

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: P400714

Luminaire Tested: **ENT-SA1-727-U-SL3-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400714
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: ENT-SA1-727-U-SL3-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K 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: 633 lumens
Efficiency: N/A
Efficacy: 48.7 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

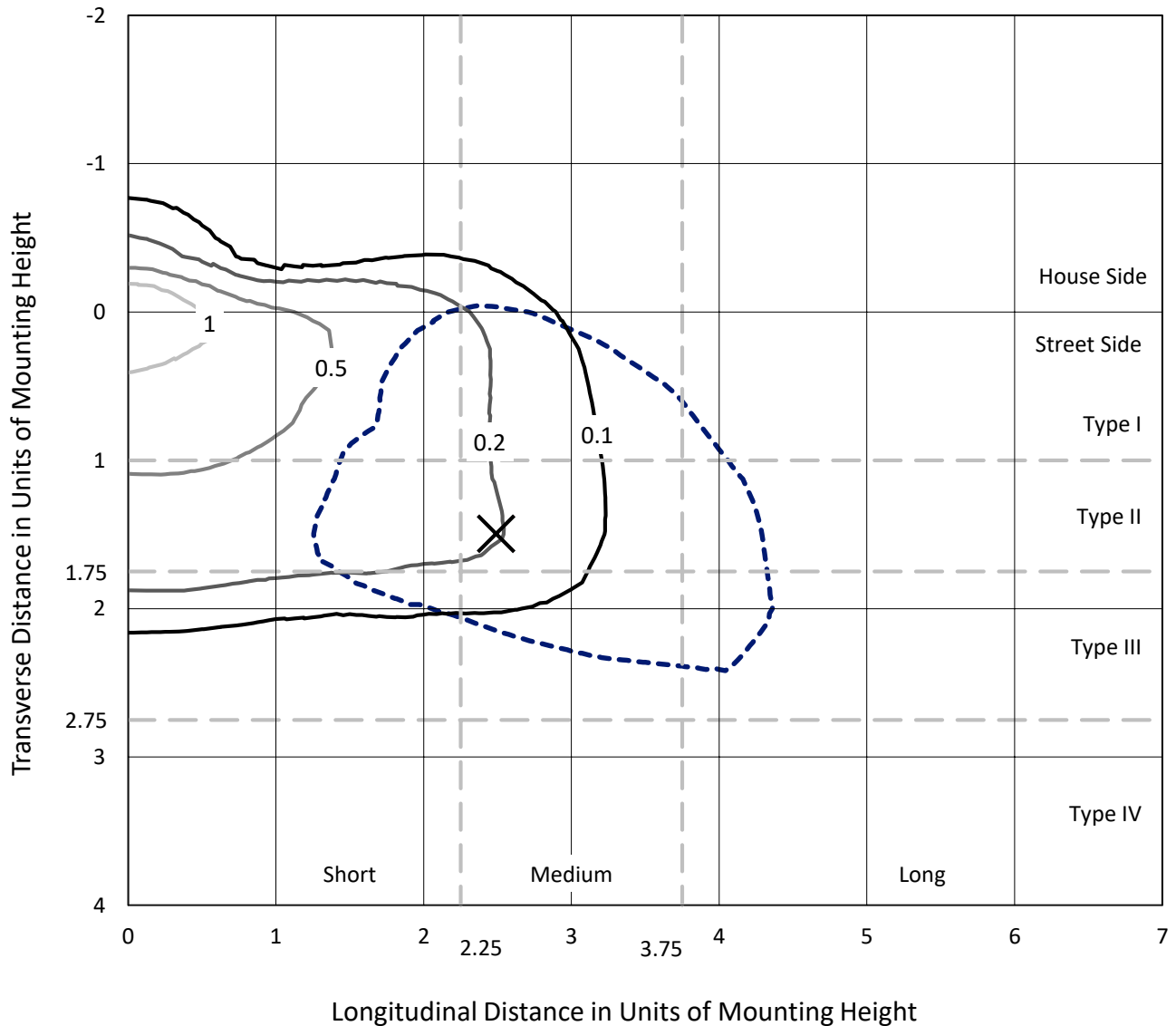


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

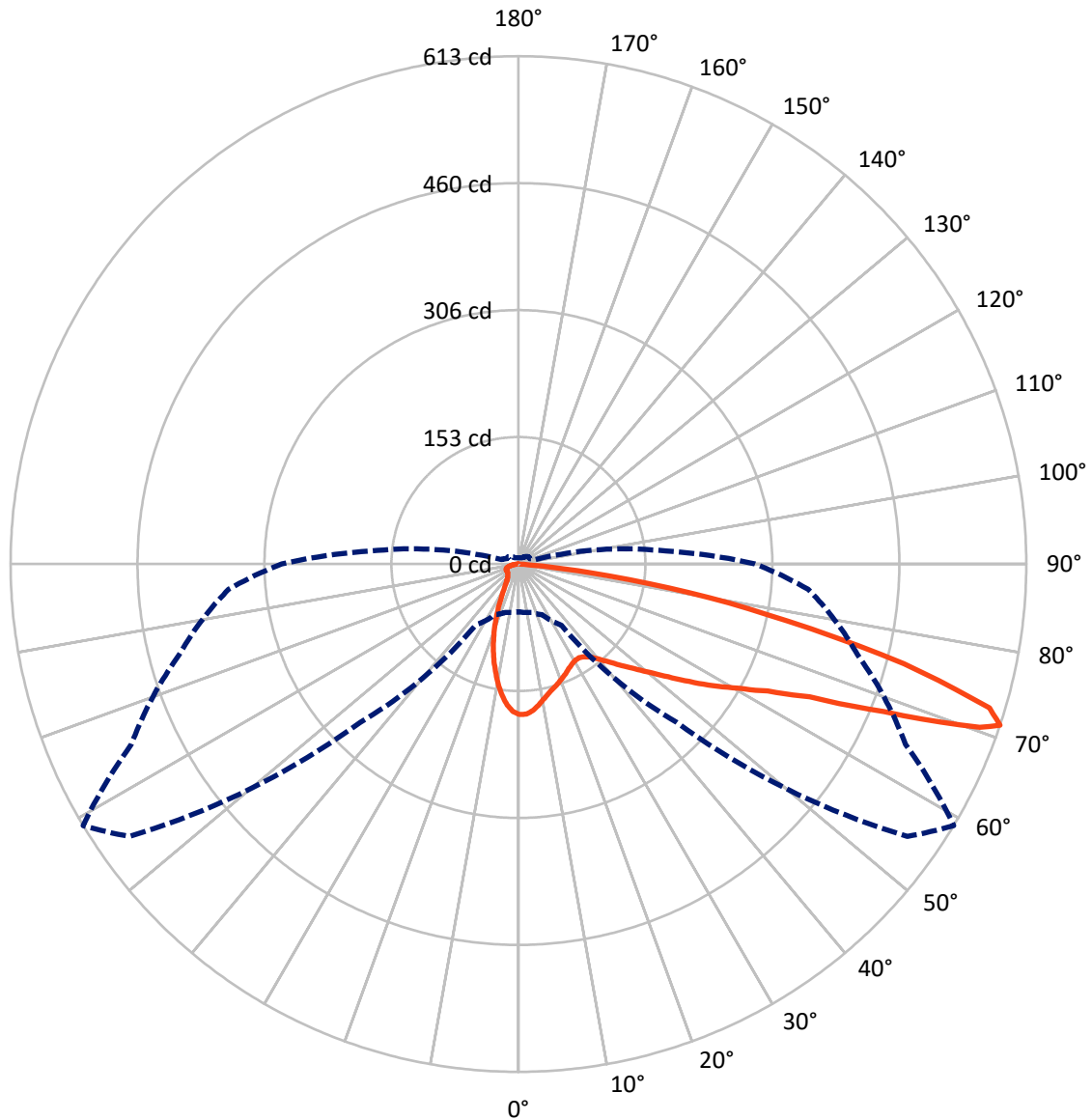


Based on 10 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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

