

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: P400742

Luminaire Tested: **ENV-SA1-730-U-T3-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400742
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-SA1-730-U-T3-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K 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: 716 lumens
Efficiency: N/A
Efficacy: 55.1 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

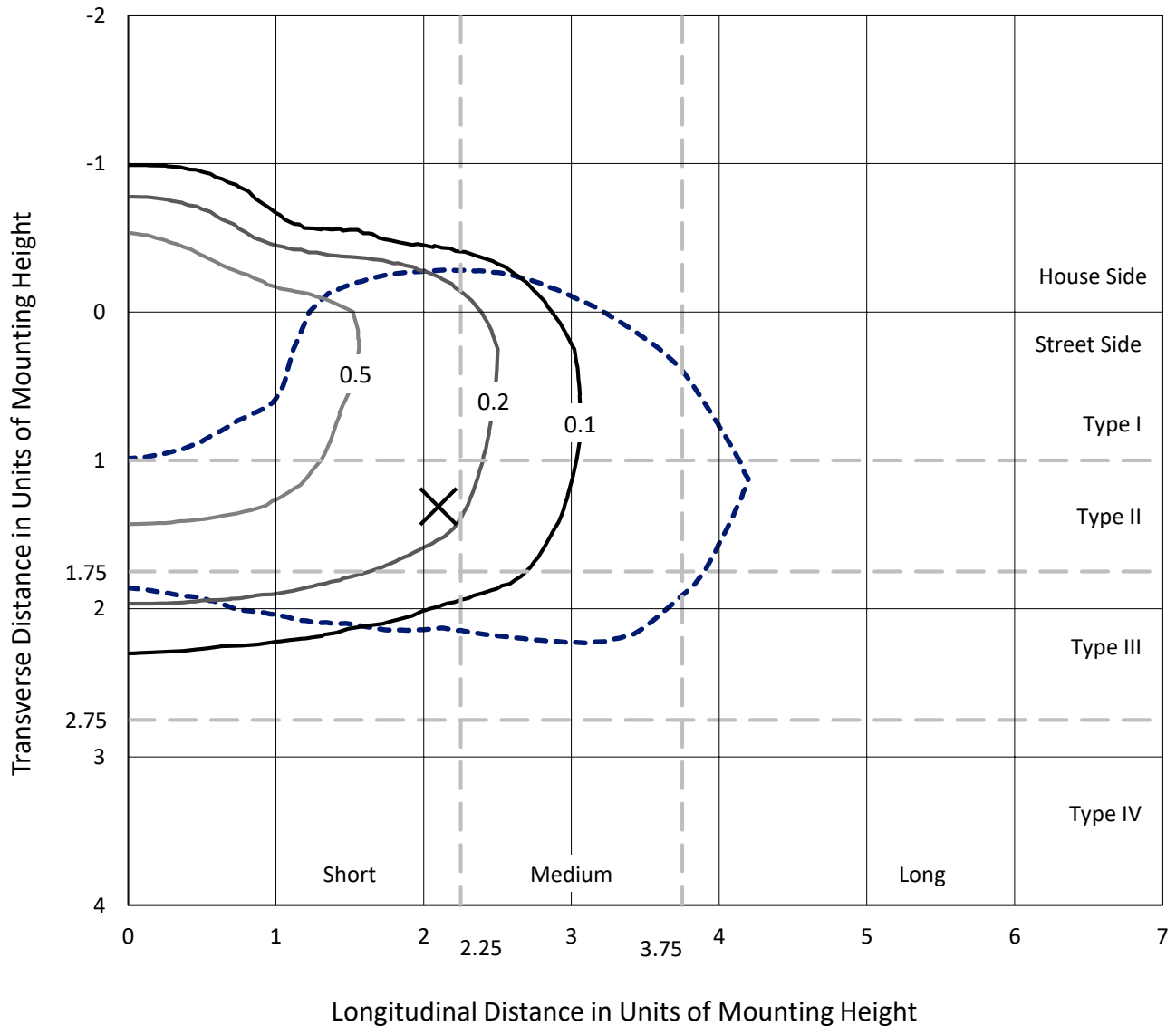


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

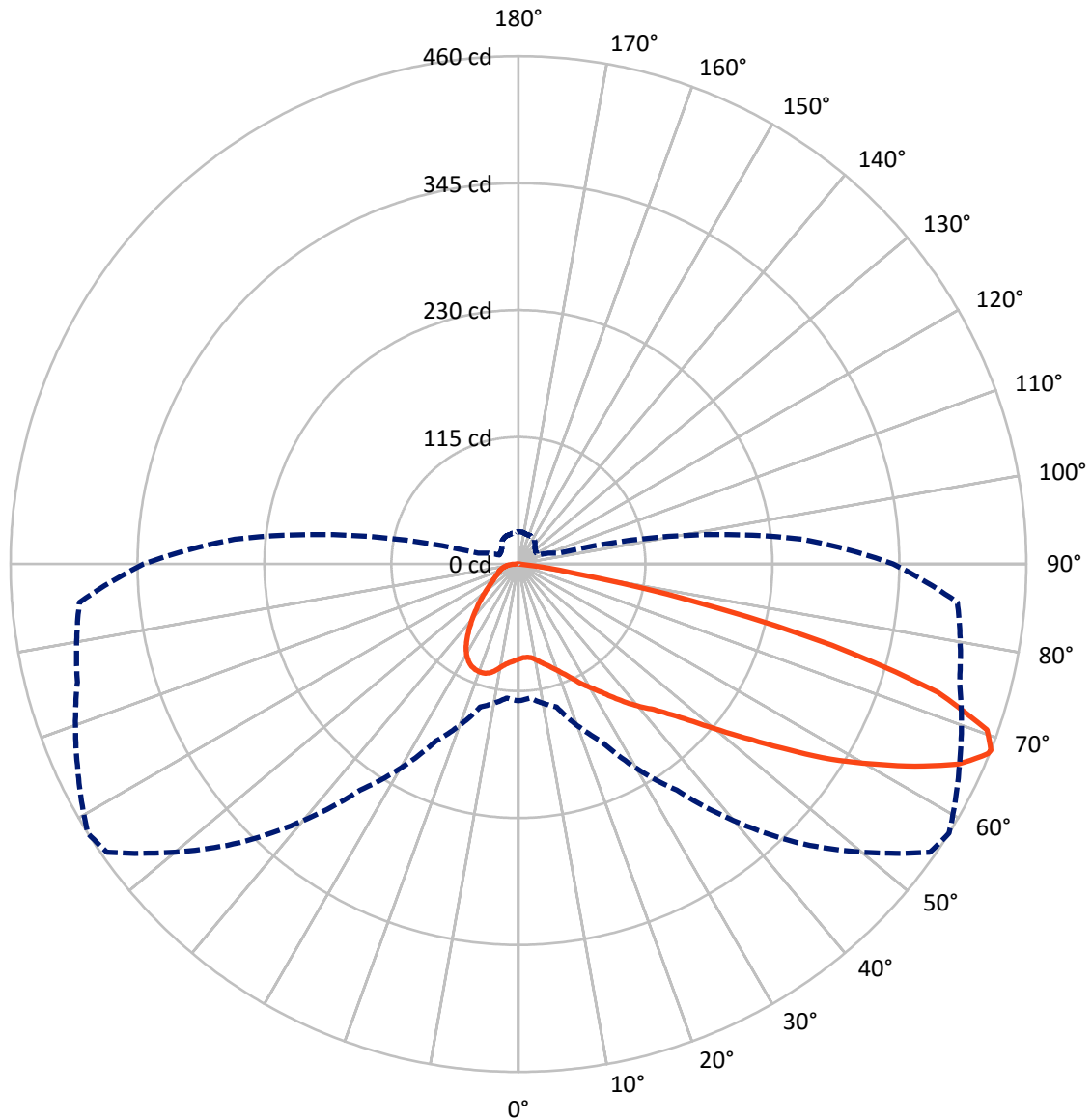


Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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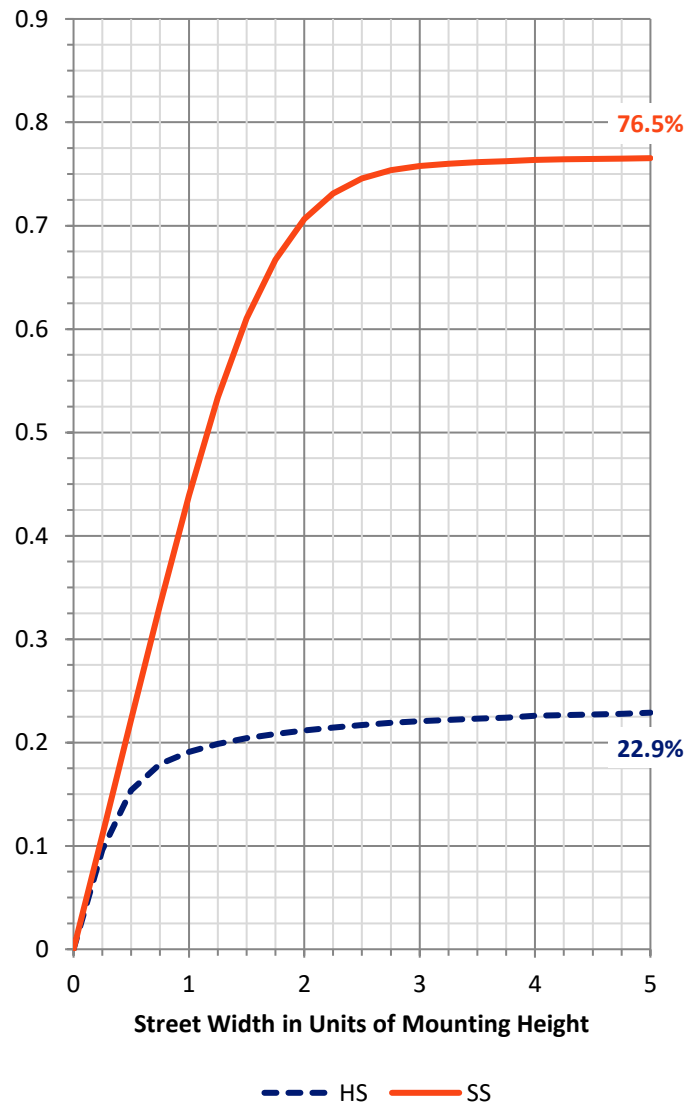
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	167.7	0.0	167.7
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	548.4	0.0	548.4
	% Fixture	76.6	0.0	76.6
Total	Lumens	716.0	0.0	716.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.5	1.2
10°-20°	27.7	3.9
20°-30°	49.8	7.0
30°-40°	73.2	10.2
40°-50°	107.3	15.0
