

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: P400760

Luminaire Tested: **ENV-SA1-735-U-T3-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1-735-U-T3-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 738 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Semi-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

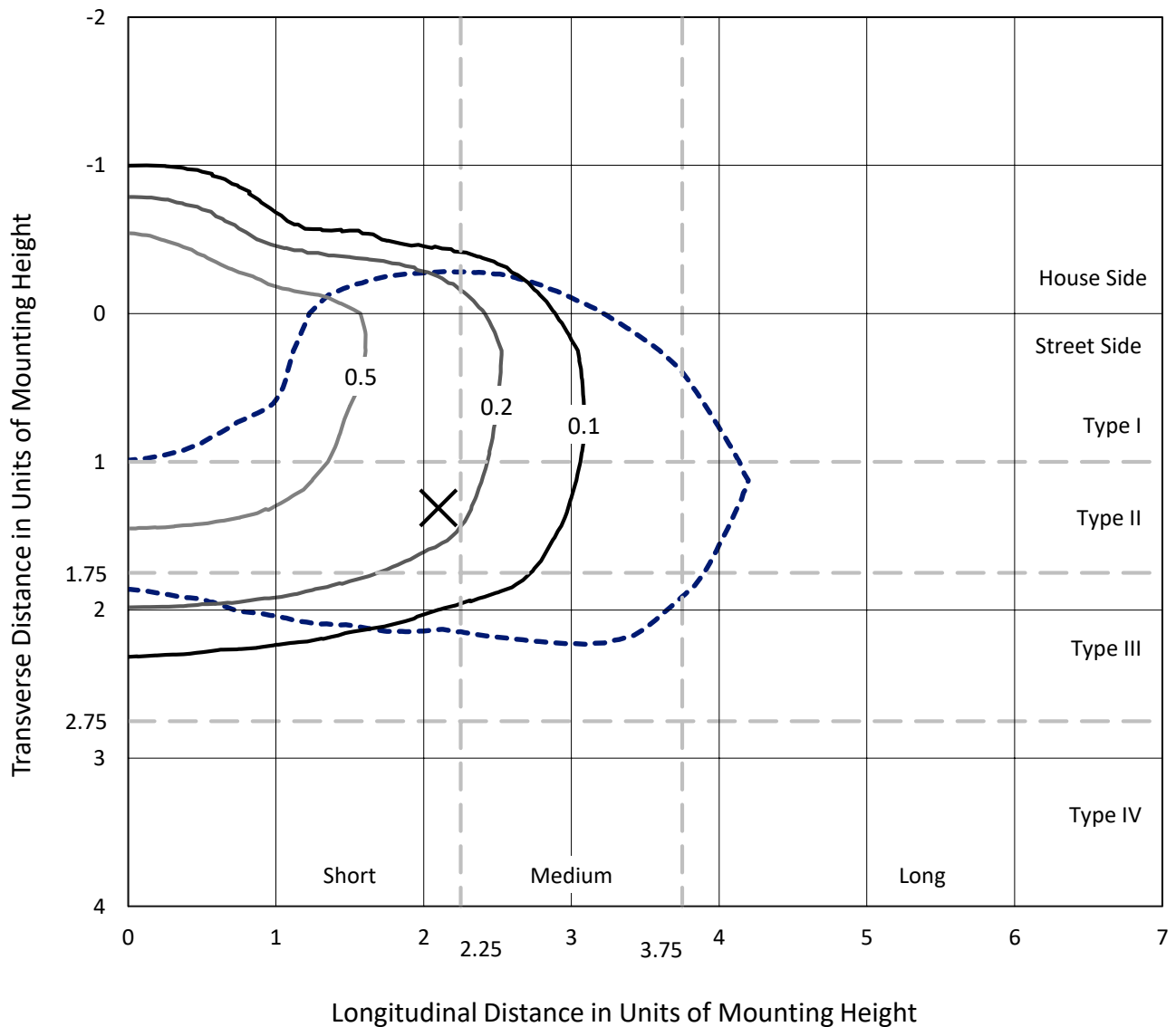


REPORT NUMBER: P400760

CATALOG NUMBER: ENV-SA1-735-U-T3-XXB

Iso-Footcandle Lines of Horizontal Illumination

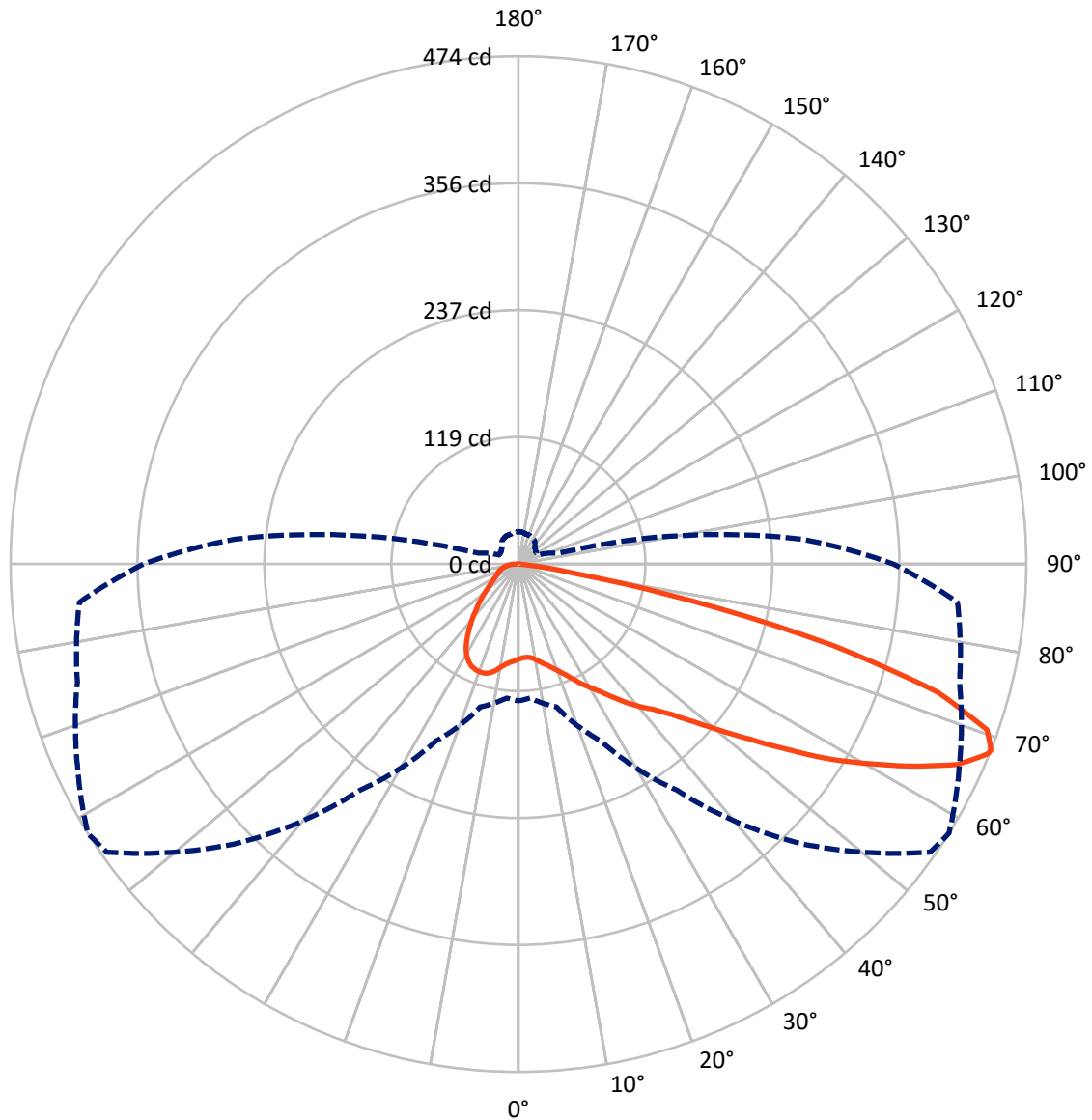
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - Semi-Cutoff

