

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: P400734

Luminaire Tested: **ENV-SA1-730-U-SL4-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1-730-U-SL4-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 666 lumens
Efficiency: N/A
Efficacy: 51.2 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): 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

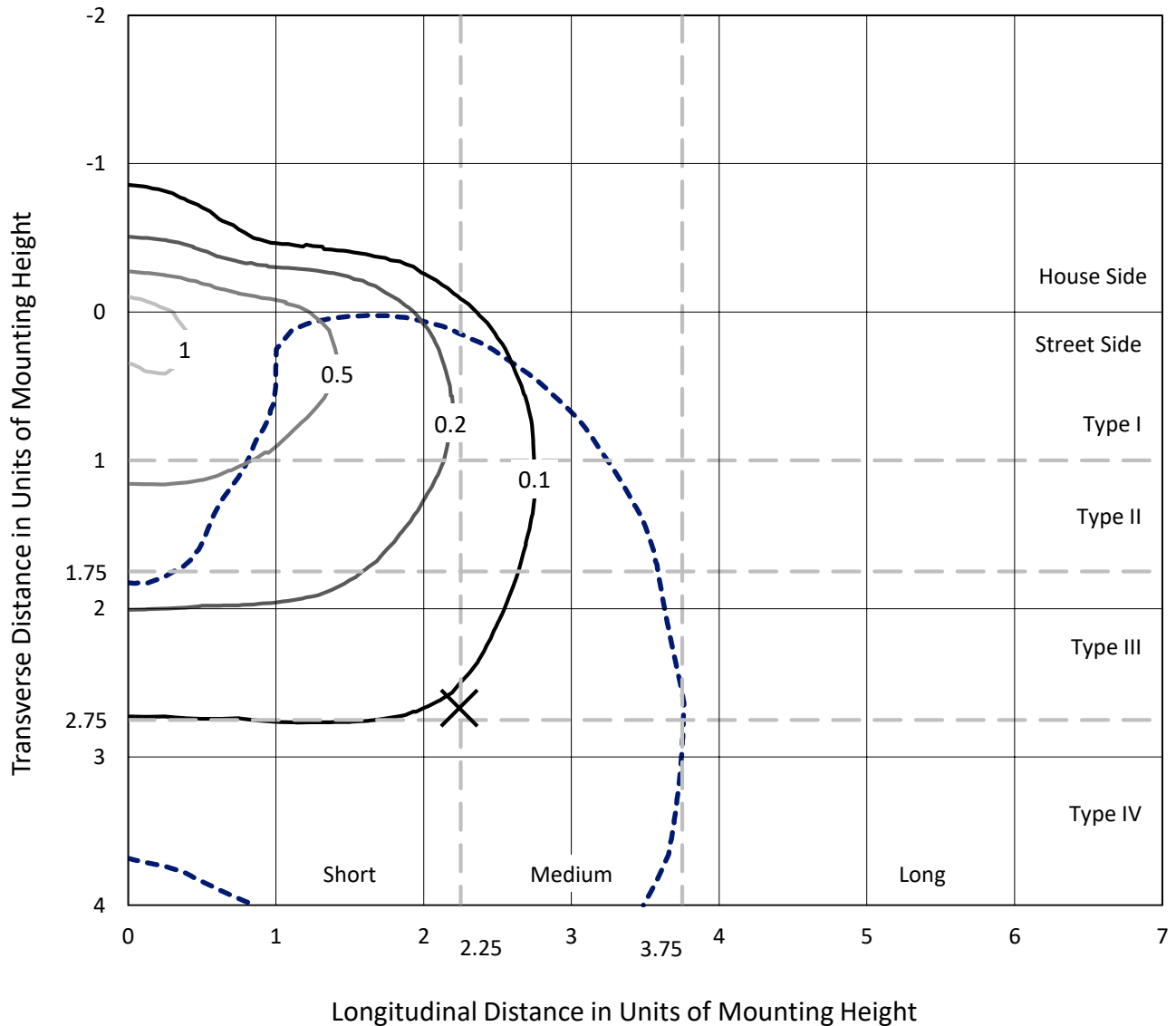


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

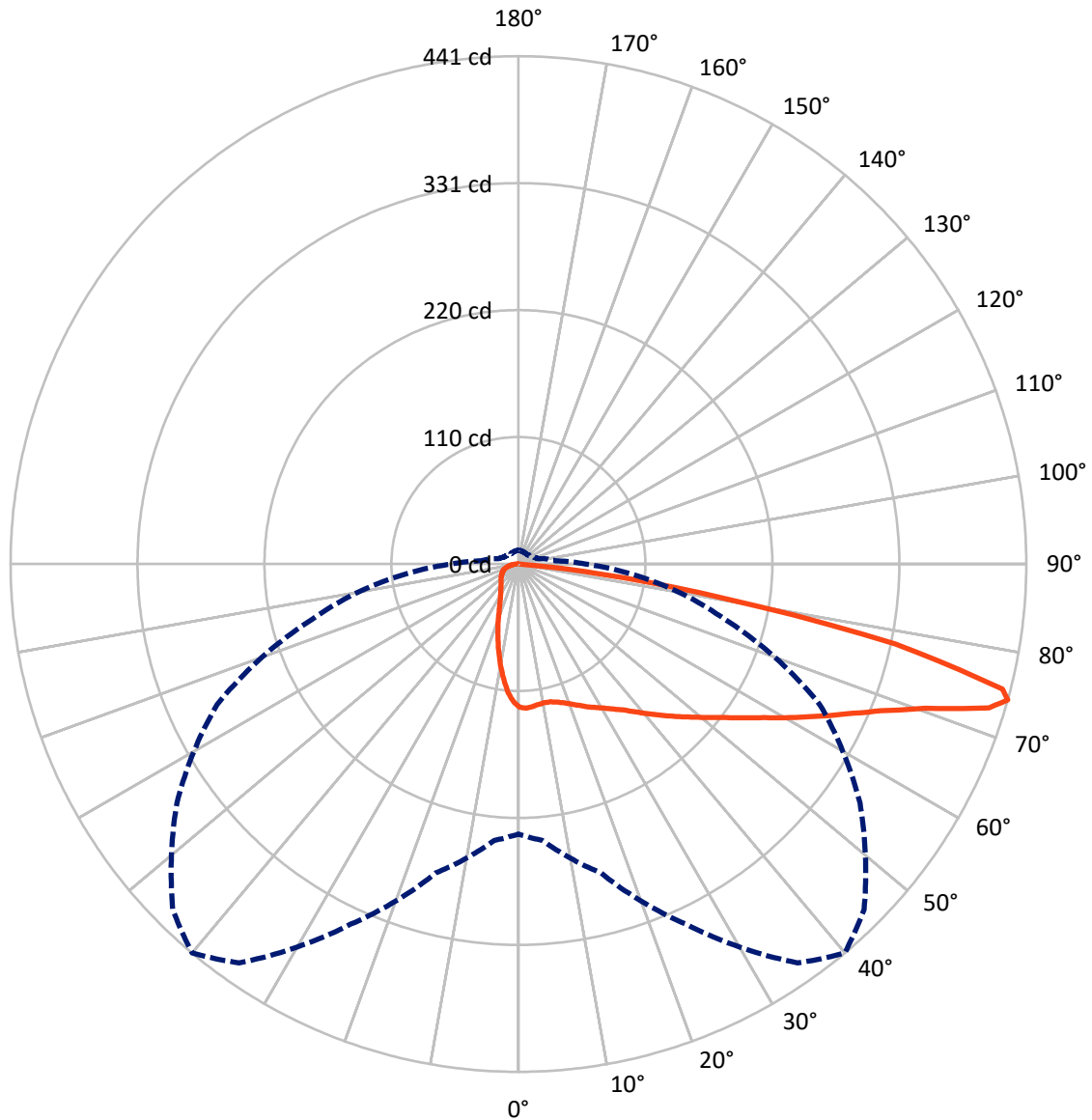


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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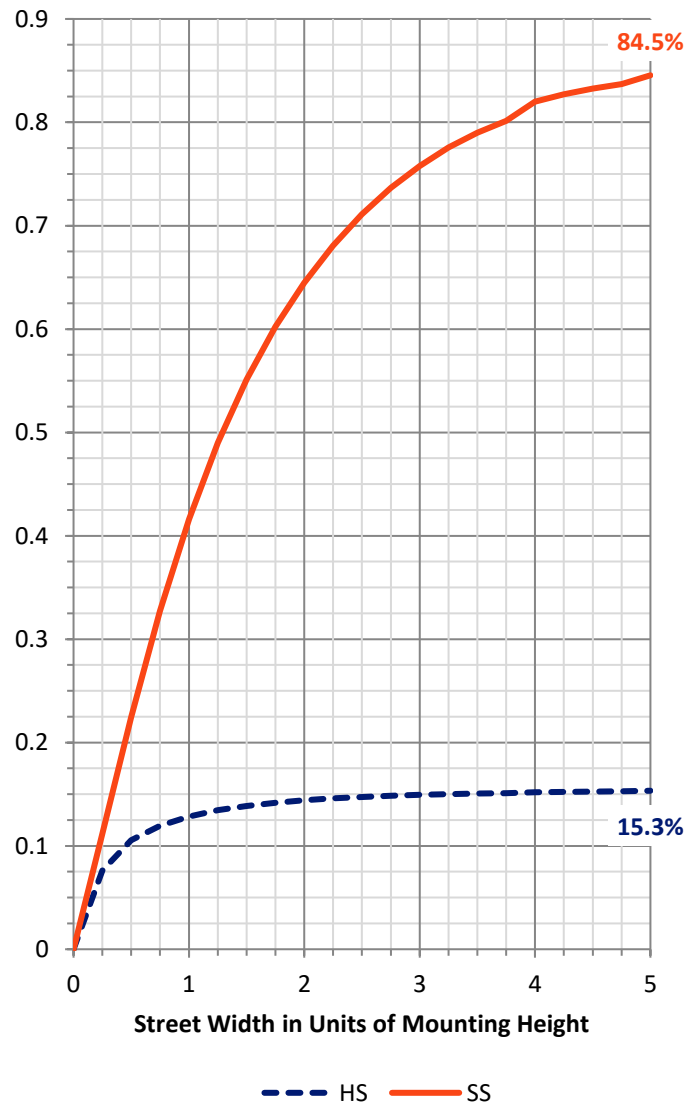
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	103.9	0.0	103.9
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	562.2	0.0	562.2
	% Fixture	84.4	0.0	84.4
Total	Lumens	666.0	0.0	666.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.0	1.6
10°-20°	28.3	4.2
20°-30°	43.3	6.5
30°-40°	62.6	9.4
40°-50°	90.1	13.5
50°-60°	124.4	18.7
60°-70°	156.8	23.5
70°-80°	136.0	20.4
80°-90°	13.6	2.0