50°-60°	160.4	22.4
60°-70°	187.6	26.2
70°-80°	92.5	12.9
80°-90°	9.0	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°	716.0	100.0
0°-180°	716.0	100.0



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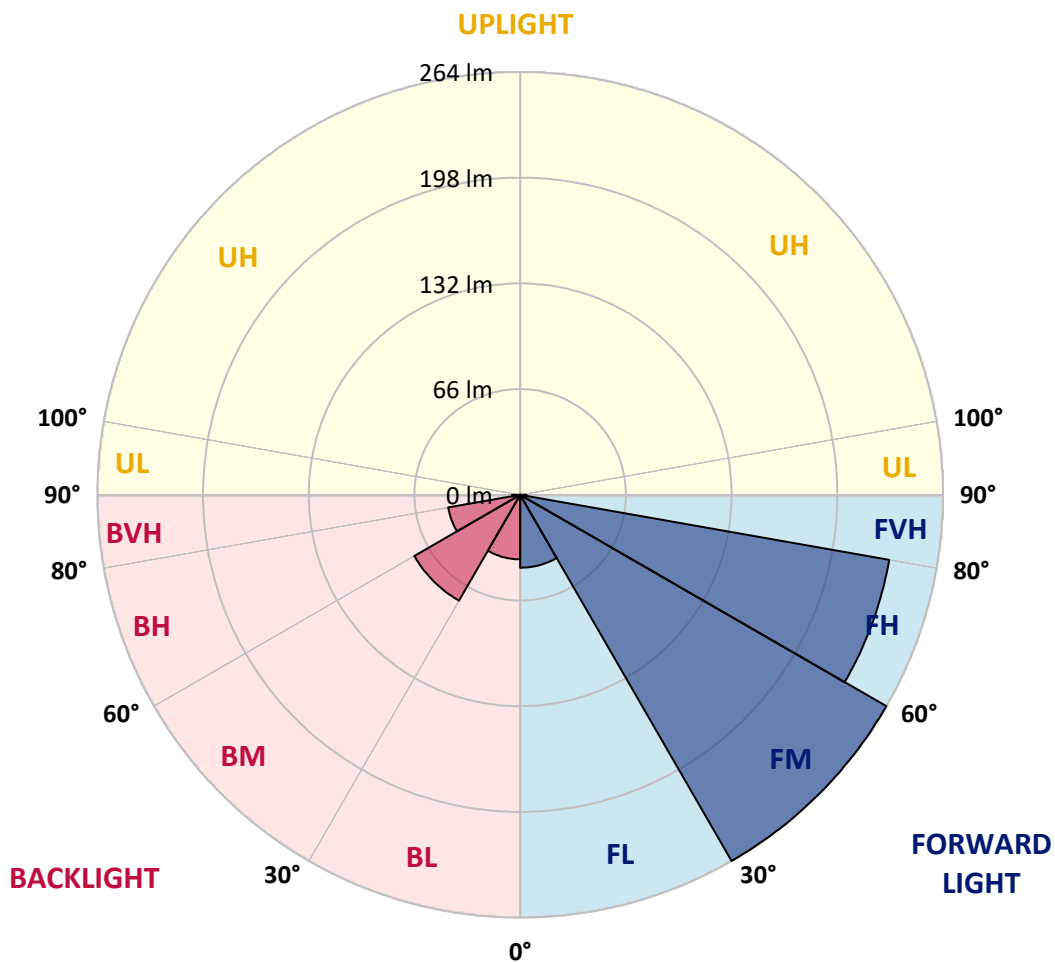
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	45.6	6.4			
FM (30°-60°)	264.5	36.9			
FH (60°-80°)	234.4	32.7			G0/660
FVH (80°-90°)	3.9	0.5			G0/10
BL (0°-30°)	40.4	5.6	B0/110		
BM (30°-60°)	76.5	10.7	B0/220		
BH (60°-80°)	45.7	6.4	B0/110		G0/110
BVH (80°-90°)	5.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
2.5°	83.9	83.9	84.2	84.3	84.5	84.7	84.9	85.0	85.3	85.7	85.9
5°	83.2	83.3	83.5	83.6	83.9	84.3	84.6	84.8	85.3	86.1	86.6
7.5°	84.8	85.1	85.2	85.3	85.4	85.7	85.7	85.8	86.3	87.1	87.8
10°	87.4	87.6	87.9	88.2	88.5	88.7	88.1	88.2	88.4	89.2	90.2
12.5°	90.7	90.7	90.8	91.2	91.5	92.1	91.5	91.5	91.5	92.2	93.4
15°	94.4	94.2	94.2	94.6	94.7	95.1	94.8	94.8	95.2	95.9	97.1
17.5°	98.6	98.9	98.6	98.4	98.1	98.3	98.5	98.7	99.5	100.6	101.3
20°	104.7	105.2	105.0	104.2	102.9	102.3	103.0	103.4	105.0	106.3	106.4
