

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: P400750

Luminaire Tested: **ENV-SA1-735-U-SL3-XXB**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400750  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1-735-U-SL3-XXB  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3500K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 711 lumens  
Efficiency: N/A  
Efficacy: 54.7 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

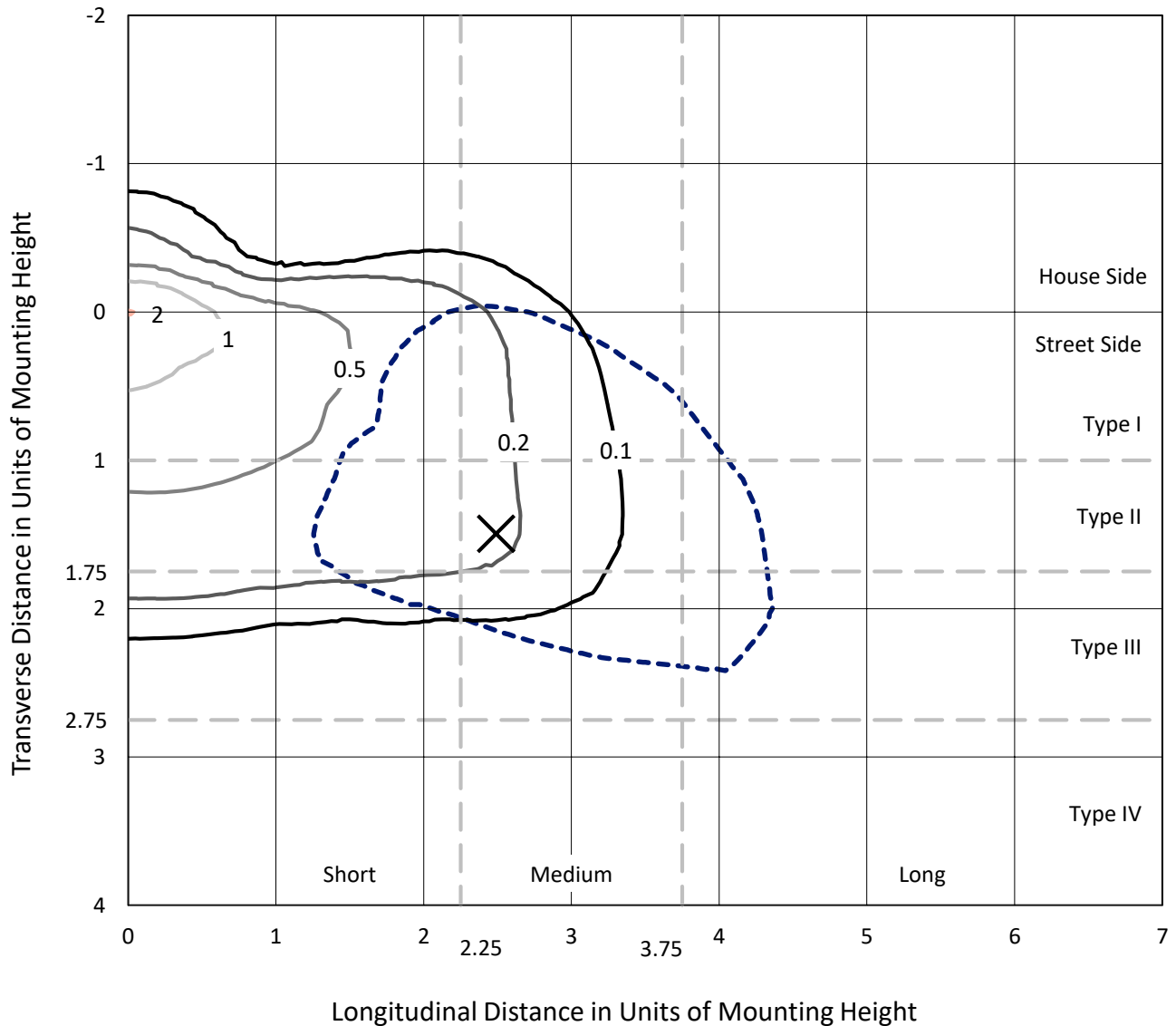


REPORT NUMBER: P400750

CATALOG NUMBER: ENV-SA1-735-U-SL3-XXB

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

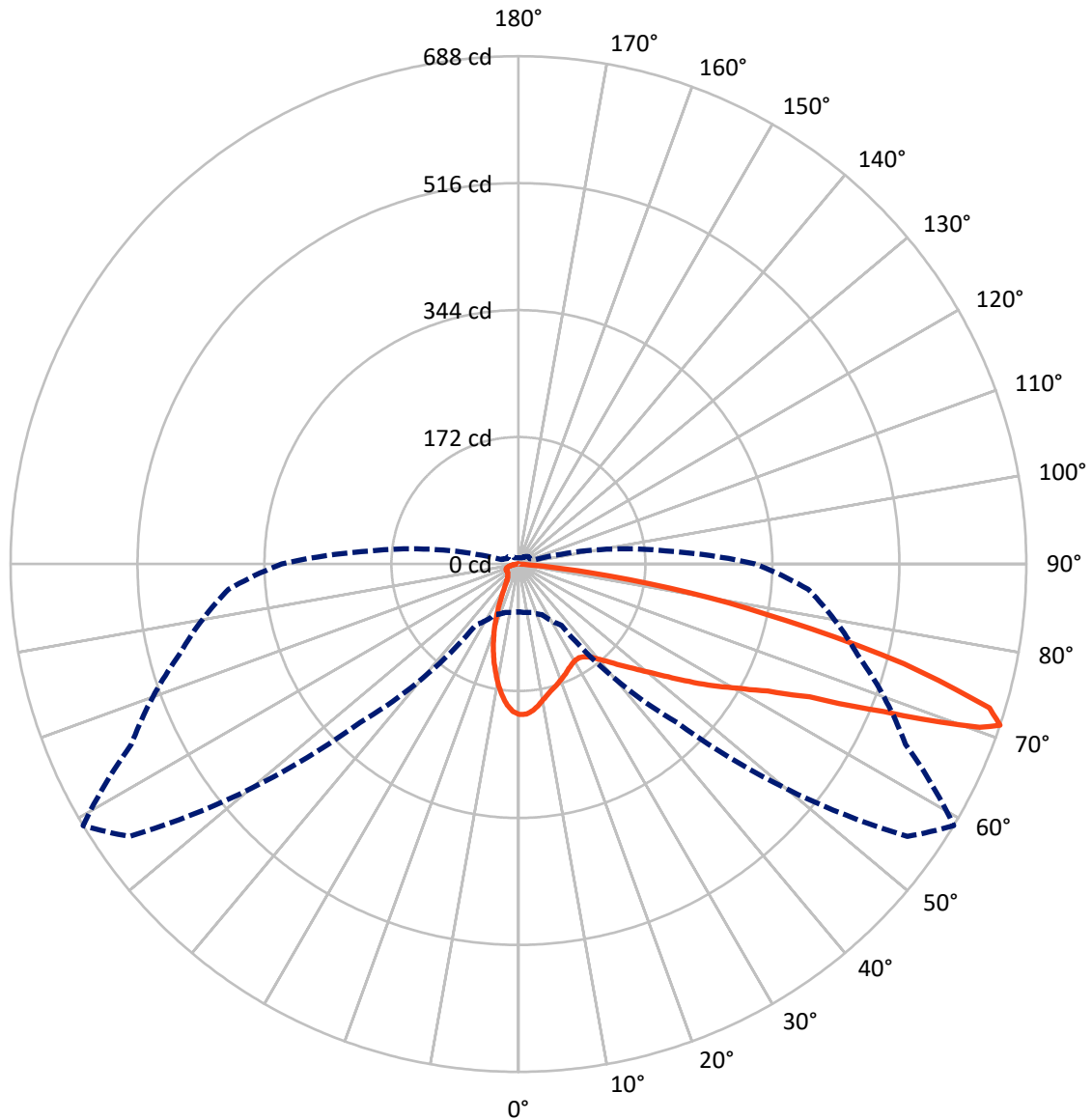


Based on 10 foot mounting height. Maximum calculated value = 2 fc  
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P400750