REPORT NUMBER: P400760
CATALOG NUMBER: ENV-SA1-735-U-T3-XXB

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P400760

CATALOG NUMBER: ENV-SA1-735-U-T3-XXB

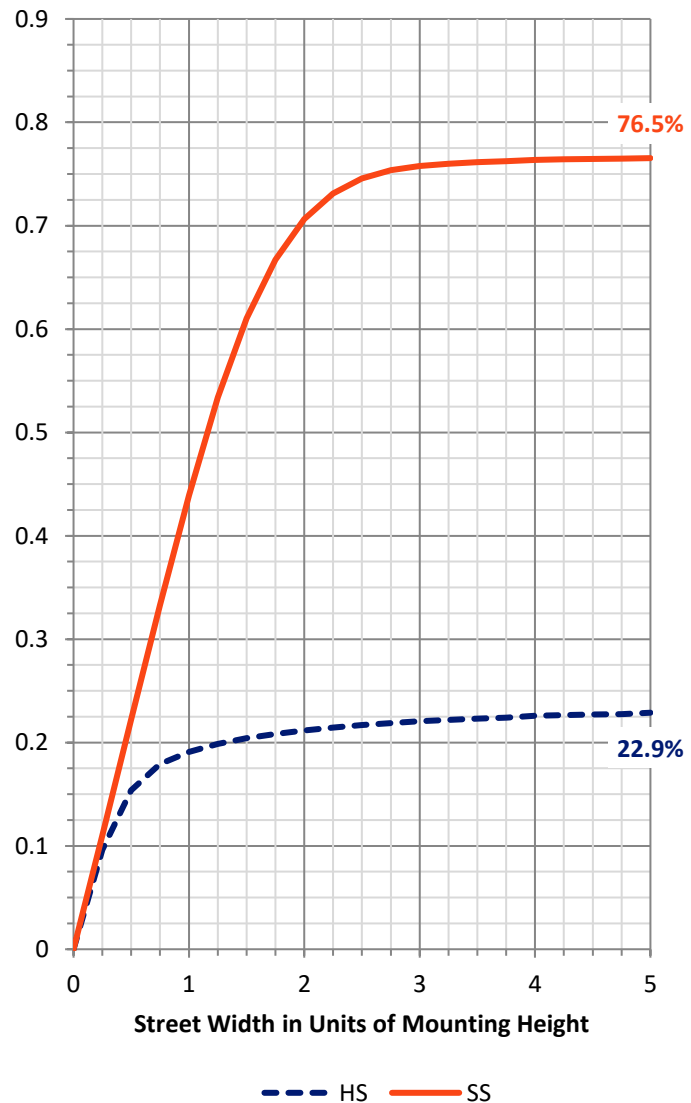
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	172.8	0.0	172.8
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	565.2	0.0	565.2
	% Fixture	76.6	0.0	76.6
Total	Lumens	738.0	0.0	738.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.7	1.2
10°-20°	28.6	3.9
20°-30°	51.3	7.0
30°-40°	75.4	10.2
40°-50°	110.6	15.0
50°-60°	165.4	22.4
60°-70°	193.3	26.2
70°-80°	95.3	12.9
80°-90°	9.3	1.3
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°	738.0	100.0
0°-180°	738.0	100.0