22.5°	114.4	114.1	113.8	112.4	109.8	108.2	108.3	108.9	111.4	113.4	112.4
25°	123.4	123.7	123.7	121.7	118.3	115.0	115.3	115.6	118.1	119.9	117.2
27.5°	134.3	134.1	134.0	131.3	127.2	124.0	122.3	123.1	124.9	125.6	120.4
30°	145.6	146.4	145.6	141.8	137.9	133.8	130.4	130.2	131.1	131.0	124.2
32.5°	159.2	158.5	158.2	153.8	148.9	143.5	139.2	138.5	138.0	137.3	128.7
35°	169.7	170.6	170.6	166.8	161.0	155.7	149.0	148.4	147.2	144.9	134.6
37.5°	182.1	181.9	182.6	178.2	172.4	167.3	161.1	159.4	156.7	153.3	141.6
40°	194.2	194.7	196.3	191.0	185.7	181.7	172.9	169.8	165.7	162.6	151.8
42.5°	210.7	211.4	212.0	207.6	201.3	197.7	184.1	180.2	177.9	177.3	165.3
45°	230.7	231.9	232.4	228.4	224.8	216.2	198.2	194.6	192.1	194.7	183.7
47.5°	249.8	249.2	251.5	251.4	251.8	241.5	218.5	213.1	210.7	217.3	204.8
50°	260.6	261.5	266.5	271.6	278.7	271.3	241.9	236.6	233.8	241.9	229.6
52.5°	266.2	267.4	274.1	288.4	303.5	300.0	270.2	264.2	261.8	269.8	256.1
55°	266.7	267.4	276.4	298.6	322.4	323.5	302.5	296.8	293.5	298.7	285.1