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°	666.0	100.0
0°-180°	666.0	100.0



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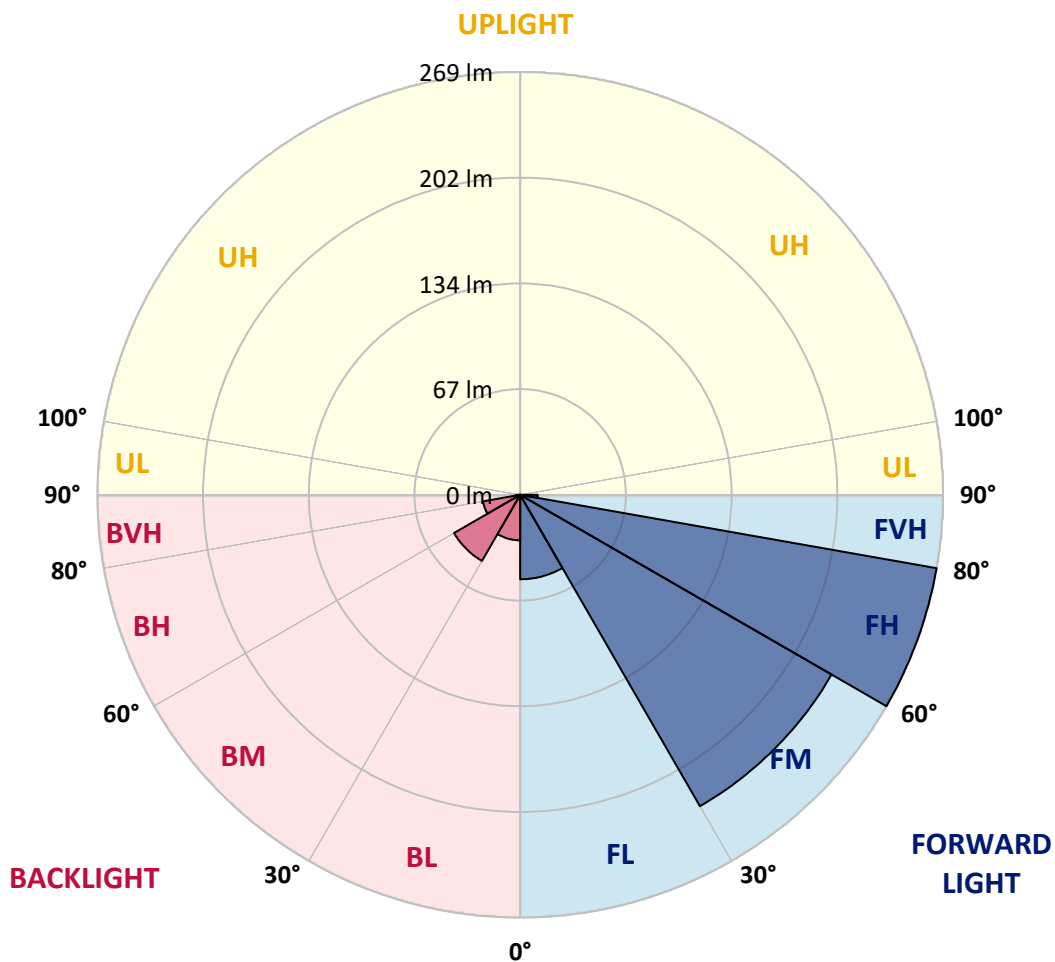
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	53.7	8.1			
FM	(30°-60°)	228.5	34.3			
FH	(60°-80°)	268.8	40.4			G0/660
FVH	(80°-90°)	11.1	1.7			G1/100
BL	(0°-30°)	28.9	4.3	B0/110		
BM	(30°-60°)	48.5	7.3	B0/220		
BH	(60°-80°)	24.0	3.6	B0/110		G0/110
BVH	(80°-90°)	2.5	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°	40°	45°	55°	65°	75°	85°
0°	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3
2.5°	125.9	125.8	126.1	125.9	125.6	125.4	125.3	124.7	124.5	123.9	123.1
5°	125.4	125.4	125.4	125.2	124.6	124.4	124.2	123.3	122.7	121.7	120.2
7.5°	123.7	124.0	123.9	123.8	123.3	123.1	122.8	121.7	120.9	119.4	117.5
10°	122.1	122.1	122.2	122.6	122.4	122.5	122.4	121.2	120.1	118.2	115.8
12.5°	119.8	120.2	120.8	121.9	122.4	122.8	122.8	121.9	120.7	118.4	115.6
15°	118.4	118.9	120.4	122.4	123.6	124.3	124.5	123.4	121.9	119.6	116.5
17.5°	117.8	118.4	121.2	124.0	126.1	126.7	126.8	125.6	124.0	121.2	117.6
