

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: P400730

Luminaire Tested: **ENV-SA1-730-U-SL2-XXB**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1-730-U-SL2-XXB  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3000K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 694 lumens  
Efficiency: N/A  
Efficacy: 53.4 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 - G1

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

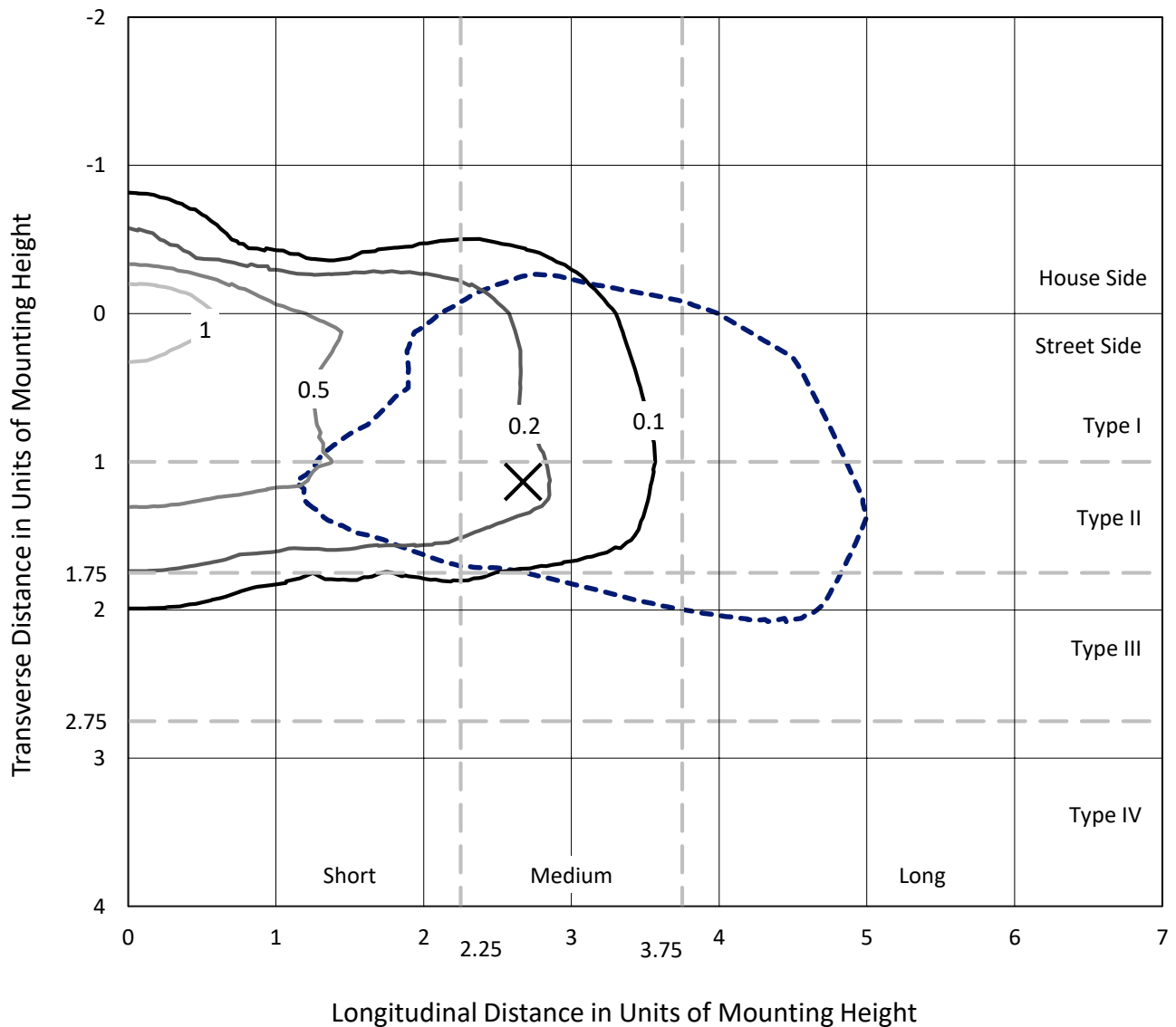


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

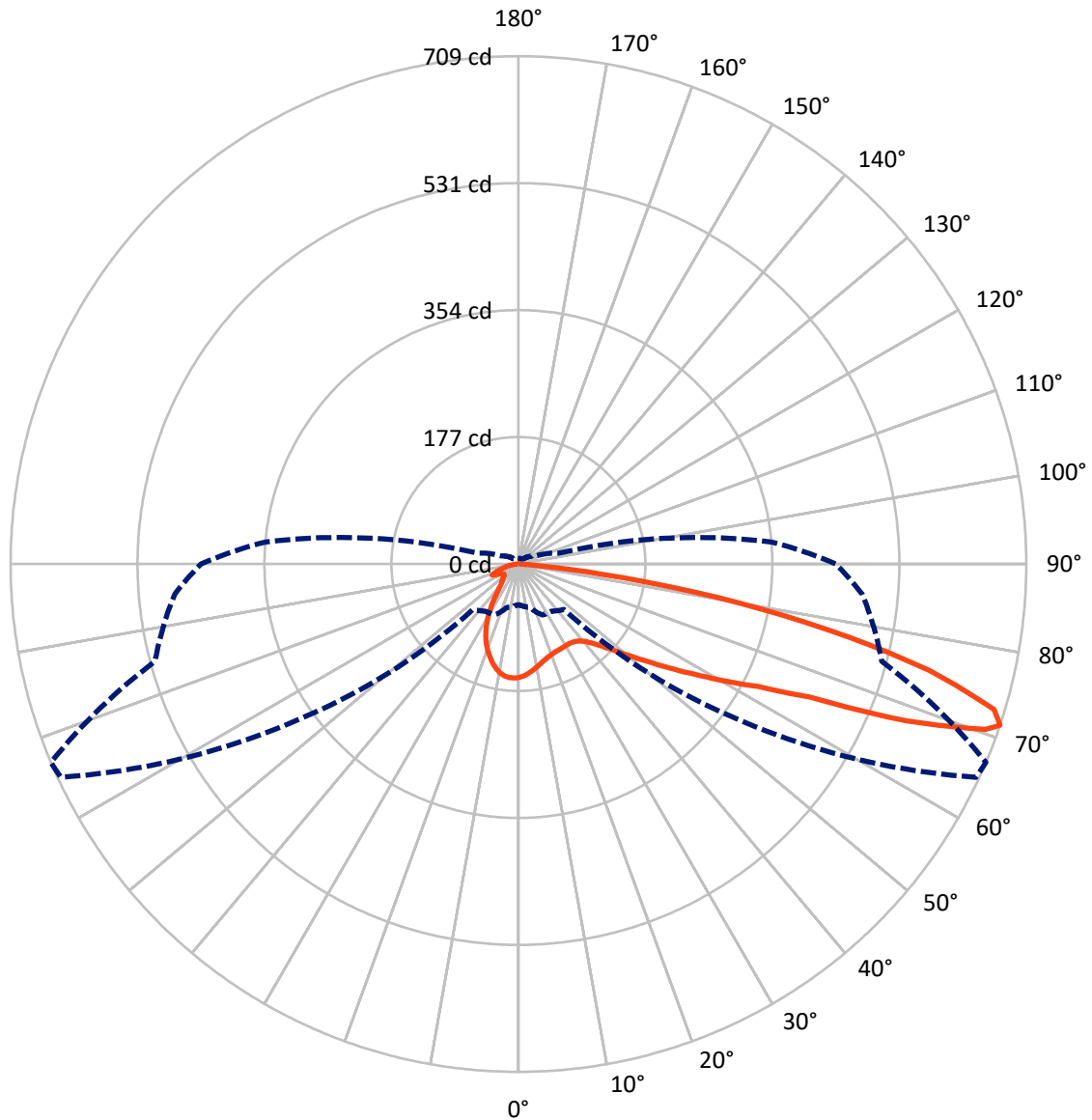


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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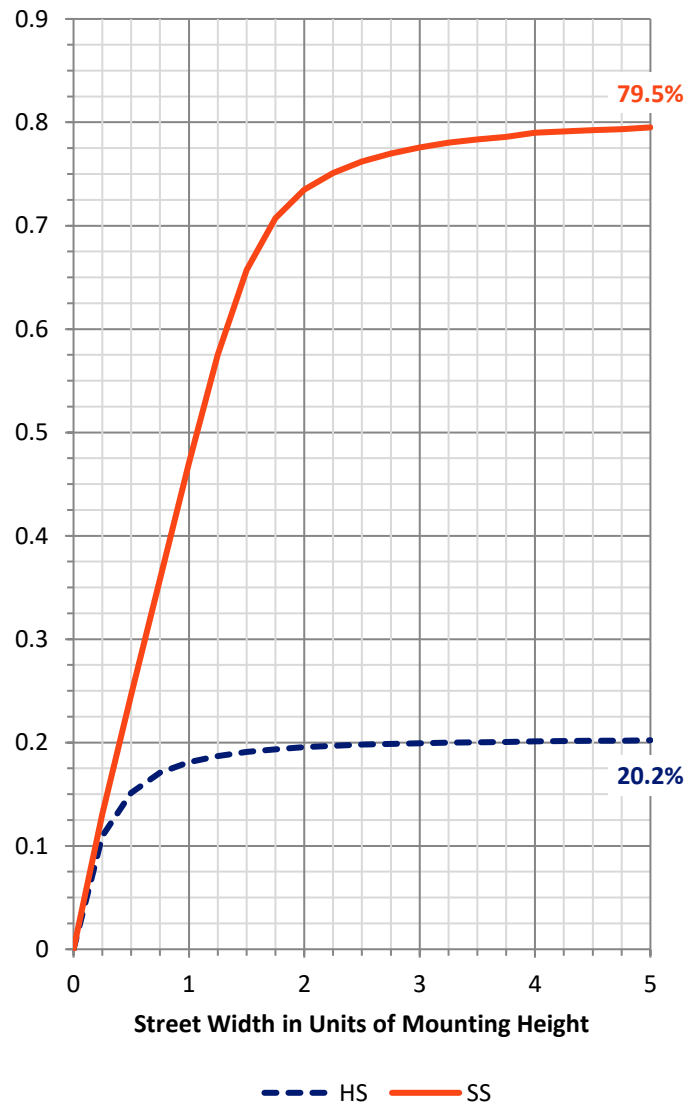
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	142.2	0.0	142.2
	% Fixture	20.5	0.0	20.5
<b>Street Side</b>	Lumens	551.8	0.0	551.8
	% Fixture	79.5	0.0	79.5
<b>Total</b>	Lumens	694.0	0.0	694.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.0	2.0
10°-20°	34.5	5.0
20°-30°	46.5	6.7
30°-40°	61.3	8.8
40°-50°	87.3	12.6
50°-60°	133.3	19.2