57.5°	258.4	256.3	271.8	300.1	334.5	348.0	338.0	333.9	324.6	330.2	321.1
60°	243.6	245.7	260.9	293.9	339.6	367.1	373.6	367.4	356.6	358.9	359.9
62.5°	221.3	224.0	239.7	279.5	335.5	383.3	406.5	403.4	388.9	387.7	389.5
65°	189.4	187.8	205.4	248.0	316.1	388.7	438.8	437.5	420.2	406.1	406.8
67.5°	136.6	135.1	147.4	191.5	263.6	368.6	456.0	458.9	439.1	414.2	403.4
68°	124.0	121.9	134.2	177.0	250.1	357.0	455.1	460.1	440.5	413.7	399.2
70°	71.4	68.0	79.9	115.5	184.2	300.5	436.7	450.5	437.2	404.0	371.7
72.5°	22.4	22.4	30.9	46.7	90.4	190.2	373.6	397.1	399.9	367.2	308.9
75°	14.0	14.0	16.1	22.1	36.0	80.7	257.7	293.5	317.7	309.1	225.3
77.5°	9.5	9.3	10.7	13.7	20.1	25.9	129.4	159.0	194.4	211.1	131.8
80°	5.2	5.3	6.6	8.2	11.4	12.0	38.0	53.7	85.6	100.3	50.0
82.5°	3.0	2.9	3.2	3.6	5.0	5.2	10.9	13.4	22.4	20.8	13.4
85°	0.0	0.1	0.1	0.1	0.2	0.5	1.4	2.1	3.4	4.7	3.3
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
2.5°	86.1	86.4	86.9	87.3	87.5	87.3	88.0	87.9	88.1	88.1	88.3
5°	87.0	87.4	88.3	88.8	89.3	89.5	90.3	90.5	90.9	91.1	91.0
7.5°	88.3	88.8	89.9	90.8	91.5	92.0	93.3	93.9	94.5	94.7	94.9