CATALOG NUMBER: ENV-SA1-735-U-SL3-XXB

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P400750

CATALOG NUMBER: ENV-SA1-735-U-SL3-XXB

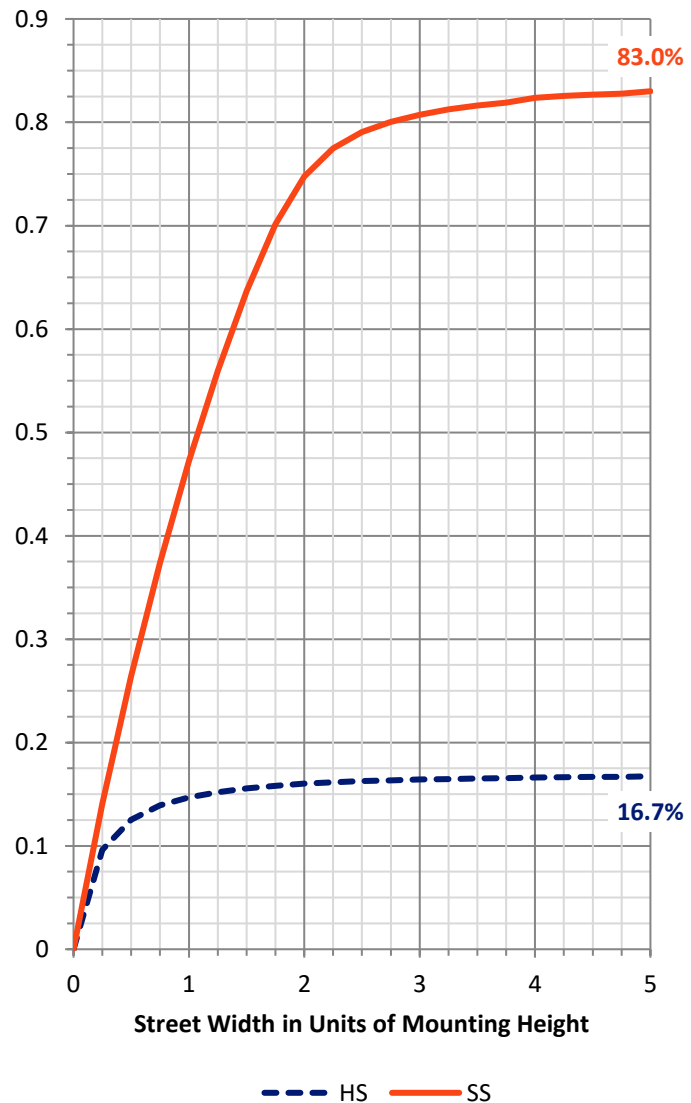
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	120.7	0.0	120.7
	% Fixture	17.0	0.0	17.0
<b>Street Side</b>	Lumens	590.3	0.0	590.3
	% Fixture	83.0	0.0	83.0
<b>Total</b>	Lumens	711.0	0.0	711.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.6	2.5
10°-20°	39.6	5.6
20°-30°	50.3	7.1
30°-40°	64.3	9.0
40°-50°	89.3	12.6
50°-60°	132.2	18.6
60°-70°	178.7	25.1
70°-80°	126.7	17.8
80°-90°	12.3	1.7
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°	711.0	100.0
0°-180°	711.0	100.0