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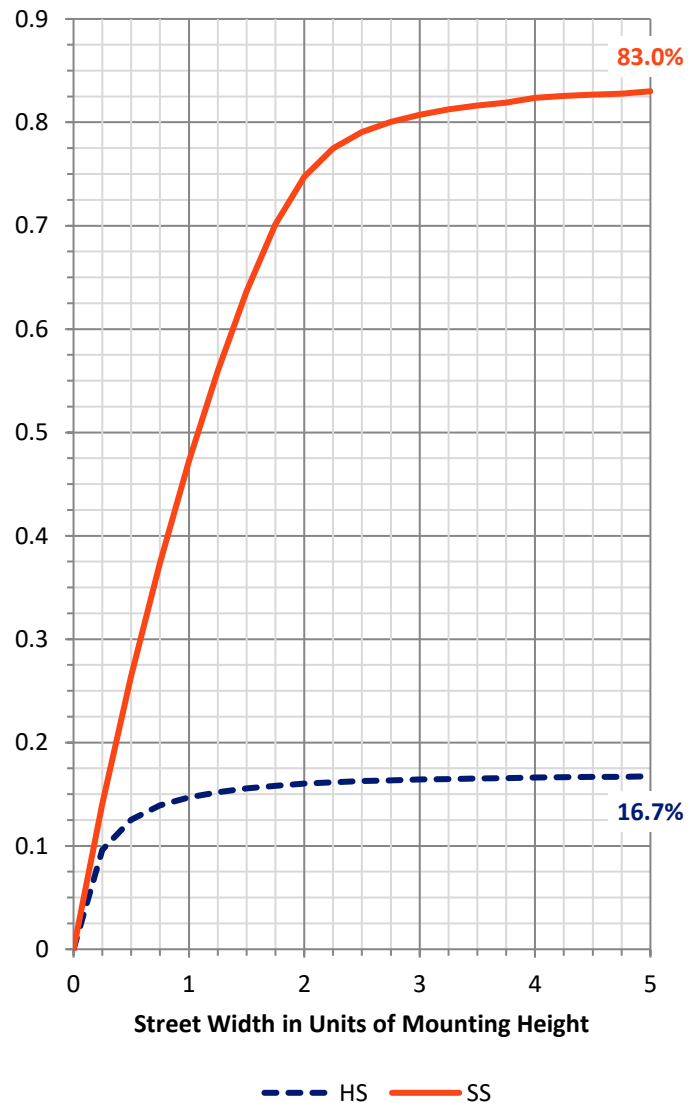
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	107.4	0.0	107.4
	% Fixture	17.0	0.0	17.0
Street Side	Lumens	525.6	0.0	525.6
	% Fixture	83.0	0.0	83.0
Total	Lumens	633.0	0.0	633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.7	2.5
10°-20°	35.3	5.6
20°-30°	44.8	7.1
30°-40°	57.3	9.0
40°-50°	79.5	12.6
50°-60°	117.7	18.6
60°-70°	159.1	25.1
70°-80°	112.8	17.8
80°-90°	11.0	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°	633.0	100.0
0°-180°	633.0	100.0