60°-70°	166.5	24.0
70°-80°	134.4	19.4
80°-90°	16.2	2.3
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°	694.0	100.0
0°-180°	694.0	100.0



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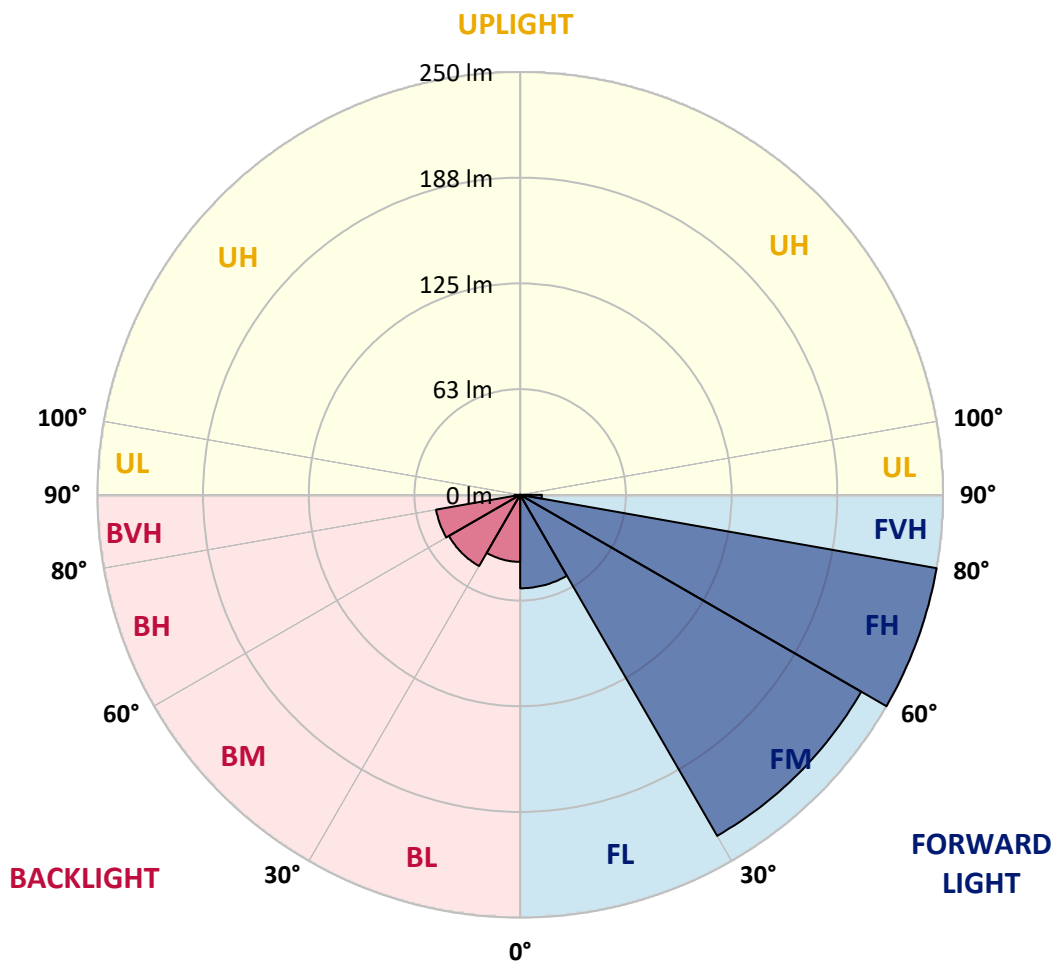
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	55.4	8.0			
FM	(30°-60°)	233.2	33.6			
FH	(60°-80°)	250.4	36.1			G0/660
FVH	(80°-90°)	12.9	1.9			G1/100
BL	(0°-30°)	39.7	5.7	B0/110		
BM	(30°-60°)	48.7	7.0	B0/220		
BH	(60°-80°)	50.5	7.3	B0/110		G0/110
BVH	(80°-90°)	3.3	0.5			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3
2.5°	149.3	150.0	150.1	151.5	152.0	153.6	154.5	156.0	156.2	157.1	157.7
5°	139.6	139.7	140.3	141.5	143.4	146.3	148.5	152.2	152.9	155.5	157.8
7.5°	130.9	131.4	132.4	134.2	136.4	139.8	143.2	148.3	149.3	153.5	157.9
10°	125.0	125.5	126.3	128.3	130.5	134.3	138.4	144.3	145.4	151.2	157.6
12.5°	120.3	120.8	121.4	123.6	126.0	129.8	134.0	140.6	141.7	148.4	156.9
15°	117.2	117.3	118.1	119.9	122.6	126.3	130.5	137.3	138.6	146.2	156.7
17.5°	115.3	115.5	116.2	117.6	120.0	123.6	127.7	134.6	136.1	144.4	156.8