REPORT NUMBER: P400750

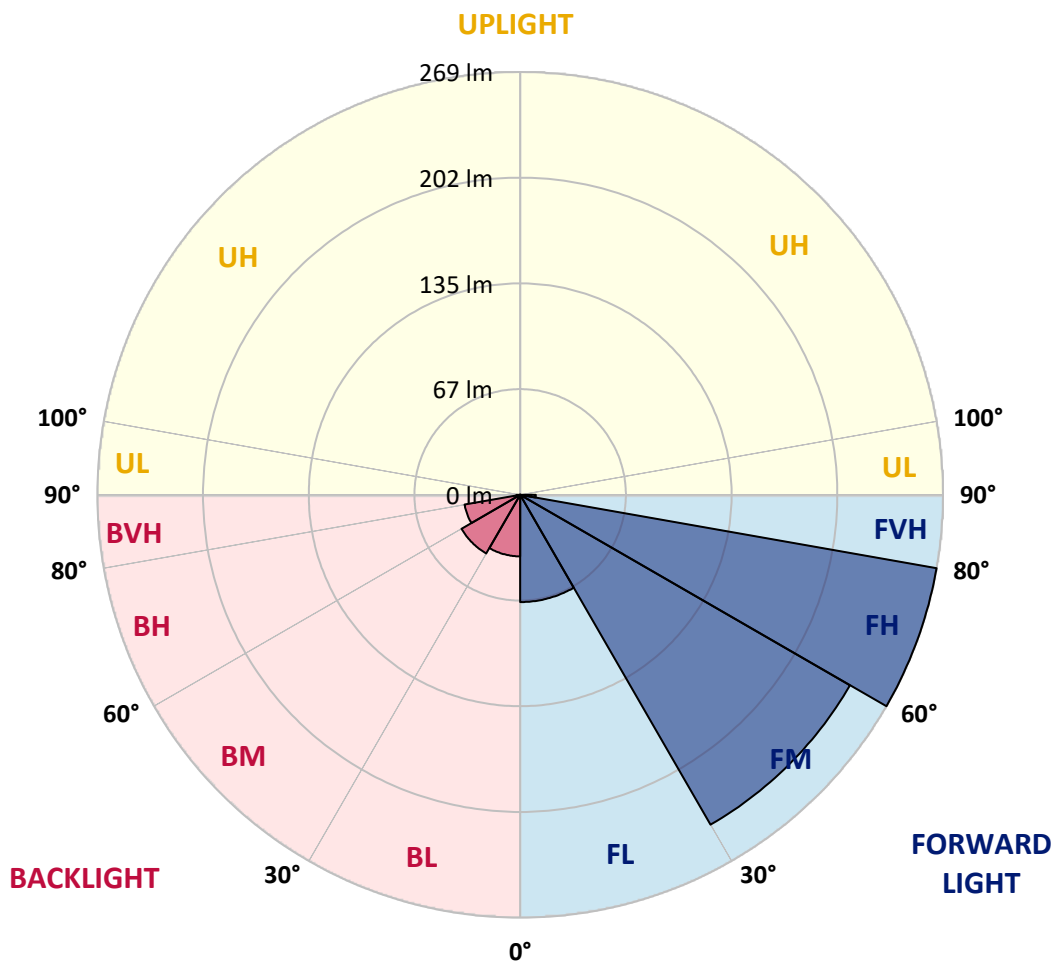
CATALOG NUMBER: ENV-SA1-735-U-SL3-XXB

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	68.3	9.6			
FM	(30°-60°)	242.6	34.1			
FH	(60°-80°)	269.4	37.9			G0/660
FVH	(80°-90°)	10.0	1.4			G0/10
BL	(0°-30°)	39.2	5.5	B0/110		
BM	(30°-60°)	43.2	6.1	B0/220		
BH	(60°-80°)	36.0	5.1	B0/110		G0/110
BVH	(80°-90°)	2.3	0.3			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