10°	90.7	91.4	92.6	93.7	94.7	95.4	96.5	97.3	97.9	98.1	98.3
12.5°	93.9	94.7	96.2	97.7	98.8	99.2	99.1	98.9	98.9	98.8	98.9
15°	97.6	98.4	100.3	101.7	101.8	100.5	98.7	97.8	97.6	97.6	97.7
17.5°	101.9	102.9	104.1	104.9	103.0	99.8	97.7	96.8	96.6	96.5	96.3
20°	106.8	107.4	107.8	106.8	102.6	98.9	96.5	95.2	94.2	94.1	93.7
22.5°	112.0	111.8	111.3	107.7	101.5	96.8	93.5	91.1	89.8	89.7	89.3
25°	115.8	115.0	113.5	107.9	99.5	93.4	88.7	84.9	83.2	82.4	82.6
27.5°	118.3	116.6	114.0	106.9	96.0	88.2	81.6	76.6	74.1	73.7	74.0
30°	121.3	118.6	114.4	104.4	91.0	80.9	72.3	67.3	65.9	65.2	65.4
32.5°	124.9	121.4	115.7	100.6	84.7	72.4	63.1	59.6	58.0	56.7	57.1
35°	129.6	125.2	117.8	95.2	76.7	63.4	56.5	53.3	50.4	49.0	49.1
37.5°	135.1	130.1	119.6	88.9	68.0	56.6	50.8	47.0	43.4	40.7	40.2
40°	143.9	139.8	121.1	81.9	59.7	51.0	45.2	40.9	37.5	34.8	34.5
42.5°	158.6	151.5	121.2	73.5	52.6	46.2	40.6	35.9	32.1	29.8	29.7
45°	175.9	164.9	119.1	64.5	46.4	41.4	36.5	31.2	29.0	27.5	27.3
47.5°	196.4	180.3	114.5	56.1	41.1	36.7	32.3	29.1	27.5	26.4	26.4
50°	219.8	198.4	109.9	48.9	36.0	32.9	29.9	28.2	27.0	26.0	25.9