20°	115.4	115.6	116.0	116.5	118.2	121.3	125.6	132.6	134.1	143.3	157.5
22.5°	117.5	117.6	117.7	117.0	117.6	119.8	124.0	131.2	132.8	142.8	158.3
25°	121.5	121.5	121.3	119.7	118.4	119.3	123.1	130.7	132.3	142.4	159.0
27.5°	127.0	127.4	126.4	124.5	121.5	120.0	122.9	130.3	131.9	142.4	159.4
30°	134.5	134.7	134.3	131.8	126.9	122.8	123.5	130.0	131.6	142.2	159.5
32.5°	142.1	142.7	143.2	141.0	135.1	127.8	125.9	130.4	131.8	142.1	159.2
35°	149.8	150.2	152.6	152.2	145.8	135.3	129.8	132.0	133.2	142.6	159.4
37.5°	156.4	157.3	160.7	163.4	158.5	145.5	136.5	135.5	136.2	145.1	160.5
40°	163.4	164.7	169.9	175.0	172.8	158.3	146.0	141.8	141.6	149.7	163.2
42.5°	171.4	172.9	179.6	187.0	187.7	174.5	158.7	150.7	150.5	157.6	169.1
45°	180.8	182.2	191.3	200.1	204.4	192.7	174.2	163.2	163.3	168.5	178.5
47.5°	192.4	194.6	203.4	214.6	222.3	213.2	193.1	180.8	180.0	185.1	193.9
50°	208.7	210.5	217.8	228.7	242.2	238.0	216.9	202.0	201.4	203.8	214.5
52.5°	225.8	226.4	229.9	241.2	263.9	268.0	246.2	228.3	226.0	227.3	240.1
55°	226.8	228.1	230.4	244.7	283.3	304.1	278.4	259.3	256.3	255.4	269.1
57.5°	206.0	208.1	211.1	229.6	284.1	345.8	324.3	295.4	290.0	285.5	300.2