REPORT NUMBER: P400750

CATALOG NUMBER: ENV-SA1-735-U-SL3-XXB

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
2.5°	202.2	203.0	203.3	203.8	203.8	204.0	203.8	203.7	204.1	203.7	202.5
5°	193.3	193.6	194.5	195.5	196.6	198.7	199.3	199.8	200.7	200.9	199.8
7.5°	181.1	182.2	183.5	184.8	187.0	190.0	192.5	193.6	195.3	196.4	194.7
10°	170.8	171.4	172.0	174.4	177.8	181.9	184.6	186.6	189.4	190.7	189.1
12.5°	160.5	161.0	162.3	165.5	169.0	173.9	178.7	180.3	183.6	186.3	185.0
15°	152.6	152.6	153.5	157.0	160.7	167.3	173.0	175.3	179.5	183.3	181.7
17.5°	145.6	145.9	146.5	148.8	153.9	160.8	168.0	171.0	176.2	181.1	179.1
20°	141.7	141.4	141.9	143.0	147.1	154.4	163.1	166.6	173.0	179.8	176.5
22.5°	140.3	140.1	139.8	139.7	142.4	148.6	157.8	162.2	170.1	179.1	174.1
25°	141.3	141.3	140.4	138.7	139.9	144.1	153.1	157.7	166.9	178.5	171.9
27.5°	144.1	144.1	142.8	140.5	140.0	141.9	149.0	153.9	164.2	178.8	170.2
30°	147.9	147.8	146.5	144.5	143.0	142.4	147.0	151.5	162.4	180.2	169.4
32.5°	152.3	152.1	151.4	150.1	148.2	145.6	147.2	151.2	162.0	182.6	169.5
35°	157.4	157.1	157.4	156.7	154.9	152.1	151.0	154.2	164.0	187.0	171.2
37.5°	162.0	161.7	163.3	163.7	163.3	159.5	158.1	160.2	168.9	194.0	174.8
40°	165.8	166.0	168.8	171.7	172.4	169.1	168.1	169.9	176.7	202.5	181.3
42.5°	170.0	170.6	174.7	180.1	182.1	180.0	180.5	181.7	186.6	214.2	190.7
45°	174.1	175.4	181.1	188.0	193.3	193.3	195.0	196.3	199.3	228.8	204.4
47.5°	181.3	182.2	188.4	196.8	204.8	207.4	212.2	211.8	214.2	244.9	220.5
50°	190.7	192.2	198.5	207.2	217.4	224.7	230.3	231.1	232.0	261.4	239.5
52.5°	203.7	205.5	210.7	218.7	230.8	242.7	254.5	254.0	252.7	279.3	261.4
55°	216.8	218.7	223.6	230.0	244.3	262.6	281.8	281.0	275.4	297.6	281.6
57.5°	230.0	231.7	236.7	242.4	259.2	286.1	310.6	311.1	299.5	318.0	301.5
60°	235.6	238.1	250.6	261.5	282.5	312.2	340.1	341.4	324.5	338.6	323.6
62.5°	210.5	213.5	234.1	263.5	314.4	362.4	378.4	379.2	354.7	361.4	347.7
65°	155.8	155.7	177.0	221.1	308.0	429.9	446.7	433.7	392.2	391.6	379.5
67.5°	89.2	91.9	98.7	131.9	234.7	442.4	568.3	534.4	458.7	438.6	422.0
70°	71.9	71.3	73.4	82.2	128.0	363.8	647.5	662.9	553.0	476.9	412.4
71°	64.8	65.7	67.8	75.8	101.0	303.5	643.6	688.2	578.8	475.9	394.2
72.5°	55.7	55.9	60.7	70.2	82.9	214.1	595.1	667.4	605.8	462.4	367.4
75°	37.9	38.4	45.8	56.5	75.7	101.7	425.8	539.8	551.4	432.1	303.4
77.5°	21.7	22.1	27.5	41.3	64.5	71.7	261.4	373.0	396.4	316.0	162.7
80°	11.2	11.7	15.2	26.1	49.2	58.0	149.9	234.6	225.5	109.2	37.7
82.5°	3.0	3.4	4.4	9.4	23.8	37.8	66.4	97.0	69.3	22.7	13.7
85°	0.0	0.0	0.0	0.1	0.2	5.3	14.0	17.4	9.7	4.4	3.7
87.5°	0.0	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.3	0.4
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: P400750

