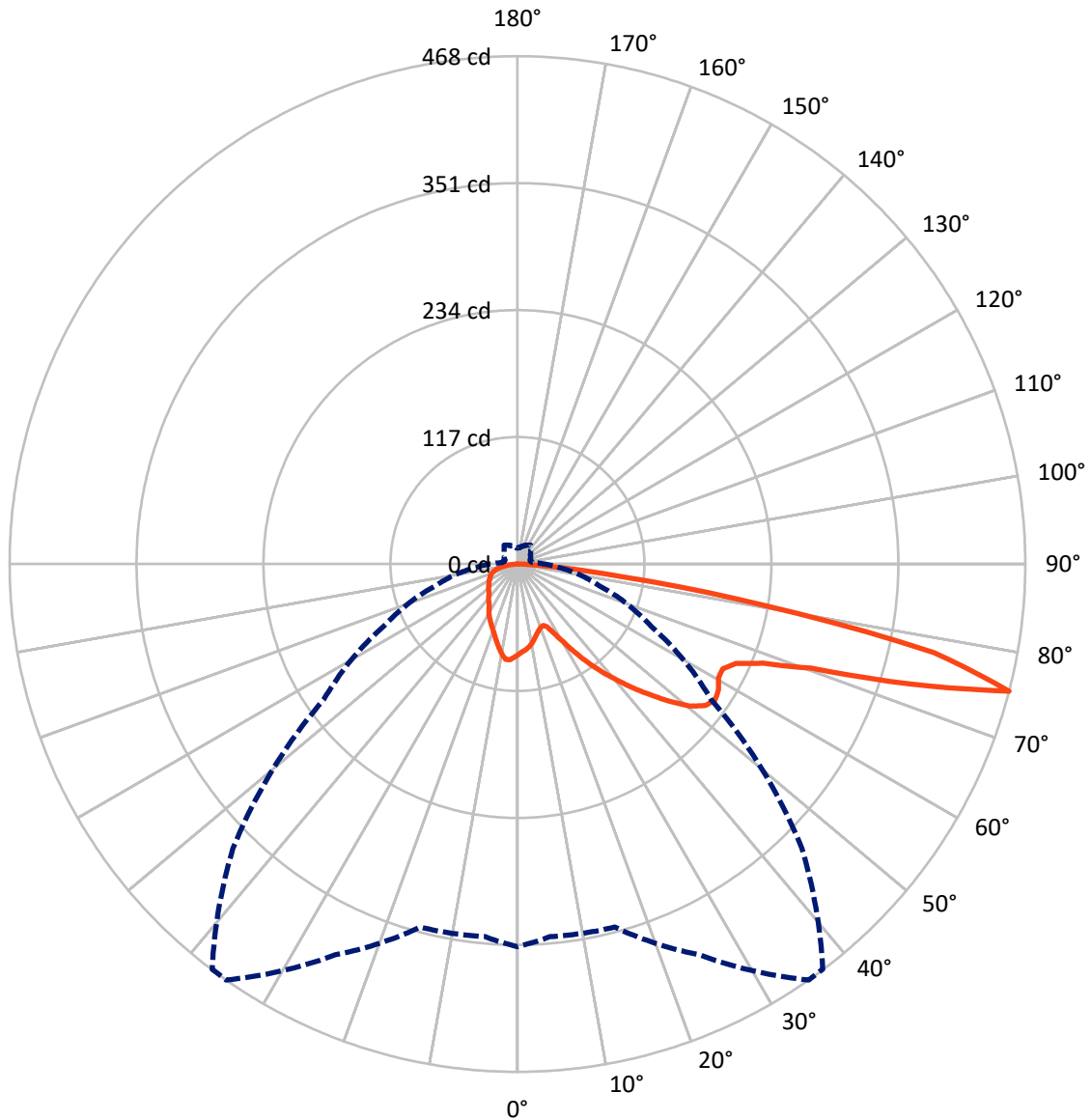
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.9 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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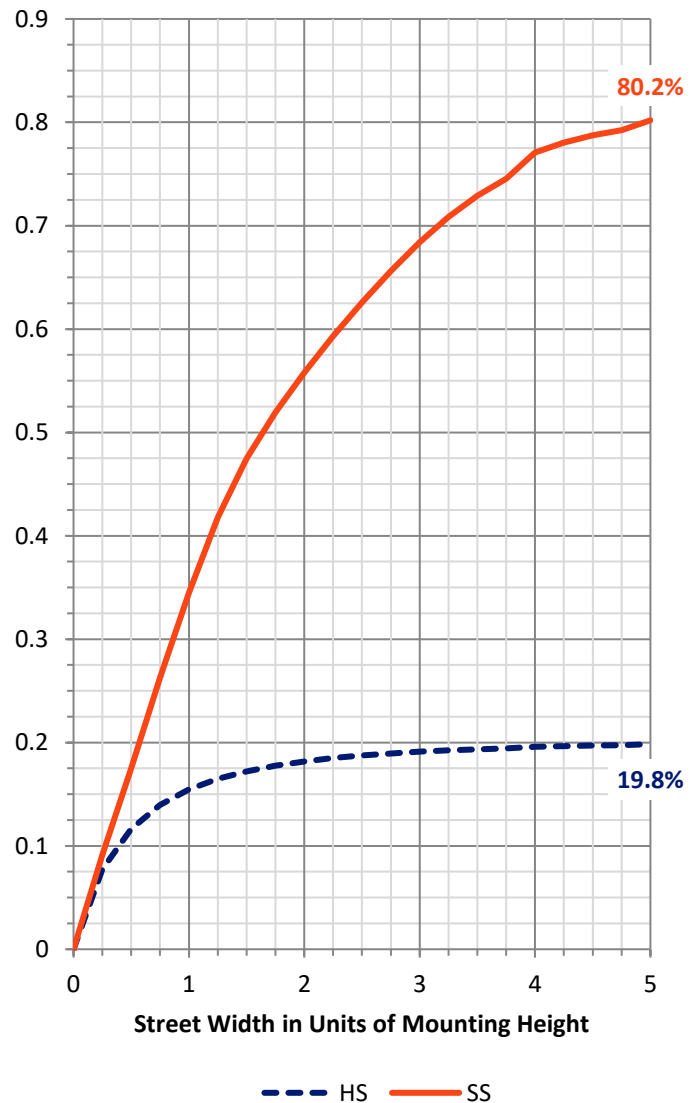
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	111.6	0.0	111.6
	% Fixture	20.1	0.0	20.1
Street Side	Lumens	444.4	0.0	444.4
	% Fixture	79.9	0.0	79.9
Total	Lumens	556.0	0.0	556.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	1.4
10°-20°	20.7	3.7
20°-30°	32.7	5.9
30°-40°	52.8	9.5
40°-50°	78.2	14.1
50°-60°	100.5	18.1
60°-70°	124.4	22.4
70°-80°	125.4	22.6
80°-90°	13.4	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°	556.0	100.0
0°-180°	556.0	100.0



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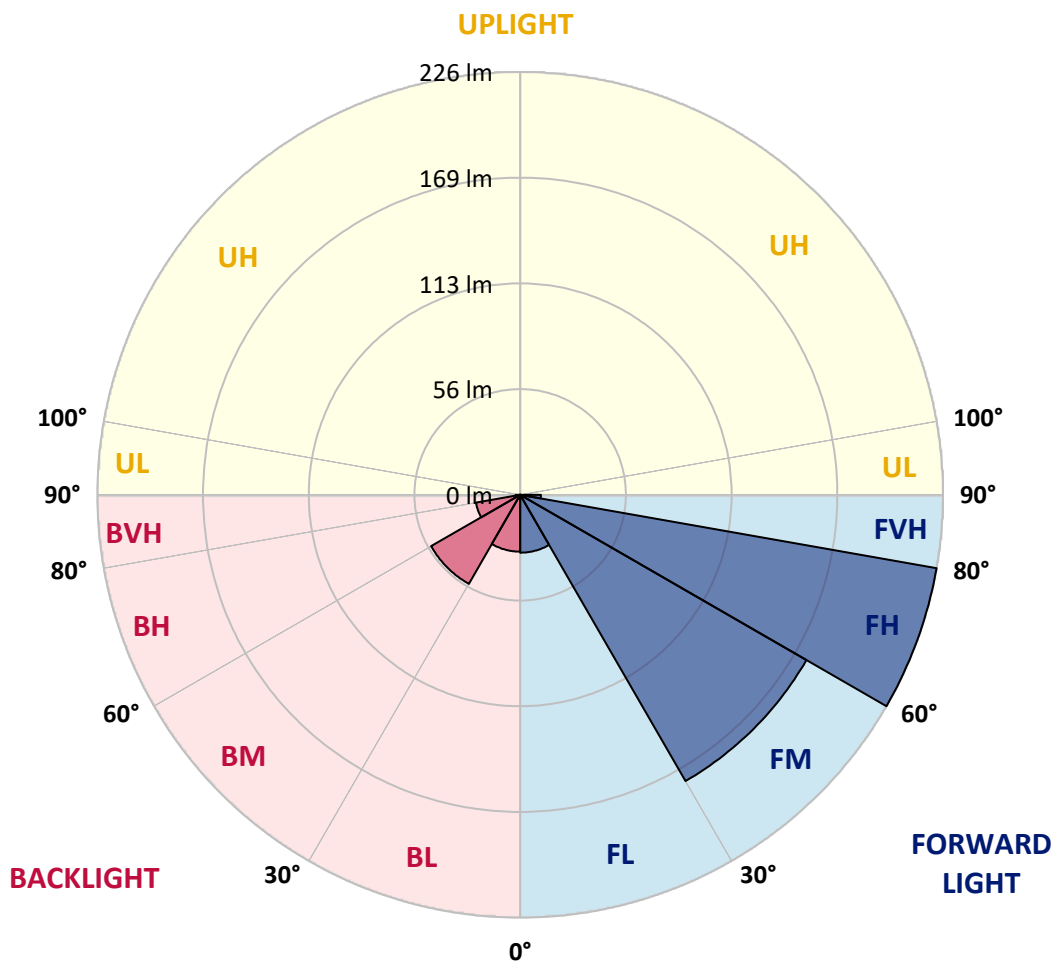
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	30.9	5.6			
FM	(30°-60°)	176.5	31.8			
FH	(60°-80°)	225.9	40.6			G0/660
FVH	(80°-90°)	11.1	2.0			G1/100
BL	(0°-30°)	30.3	5.5	B0/110		
BM	(30°-60°)	54.9	9.9	B0/220		
BH	(60°-80°)	24.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
2.5°	81.1	80.9	80.7	80.7	81.1	81.1	81.3	81.5	81.7	82.2	83.0
5°	78.9	78.7	78.5	78.7	79.3	79.3	79.8	80.2	80.6	81.5	82.4
7.5°	75.9	75.9	75.7	76.5	77.0	76.8	77.6	78.0	78.9	79.8	81.3
10°	72.0	72.0	72.0	72.9	73.9	73.9	74.4	75.4	76.1	77.4	79.3
12.5°	68.7	68.5	68.5	69.2	70.3	70.5	71.5	72.8	73.7	75.4	77.4