60°	161.9	164.6	170.1	192.8	263.9	369.6	400.8	336.0	331.2	315.9	330.6
62.5°	117.1	118.2	123.5	133.7	209.4	370.9	480.5	388.9	377.0	345.5	356.8
65°	94.3	96.1	97.7	97.6	124.0	329.0	533.5	483.1	447.3	378.5	385.5
67.5°	77.7	78.3	82.2	89.0	84.3	203.2	538.8	620.8	584.4	423.1	419.7
70°	64.9	65.1	69.0	81.2	80.7	104.9	451.8	700.0	691.2	496.2	473.2
71°	56.8	58.5	62.8	78.6	80.3	89.6	383.8	704.2	708.6	524.9	481.4
72.5°	44.8	44.8	50.9	72.1	81.0	82.7	282.8	681.4	694.0	557.5	467.1
75°	26.3	26.1	29.4	50.3	82.8	82.4	154.5	566.3	591.9	563.4	432.3
77.5°	14.8	15.1	16.9	28.0	65.7	79.1	88.7	412.3	442.6	471.3	365.6
80°	6.8	7.2	8.5	13.6	38.8	68.3	63.3	267.7	279.2	283.2	172.7
82.5°	1.8	2.0	2.6	5.2	15.0	46.6	46.9	112.1	115.8	66.9	37.1
85°	0.0	0.0	0.0	0.0	0.2	5.7	13.3	20.2	16.8	8.9	7.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.4	0.4	0.4	0.5
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°	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3	158.3
2.5°	158.2	158.6	159.2	159.1	158.9	157.8	158.5	157.8	157.7	157.4	157.5