CATALOG NUMBER: ENV-SA1-735-U-SL3-XXB

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
2.5°	202.3	202.3	201.7	200.8	199.8	197.4	197.8	195.9	196.2	195.9	195.9
5°	198.8	198.2	196.7	193.8	190.6	186.4	185.7	182.3	180.4	179.8	180.5
7.5°	194.0	192.2	188.3	183.3	177.2	171.7	166.7	162.2	158.8	157.3	156.7
10°	187.6	185.4	179.1	170.2	161.8	153.3	145.4	140.2	133.4	131.4	130.7
12.5°	182.3	178.6	169.1	156.7	143.7	132.4	121.7	110.9	104.4	99.7	99.0
15°	177.8	172.6	158.9	142.9	126.7	111.1	96.5	82.0	72.8	68.9	66.1
17.5°	173.8	167.0	148.7	128.0	108.0	87.3	69.5	55.6	49.9	46.9	47.0
20°	169.7	161.0	138.0	113.0	89.4	66.4	49.1	42.7	39.8	39.1	38.8
22.5°	165.8	154.2	126.8	98.3	70.5	48.8	39.6	36.4	35.6	35.6	35.6
25°	161.3	147.3	115.5	83.2	53.4	38.5	34.0	32.9	33.1	33.5	33.6
27.5°	157.7	141.3	104.3	65.8	41.4	32.8	30.4	30.2	31.0	31.9	31.9
30°	154.5	135.9	92.1	51.4	33.0	28.7	27.9	28.2	29.1	29.9	30.2
32.5°	152.4	130.9	81.2	40.0	28.1	26.0	25.8	26.2	27.0	27.4	27.7
35°	151.4	127.3	69.4	32.2	25.0	23.9	23.8	24.1	24.5	24.6	24.5
37.5°	152.5	124.9	57.4	27.3	23.1	22.5	22.4	22.4	22.4	22.5	22.4
40°	155.5	123.9	46.6	24.1	21.8	21.3	21.0	20.7	20.5	20.5	20.4
42.5°	161.7	125.4	37.4	22.3	20.9	20.3	19.7	19.3	19.0	18.9	18.9
45°	171.8	129.4	31.1	21.0	20.1	19.2	18.4	18.0	17.7	17.8	17.7
47.5°	185.7	136.1	27.5	20.2	19.3	18.0	17.3	16.9	16.8	17.1	17.2
50°	201.5	145.6	25.3	19.6	18.6	17.1	16.3	16.0	16.1	16.7	16.8
52.5°	220.1	157.8	24.4	19.2	18.1	16.3	15.6	15.2	15.5	16.2	16.3
55°	240.0	171.8	25.8	19.4	17.6	15.8	14.9	14.5	14.8	15.5	15.6
57.5°	260.3	189.1	30.3	19.5	17.0	15.4	14.3	13.7	13.9	14.4	14.5
60°	280.8	206.4	38.1	19.6	16.8	14.9	13.8	12.9	13.0	13.3	13.4
62.5°	304.9	228.2	48.4	20.0	17.0	14.6	12.9	11.8	11.8	12.1	12.1
65°	341.5	260.7	55.2	19.8	17.5	14.3	12.0	10.9	10.8	10.9	10.9
67.5°	367.8	265.1	38.5	18.6	17.8	14.4	11.4	10.1	9.9	9.8	9.8
70°	340.0	223.0	25.4	17.6	17.3	14.6	11.0	9.6	9.2	8.9	8.8
71°	320.7	201.0	23.6	17.2	16.9	14.4	10.8	9.3	8.9	8.7	8.6
72.5°	292.2	179.4	21.7	16.6	16.0	14.0	10.5	9.0	8.4	8.1	8.0
75°	230.9	137.5	19.1	15.2	13.8	11.5	9.7	8.3	7.8	7.4	7.3
77.5°	104.4	54.7	14.6	13.2	11.2	9.2	8.4	7.7	7.1	6.8	6.7
80°	29.2	20.8	10.7	10.4	8.4	7.1	6.8	6.6	6.4	6.0	6.0
82.5°	13.5	12.2	7.6	7.3	5.8	5.0	5.4	5.5	5.5	5.0	4.9
85°	3.7	4.0	3.5	3.9	3.7	3.4	3.9	4.2	4.4	4.0	3.7
87.5°	0.3	0.7	0.9	1.5	1.9	2.0	2.5	3.0	3.1	2.5	2.6
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)