52.5°	246.1	219.8	108.4	41.6	31.8	29.4	29.1	27.5	26.5	25.8	25.6
55°	277.6	243.7	109.8	35.9	28.5	28.0	28.6	27.3	26.6	25.5	25.2
57.5°	314.0	267.1	108.3	31.1	26.2	26.7	28.0	27.3	26.7	25.3	24.9
60°	348.3	288.0	98.1	27.1	24.0	25.1	27.2	26.4	25.5	25.2	25.0
62.5°	366.7	294.8	78.2	24.0	22.3	23.5	25.9	24.9	24.3	25.0	25.1
65°	366.9	287.1	57.5	21.7	20.9	22.1	24.6	24.3	24.7	26.3	26.6
67.5°	346.5	263.7	40.6	19.6	19.5	21.0	25.2	27.2	27.5	29.1	29.1
68°	339.5	257.9	37.7	19.3	19.2	21.0	25.7	27.7	27.9	29.4	29.3
70°	301.1	218.1	27.3	18.1	18.7	22.5	28.4	29.1	27.9	29.6	29.5
72.5°	235.4	161.3	20.4	16.8	17.8	22.2	28.6	27.9	26.1	26.5	26.0
75°	159.1	102.8	16.8	15.4	15.8	18.8	26.0	26.3	24.2	23.8	23.2
77.5°	83.3	48.2	13.6	13.7	14.1	16.3	23.2	23.9	22.0	20.8	20.6
80°	30.7	19.1	11.1	12.1	12.3	14.3	19.9	21.0	19.2	18.3	18.1
82.5°	11.2	9.5	9.2	10.6	10.4	12.2	17.4	18.2	16.3	15.4	14.9
85°	3.1	3.5	5.8	8.3	8.1	9.5	14.0	14.7	13.1	10.8	10.5
87.5°	0.2	0.7	2.3	4.9	5.1	5.9	10.1	11.1	9.7	8.0	7.9
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)