20°	118.4	119.1	122.8	126.6	129.1	129.6	129.8	128.1	126.1	123.4	118.7
22.5°	120.7	121.7	125.8	129.9	132.5	133.2	133.0	130.6	128.6	125.7	120.1
25°	125.7	126.3	130.0	134.4	136.4	137.2	136.7	134.0	131.4	128.5	122.1
27.5°	131.5	132.3	136.2	139.5	140.8	141.0	140.5	137.7	134.8	132.4	125.2
30°	138.5	139.2	142.4	144.9	145.0	145.1	144.8	141.6	139.2	137.3	129.7
32.5°	145.9	146.0	149.3	150.5	149.7	150.0	149.7	146.2	144.5	143.9	135.6
35°	152.7	152.8	156.2	156.6	155.3	155.4	156.0	151.9	151.9	153.3	144.4
37.5°	159.2	159.5	162.5	162.1	161.6	162.5	163.3	159.8	161.8	165.8	155.1
40°	164.1	164.8	168.8	168.6	169.7	170.5	171.2	169.5	172.6	180.4	168.3
42.5°	167.3	168.7	174.3	175.7	177.6	179.2	180.4	180.3	185.9	196.7	182.2
45°	170.5	171.9	179.5	182.9	186.1	188.6	190.9	192.1	201.0	213.9	198.5
47.5°	174.5	175.7	184.2	190.9	195.0	198.4	202.5	205.1	216.4	231.4	213.6
50°	180.6	181.4	189.0	199.4	204.6	209.3	214.4	219.7	233.0	249.2	226.8
52.5°	188.5	189.0	194.6	208.0	216.3	221.3	228.9	235.9	249.8	265.4	237.6
55°	197.5	197.1	201.4	218.3	228.0	235.5	244.8	251.9	267.6	279.5	246.1