15°	67.6	67.2	66.3	66.3	66.8	66.8	68.3	70.2	71.6	73.3	75.7
17.5°	67.7	67.2	64.8	64.0	64.0	64.2	65.7	67.7	69.6	71.6	74.8
20°	69.4	68.5	64.0	62.4	62.0	62.2	63.5	65.5	67.7	70.5	74.1
22.5°	76.7	75.2	66.8	63.1	61.4	61.4	62.2	64.4	67.2	70.9	75.4
25°	93.4	90.9	76.1	69.4	64.4	63.9	62.6	64.8	68.1	72.6	79.1
27.5°	110.4	108.0	87.6	80.4	72.6	70.9	66.1	66.6	70.3	76.3	84.6
30°	124.7	122.7	102.1	93.7	83.3	81.5	74.1	70.5	74.2	81.5	93.0
32.5°	125.8	124.9	117.7	109.1	96.5	93.9	84.1	78.5	80.4	88.5	102.1
35°	136.2	135.5	131.6	123.4	110.8	107.8	97.4	88.9	88.4	96.3	112.5
37.5°	146.4	145.5	142.9	137.4	125.7	123.2	115.1	101.3	97.4	105.4	122.7
40°	156.1	154.8	151.5	148.3	139.8	139.8	131.0	113.2	106.2	113.4	131.2
42.5°	173.9	169.8	160.9	158.5	156.1	156.1	143.3	121.4	113.2	122.1	139.4
45°	191.0	187.1	175.0	170.2	171.5	170.8	153.1	126.0	119.5	130.3	147.2
47.5°	204.5	201.0	188.8	185.4	189.1	186.2	161.3	129.7	127.5	139.0	153.7
50°	216.6	208.3	196.4	200.8	205.5	200.5	168.5	135.3	135.5	148.3	163.2
52.5°	200.1	199.2	201.8	212.2	216.6	211.0	175.0	142.4	144.0	160.2	173.9
55°	180.2	180.0	195.3	215.5	220.9	215.7	179.3	150.9	152.9	174.8	187.5
57.5°	176.3	174.5	184.9	208.4	218.3	214.6	181.5	158.9	161.5	193.4	200.8
60°	189.0	185.4	183.8	200.8	212.7	210.9	184.3	168.3	171.9	214.6	213.3
62.5°	216.4	211.6	199.7	201.4	212.2	210.7	191.0	179.5	183.6	235.7	220.3