5°	158.6	159.1	159.5	158.7	157.2	154.6	153.7	151.4	149.9	149.1	148.7
7.5°	159.1	159.5	159.3	156.9	153.0	148.1	143.9	140.6	137.1	136.5	136.3
10°	159.1	159.5	158.0	153.2	146.5	138.8	132.4	127.0	121.6	119.6	119.9
12.5°	158.7	158.9	155.3	147.6	137.9	127.4	118.4	109.5	102.6	98.4	97.6
15°	158.5	158.2	151.7	140.6	127.7	114.7	101.1	89.1	80.9	75.4	74.7
17.5°	158.5	157.4	147.4	132.6	116.6	98.7	80.7	67.7	58.6	55.4	55.3
20°	158.7	156.3	142.8	124.3	102.8	79.7	60.2	49.2	45.8	45.3	45.4
22.5°	158.8	154.8	137.8	114.9	87.4	59.4	43.1	39.1	39.4	40.6	40.5
25°	158.7	152.8	131.9	104.4	70.6	42.9	34.8	33.8	35.6	37.0	37.4
27.5°	158.2	150.2	125.6	91.9	53.8	33.8	30.4	30.3	32.1	33.4	33.3
30°	156.7	147.1	118.3	78.7	38.9	28.8	27.4	27.7	28.9	30.1	30.1
32.5°	155.1	143.6	110.6	64.3	29.9	26.1	25.6	25.7	26.5	27.4	27.3
35°	153.4	140.2	102.7	49.4	26.2	24.5	24.3	24.2	24.5	24.7	24.7
37.5°	152.4	137.2	94.0	37.2	24.2	23.5	23.1	22.7	22.6	22.4	22.2
40°	152.8	135.2	85.6	28.8	23.0	22.4	21.8	21.2	20.8	20.6	20.5
42.5°	155.6	134.6	76.3	24.8	21.9	21.4	20.6	19.6	19.2	19.2	19.1
45°	162.0	136.4	67.6	22.8	20.9	20.3	19.0	18.3	18.0	18.1	18.1