57.5°	206.5	206.2	209.6	228.2	242.7	251.5	261.2	268.7	283.9	292.7	252.3
60°	215.1	214.0	218.8	239.7	260.6	270.7	279.4	286.3	299.3	302.2	255.6
62.5°	222.7	222.7	229.7	254.0	282.0	291.1	298.0	302.6	313.9	309.1	254.3
65°	229.7	230.6	240.5	270.0	304.2	313.4	319.4	321.2	328.5	309.4	243.3
67.5°	237.6	238.9	253.0	288.7	329.7	339.6	344.8	344.2	338.9	304.9	219.8
70°	245.2	247.5	268.5	312.7	361.3	374.7	380.3	368.6	344.3	279.4	182.5
72.5°	250.8	254.7	281.2	336.8	406.5	427.1	424.8	375.2	319.0	230.3	138.1
74°	234.5	240.9	277.7	345.1	422.8	440.9	424.4	362.0	288.6	185.4	97.9
75°	215.4	221.7	260.0	341.8	425.9	434.0	403.8	338.6	258.8	143.7	63.9
77.5°	159.5	164.4	199.7	269.5	336.8	334.4	300.7	229.5	127.5	43.3	27.0
80°	70.4	74.1	98.6	135.6	182.4	181.7	169.3	105.4	41.1	22.7	16.5
82.5°	21.3	21.2	28.4	39.5	69.3	70.6	60.0	36.3	19.7	9.4	8.0
85°	0.1	0.1	0.1	0.1	0.3	2.6	2.2	7.0	3.6	1.7	2.9
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3
2.5°	122.6	122.5	122.2	121.5	121.0	119.5	120.0	119.0	118.9	118.7	118.6
5°	119.5	119.1	117.9	116.5	114.9	112.4	111.6	110.1	109.2	108.9	109.1