65°	252.8	249.3	230.3	216.8	220.9	218.8	203.1	193.6	195.8	250.9	212.3
67.5°	292.7	287.9	267.3	248.7	243.5	239.6	222.2	210.3	202.3	248.7	191.0
70°	337.8	332.6	314.8	295.7	286.8	282.5	255.6	224.8	199.9	224.2	150.7
72.5°	393.3	386.3	376.4	378.5	377.0	365.1	308.9	229.6	182.3	166.9	90.0
75°	352.5	344.5	346.2	397.2	467.7	467.2	370.5	217.7	135.9	78.7	39.0
77.5°	126.4	139.8	206.2	297.5	392.2	391.6	286.8	136.2	58.3	33.6	23.6
80°	31.7	32.3	51.2	122.1	229.0	227.2	162.6	51.4	24.3	20.4	16.1
82.5°	10.2	11.0	18.7	42.1	98.0	95.8	50.5	16.9	15.2	13.2	9.8
85°	3.3	3.3	6.7	14.5	32.3	31.0	10.2	6.1	8.4	6.9	4.5
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
2.5°	83.5	83.3	84.1	84.6	84.8	85.4	85.9	86.3	86.1	85.9	85.9
5°	83.3	83.5	84.8	85.9	86.9	87.8	88.5	88.9	88.7	88.7	88.7
7.5°	82.2	83.0	84.5	86.3	87.6	88.2	88.4	87.8	87.4	86.9	86.9
10°	80.4	81.5	83.9	85.9	86.5	85.8	84.6	83.5	82.0	81.1	81.1
12.5°	78.9	80.2	83.2	84.8	84.1	82.2	79.8	78.0	76.5	75.4	75.2
15°	77.6	79.3	82.4	82.8	81.1	78.0	74.8	72.8	71.1	70.3	70.3
17.5°	76.7	78.9	81.7	80.6	77.2	73.1	70.2	68.5	67.2	66.4	66.3
20°	76.8	79.6	80.9	77.8	72.9	68.7	65.9	65.0	64.0	63.7	63.7
22.5°	78.9	81.5	80.7	75.4	69.0	64.2	62.4	62.2	61.8	61.4	61.3
25°	83.3	85.2	81.3	72.9	65.0	60.1	59.2	59.8	59.6	59.2	59.2
27.5°	89.5	89.8	82.2	70.5	60.5	56.2	56.2	57.2	56.8	56.2	56.6
30°	96.9	94.8	82.6	66.6	55.3	52.5	53.1	53.6	53.3	52.5	52.5