47.5°	172.2	141.5	59.8	21.8	20.2	19.3	17.8	17.1	16.9	17.0	17.0
50°	187.5	151.1	51.9	20.9	19.4	18.2	16.9	16.1	15.8	15.8	15.8
52.5°	209.9	166.8	46.1	20.3	18.7	17.3	16.0	15.1	14.7	14.7	14.6
55°	237.2	187.4	43.9	19.9	17.8	16.5	15.1	14.2	13.6	13.4	13.5
57.5°	267.0	214.1	47.1	19.8	16.8	15.6	14.2	13.1	12.5	12.4	12.3
60°	297.8	240.6	56.2	19.3	16.0	14.5	13.2	12.2	11.6	11.4	11.3
62.5°	324.4	266.9	71.4	18.9	15.4	13.5	12.1	11.2	10.7	10.4	10.4
65°	356.5	297.2	94.6	19.4	15.1	12.5	11.1	10.3	9.9	9.6	9.6
67.5°	400.2	342.1	112.2	21.8	15.8	11.7	10.0	9.4	9.1	8.9	8.9
70°	443.3	367.3	78.0	25.6	17.6	11.0	9.0	8.6	8.4	8.2	8.2
71°	442.7	353.8	58.6	26.5	18.2	10.8	8.6	8.3	8.1	8.0	7.9
72.5°	420.5	321.6	42.1	25.7	17.9	10.2	8.1	7.8	7.6	7.6	7.5
75°	377.1	283.4	32.9	21.5	15.0	9.1	7.2	7.0	6.8	6.7	6.8
77.5°	309.0	226.8	25.9	17.0	11.4	7.5	6.4	6.1	6.0	5.9	6.0
80°	142.0	98.8	18.9	13.2	8.5	6.0	5.4	5.3	5.2	5.1	5.1
82.5°	34.2	27.7	10.1	8.8	5.8	4.6	4.3	4.3	4.3	4.2	4.2
85°	7.5	7.5	4.1	4.1	3.5	3.2	3.4	3.4	3.4	3.2	3.2
87.5°	0.4	1.2	1.3	1.9	2.0	1.9	2.3	2.4	2.3	2.2	2.1
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)