7.5°	116.3	115.4	113.1	110.1	106.9	103.2	100.6	98.5	97.0	96.5	95.8
10°	114.3	112.8	108.9	103.9	98.8	93.6	89.1	86.0	83.7	81.9	81.9
12.5°	113.6	111.6	105.9	98.7	91.2	83.8	77.3	73.2	69.3	67.4	67.1
15°	114.0	111.2	103.4	93.9	83.9	74.3	66.3	60.4	56.7	54.4	55.2
17.5°	114.4	110.9	100.9	88.8	76.8	65.7	56.4	49.7	45.2	44.0	43.5
20°	114.9	110.3	97.6	83.3	69.5	57.4	47.6	40.8	37.4	35.9	35.9
22.5°	115.6	109.5	94.2	77.2	62.0	49.3	40.2	35.1	32.5	31.6	31.6
25°	116.6	109.0	90.7	71.1	54.9	42.9	35.3	31.4	30.0	29.4	29.3
27.5°	118.5	109.1	87.3	64.9	47.9	37.5	31.9	29.3	28.2	27.9	27.8
30°	121.4	110.1	83.7	58.3	41.7	33.5	29.5	27.7	27.0	26.8	26.8
32.5°	125.4	111.9	80.7	52.4	37.1	30.2	27.5	26.3	25.9	25.7	25.8
35°	131.6	115.0	77.1	47.0	32.9	27.9	25.9	25.0	24.7	24.7	24.8
37.5°	139.7	119.8	73.6	42.0	30.0	25.9	24.4	23.9	23.6	23.8	23.9
40°	149.9	125.5	70.3	37.5	27.6	24.3	23.1	22.7	22.6	22.8	23.0
42.5°	160.9	132.4	67.3	33.9	25.7	23.0	22.0	21.8	21.7	21.8	22.1
45°	173.6	140.3	64.8	31.1	24.3	21.9	21.0	20.8	20.7	20.9	21.1
47.5°	185.4	147.4	62.8	29.2	23.1	21.1	20.2	19.9	19.9	19.9	20.1