REPORT NUMBER: P400760

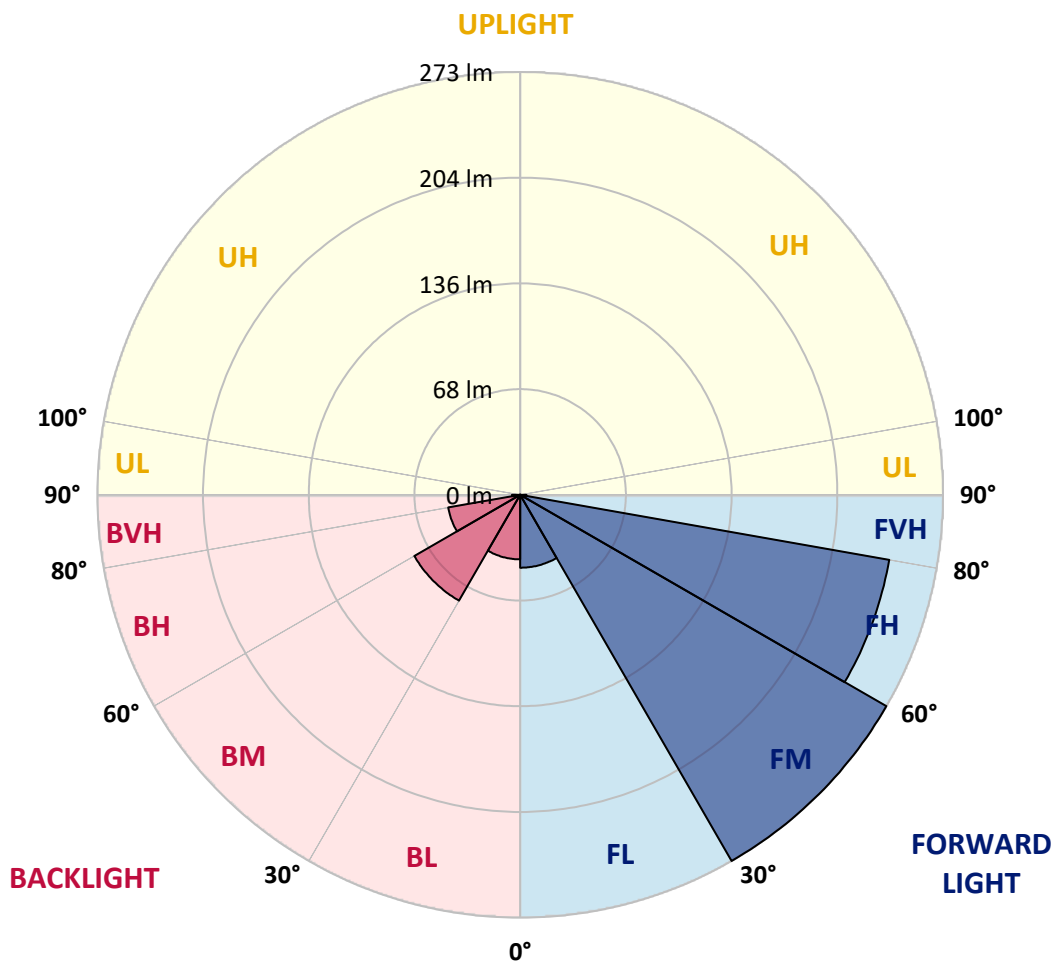
CATALOG NUMBER: ENV-SA1-735-U-T3-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	47.0	6.4			
FM	(30°-60°)	272.6	36.9			
FH	(60°-80°)	241.6	32.7			G0/660
FVH	(80°-90°)	4.0	0.5			G0/10
BL	(0°-30°)	41.6	5.6	B0/110		
BM	(30°-60°)	78.8	10.7	B0/220		
BH	(60°-80°)	47.1	6.4	B0/110		G0/110
BVH	(80°-90°)	5.3	0.7			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 Short