32.5°	104.9	100.0	82.6	61.6	50.3	49.2	49.4	49.6	48.8	47.9	47.9
35°	112.7	105.1	81.7	55.7	46.4	45.8	45.7	46.4	45.8	44.5	44.5
37.5°	120.1	109.0	79.3	49.6	43.4	43.2	43.8	43.4	42.7	40.8	40.5
40°	125.3	111.6	74.4	44.5	41.0	42.1	41.8	39.7	38.6	37.3	37.3
42.5°	129.9	112.9	68.5	40.6	39.3	40.8	39.3	36.8	35.3	35.1	35.3
45°	134.2	114.0	62.7	37.5	37.3	39.3	37.5	34.7	33.0	33.0	33.2
47.5°	138.3	115.1	57.0	34.5	34.9	37.1	36.0	33.2	31.6	30.4	30.4
50°	144.8	117.7	48.6	31.4	32.1	35.3	34.9	31.7	29.9	28.2	27.8
52.5°	152.6	122.1	39.5	28.0	30.1	33.6	33.6	30.4	28.4	26.2	25.8
55°	163.0	127.0	31.7	25.6	28.0	31.7	32.3	29.9	26.9	24.9	24.5
57.5°	173.4	128.6	25.6	23.2	25.4	29.9	31.4	28.8	25.2	23.8	23.6
60°	180.6	123.2	21.5	21.2	23.6	27.7	30.1	27.5	24.1	22.6	22.6
62.5°	179.5	106.9	19.3	19.9	22.1	26.0	29.0	26.4	23.4	22.5	22.3
65°	163.7	80.7	17.4	18.7	20.8	24.3	27.8	25.8	23.0	22.1	21.7
67.5°	137.9	53.6	16.1	17.6	19.5	23.0	26.9	25.1	21.9	21.3	21.0
70°	99.9	31.4	14.8	16.5	18.2	21.5	25.6	23.6	20.6	20.2	19.3
72.5°	54.0	19.7	13.4	15.0	16.5	19.7	23.6	21.7	18.9	17.4	16.9
75°	24.7	14.3	11.9	13.4	14.5	17.3	21.2	19.1	16.9	15.0	14.7
77.5°	16.5	10.8	10.0	11.5	12.1	14.5	18.7	15.2	13.2	11.9	11.5
80°	11.3	8.0	8.2	9.5	9.3	11.5	14.1	12.3	10.4	10.8	9.8
82.5°	7.2	5.6	6.3	6.7	6.5	8.7	11.0	9.3	7.8	6.5	5.6
85°	3.2	3.0	3.7	3.9	3.9	4.8	5.8	4.6	3.5	2.6	2.6
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)