50°	195.0	153.0	61.6	27.9	22.1	20.2	19.4	19.1	19.0	18.9	19.0
52.5°	203.3	157.2	61.2	27.1	21.3	19.4	18.6	18.4	18.2	18.0	18.1
55°	208.8	159.3	60.4	26.4	20.6	18.5	17.8	17.6	17.4	17.1	17.1
57.5°	212.0	159.1	58.6	26.0	20.2	17.7	17.0	17.0	16.8	16.3	16.4
60°	212.3	155.6	54.2	25.5	19.9	16.9	16.1	16.3	16.3	15.9	15.9
62.5°	207.2	146.4	45.7	24.2	19.5	16.3	15.4	15.9	16.1	15.7	15.7
65°	191.5	124.7	36.7	22.3	18.5	15.6	14.6	15.6	16.2	15.9	15.8
67.5°	161.5	98.8	30.4	20.2	17.4	14.7	13.8	15.1	15.9	15.9	15.8
70°	129.6	75.0	25.0	17.9	15.7	13.6	12.9	14.0	14.7	14.9	14.9
72.5°	89.3	45.8	20.3	15.4	13.8	12.3	11.7	12.4	12.8	13.2	13.1
74°	57.6	32.2	17.8	14.0	12.6	11.3	11.0	11.3	11.5	11.9	12.0
75°	38.5	26.3	16.6	13.0	11.9	10.6	10.4	10.7	10.9	11.2	11.2
77.5°	22.2	18.8	13.4	10.8	9.9	9.1	9.0	9.1	9.4	9.7	9.6
80°	15.4	14.3	10.6	8.4	7.8	7.4	7.5	7.6	8.1	8.2	8.1
82.5°	9.3	10.3	7.5	6.3	5.9	5.8	6.1	6.3	6.7	6.8	6.7
85°	3.7	4.9	3.7	3.5	3.9	4.3	4.8	5.1	5.3	5.3	5.3
87.5°	0.0	0.7	0.9	1.4	2.2	2.6	3.4	3.7	3.9	3.8	3.7
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)