REPORT NUMBER: P400760

CATALOG NUMBER: ENV-SA1-735-U-T3-XXB

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
2.5°	86.5	86.5	86.8	86.9	87.1	87.3	87.5	87.6	87.9	88.3	88.5
5°	85.7	85.8	86.0	86.2	86.5	86.9	87.2	87.4	87.9	88.7	89.2
7.5°	87.4	87.7	87.8	87.9	88.0	88.3	88.3	88.4	88.9	89.8	90.5
10°	90.1	90.3	90.6	90.9	91.2	91.4	90.8	90.9	91.1	91.9	93.0
12.5°	93.5	93.5	93.6	94.0	94.3	94.9	94.3	94.3	94.3	95.0	96.2
15°	97.3	97.1	97.1	97.5	97.6	98.0	97.7	97.7	98.1	98.8	100.1
17.5°	101.6	101.9	101.6	101.4	101.1	101.3	101.5	101.7	102.5	103.7	104.4
20°	107.9	108.4	108.2	107.4	106.0	105.4	106.1	106.6	108.2	109.5	109.6
22.5°	117.9	117.6	117.3	115.8	113.1	111.5	111.6	112.2	114.8	116.9	115.8
25°	127.2	127.5	127.5	125.4	121.9	118.5	118.8	119.1	121.7	123.6	120.8
27.5°	138.4	138.2	138.1	135.3	131.1	127.8	126.0	126.9	128.7	129.4	124.1
30°	150.0	150.9	150.0	146.1	142.1	137.9	134.4	134.2	135.1	135.0	128.0
32.5°	164.1	163.3	163.0	158.5	153.4	147.9	143.4	142.7	142.2	141.5	132.6
35°	174.9	175.8	175.8	171.9	165.9	160.5	153.5	152.9	151.7	149.3	138.7
37.5°	187.7	187.4	188.2	183.6	177.7	172.4	166.0	164.3	161.5	158.0	145.9
40°	200.1	200.6	202.3	196.8	191.4	187.2	178.2	175.0	170.8	167.6	156.4
42.5°	217.1	217.8	218.5	213.9	207.4	203.7	189.7	185.7	183.3	182.7	170.3
45°	237.7	239.0	239.5	235.4	231.7	222.8	204.2	200.5	198.0	200.6	189.3
47.5°	257.5	256.9	259.3	259.2	259.6	249.0	225.2	219.6	217.1	223.9	211.0
50°	268.7	269.6	274.7	280.0	287.3	279.7	249.4	243.8	240.9	249.4	236.6
52.5°	274.4	275.7	282.6	297.3	312.9	309.3	278.5	272.4	269.9	278.1	264.0
55°	274.9	275.7	284.9	307.8	332.3	333.5	311.8	306.0	302.6	307.9	293.9
57.5°	266.4	264.2	280.2	309.4	344.8	358.7	348.4	344.2	334.6	340.4	331.0
60°	251.1	253.3	269.0	303.0	350.1	378.4	385.1	378.7	367.6	370.0	371.0
62.5°	228.1	230.8	247.1	288.1	345.8	395.1	419.0	415.8	400.9	399.6	401.5
65°	195.2	193.5	211.7	255.7	325.8	400.7	452.3	451.0	433.1	418.6	419.3
67.5°	140.8	139.2	151.9	197.3	271.7	379.9	470.0	473.0	452.6	426.9	415.8
68°	127.8	125.6	138.3	182.4	257.8	368.0	469.1	474.2	454.0	426.4	411.5
70°	73.6	70.1	82.3	119.0	189.8	309.8	450.1	464.3	450.6	416.4	383.1
72.5°	23.1	23.1	31.8	48.1	93.2	196.0	385.1	409.3	412.2	378.5	318.4
75°	14.4	14.4	16.6	22.8	37.1	83.2	265.7	302.6	327.5	318.6	232.2
77.5°	9.8	9.6	11.0	14.1	20.7	26.7	133.3	163.9	200.3	217.5	135.8
80°	5.4	5.5	6.8	8.5	11.7	12.4	39.2	55.3	88.2	103.4	51.5
82.5°	3.1	3.0	3.3	3.7	5.2	5.4	11.2	13.8	23.1	21.4	13.8
85°	0.0	0.1	0.1	0.1	0.2	0.5	1.4	2.2	3.5	4.8	3.4
87.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.2	0.3
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: P400760

CATALOG NUMBER: ENV-SA1-735-U-T3-XXB

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
2.5°	88.7	89.0	89.6	90.0	90.2	90.0	90.7	90.6	90.8	90.8	91.0
5°	89.7	90.1	91.0	91.5	92.0	92.2	93.1	93.3	93.7	93.9	93.8
7.5°	91.0	91.5	92.6	93.6	94.3	94.8	96.1	96.8	97.4	97.6	97.8
10°	93.5	94.2	95.4	96.6	97.6	98.3	99.4	100.3	100.9	101.1	101.3
12.5°	96.8	97.6	99.1	100.7	101.8	102.2	102.1	101.9	101.9	101.8	101.9
15°	100.6	101.4	103.4	104.8	104.9	103.6	101.7	100.8	100.6	100.6	100.7
17.5°	105.0	106.0	107.3	108.1	106.1	102.8	100.7	99.8	99.5	99.4	99.2
20°	110.1	110.7	111.1	110.1	105.7	101.9	99.4	98.1	97.1	97.0	96.6
22.5°	115.4	115.2	114.7	111.0	104.6	99.8	96.4	93.9	92.5	92.4	92.0
25°	119.3	118.5	117.0	111.2	102.5	96.2	91.4	87.5	85.7	84.9	85.1
27.5°	121.9	120.2	117.5	110.2	98.9	90.9	84.1	78.9	76.4	75.9	76.3
30°	125.0	122.2	117.9	107.6	93.8	83.4	74.5	69.4	67.9	67.2	67.4
32.5°	128.7	125.1	119.2	103.7	87.3	74.6	65.0	61.4	59.8	58.4	58.8
35°	133.6	129.0	121.4	98.1	79.0	65.3	58.2	54.9	51.9	50.5	50.6
37.5°	139.2	134.1	123.2	91.6	70.1	58.3	52.3	48.4	44.7	41.9	41.4
40°	148.3	144.1	124.8	84.4	61.5	52.6	46.6	42.1	38.6	35.9	35.6
42.5°	163.4	156.1	124.9	75.7	54.2	47.6	41.8	37.0	33.1	30.7	30.6
45°	181.3	169.9	122.7	66.5	47.8	42.7	37.6	32.2	29.9	28.3	28.1
47.5°	202.4	185.8	118.0	57.8	42.4	37.8	33.3	30.0	28.3	27.2	27.2
50°	226.5	204.5	113.3	50.4	37.1	33.9	30.8	29.1	27.8	26.8	26.7
52.5°	253.7	226.5	111.7	42.9	32.8	30.3	30.0	28.3	27.3	26.6	26.4
55°	286.2	251.2	113.1	37.0	29.4	28.9	29.5	28.1	27.4	26.3	26.0
57.5°	323.7	275.4	111.6	32.0	27.0	27.5	28.9	28.1	27.5	26.1	25.7
60°	359.0	296.9	101.1	27.9	24.7	25.9	28.0	27.2	26.3	26.0	25.8
62.5°	378.0	303.9	80.6	24.7	23.0	24.2	26.7	25.7	25.0	25.8	25.9
65°	378.2	296.0	59.3	22.4	21.5	22.8	25.4	25.0	25.5	27.1	27.4
67.5°	357.2	271.8	41.8	20.2	20.1	21.6	26.0	28.0	28.3	30.0	30.0
68°	350.0	265.9	38.9	19.9	19.8	21.6	26.5	28.5	28.8	30.3	30.2
70°	310.4	224.8	28.1	18.7	19.3	23.2	29.3	30.0	28.8	30.5	30.4
72.5°	242.6	166.2	21.0	17.3	18.3	22.9	29.5	28.8	26.9	27.3	26.8
75°	164.0	105.9	17.3	15.9	16.3	19.4	26.8	27.1	24.9	24.5	23.9
77.5°	85.8	49.7	14.0	14.1	14.5	16.8	23.9	24.6	22.7	21.4	21.2
80°	31.6	19.7	11.4	12.5	12.7	14.7	20.5	21.6	19.8	18.9	18.7
82.5°	11.5	9.8	9.5	10.9	10.7	12.6	17.9	18.8	16.8	15.9	15.4
85°	3.2	3.6	6.0	8.6	8.3	9.8	14.4	15.1	13.5	11.1	10.8
87.5°	0.2	0.7	2.4	5.0	5.3	6.1	10.4	11.4	10.0	8.2	8.1
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)