Coefficient of Utilization



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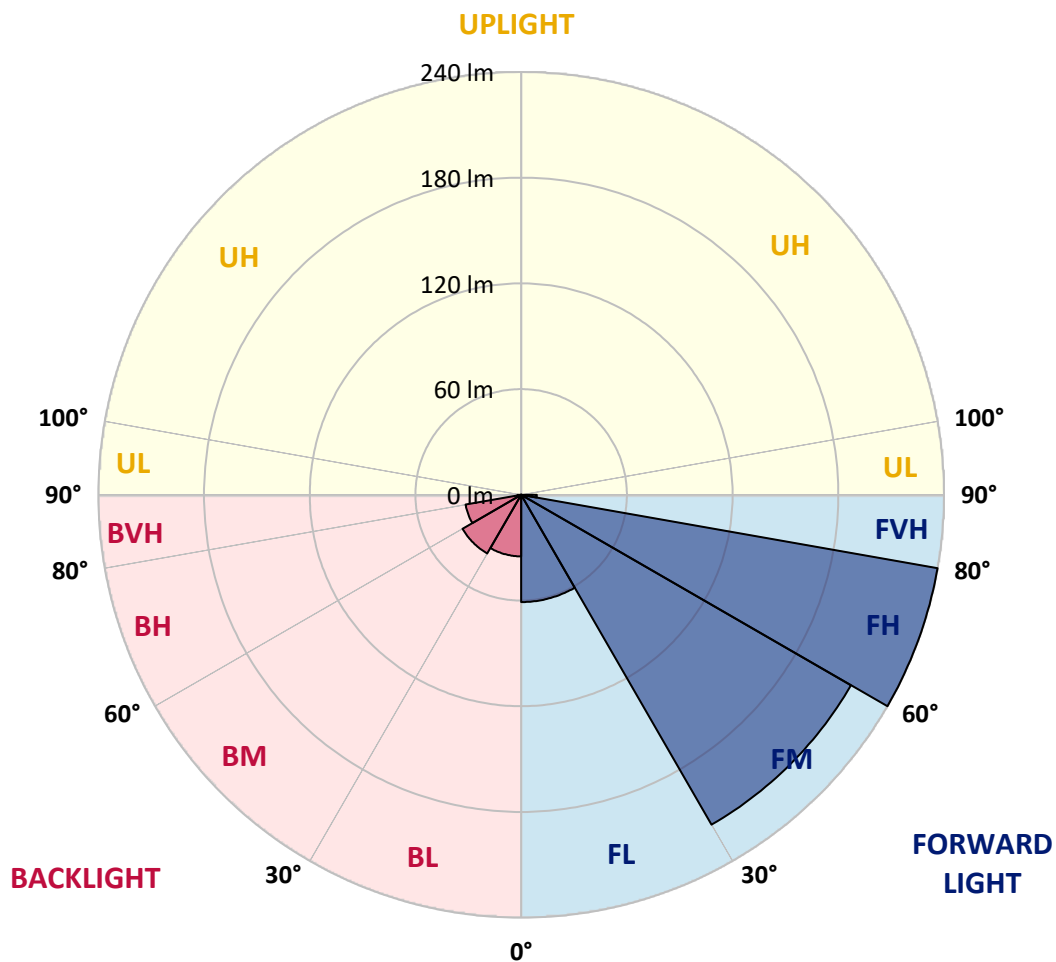
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	60.8	9.6			
FM	(30°-60°)	216.0	34.1			
FH	(60°-80°)	239.8	37.9			G0/660
FVH	(80°-90°)	8.9	1.4			G0/10
BL	(0°-30°)	34.9	5.5	B0/110		
BM	(30°-60°)	38.4	6.1	B0/220		
BH	(60°-80°)	32.0	5.1	B0/110		G0/110
BVH	(80°-90°)	2.1	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6
2.5°	180.0	180.7	181.0	181.4	181.4	181.6	181.4	181.3	181.7	181.3	180.3
5°	172.1	172.3	173.2	174.1	175.0	176.9	177.5	177.8	178.7	178.9	177.8
7.5°	161.2	162.3	163.4	164.5	166.5	169.1	171.4	172.3	173.9	174.8	173.4
10°	152.1	152.6	153.2	155.3	158.3	162.0	164.4	166.1	168.6	169.8	168.4
12.5°	142.9	143.4	144.5	147.3	150.4	154.8	159.1	160.5	163.4	165.8	164.7
15°	135.8	135.8	136.7	139.8	143.1	149.0	154.0	156.1	159.8	163.2	161.8
17.5°	129.6	129.9	130.4	132.4	137.0	143.2	149.6	152.3	156.8	161.2	159.4
20°	126.1	125.9	126.3	127.3	131.0	137.5	145.2	148.3	154.0	160.1	157.1
22.5°	124.9	124.7	124.5	124.4	126.8	132.3	140.5	144.4	151.4	159.4	155.0
25°	125.8	125.8	125.0	123.5	124.6	128.3	136.3	140.4	148.6	159.0	153.1
27.5°	128.3	128.3	127.1	125.1	124.6	126.3	132.6	137.0	146.2	159.2	151.5
30°	131.7	131.6	130.4	128.7	127.3	126.8	130.9	134.9	144.6	160.4	150.8
32.5°	135.6	135.4	134.8	133.6	132.0	129.6	131.1	134.6	144.2	162.5	150.9
35°	140.1	139.9	140.1	139.5	137.9	135.4	134.5	137.3	146.0	166.5	152.4
37.5°	144.2	144.0	145.4	145.7	145.4	142.0	140.8	142.6	150.3	172.7	155.6
40°	147.6	147.8	150.2	152.9	153.4	150.5	149.7	151.2	157.3	180.3	161.4
42.5°	151.3	151.9	155.6	160.3	162.2	160.2	160.7	161.8	166.1	190.7	169.8
45°	155.0	156.2	161.2	167.4	172.1	172.1	173.6	174.7	177.5	203.7	182.0
47.5°	161.4	162.3	167.8	175.2	182.3	184.6	188.9	188.6	190.7	218.0	196.3
50°	169.8	171.2	176.7	184.4	193.5	200.0	205.0	205.7	206.6	232.7	213.2
52.5°	181.3	183.0	187.6	194.7	205.5	216.1	226.5	226.1	225.0	248.7	232.7
55°	193.0	194.7	199.0	204.8	217.5	233.8	250.9	250.2	245.2	265.0	250.7
57.5°	204.8	206.3	210.8	215.8	230.8	254.7	276.5	277.0	266.6	283.1	268.5
60°	209.8	212.0	223.1	232.8	251.5	277.9	302.8	304.0	288.9	301.5	288.1
62.5°	187.4	190.0	208.4	234.6	279.9	322.7	336.9	337.6	315.8	321.8	309.6
65°	138.7	138.6	157.6	196.8	274.2	382.7	397.7	386.1	349.2	348.6	337.9
67.5°	79.4	81.8	87.9	117.4	208.9	393.8	505.9	475.8	408.3	390.5	375.7
70°	64.0	63.5	65.3	73.2	113.9	323.9	576.5	590.2	492.4	424.6	367.2
71°	57.7	58.5	60.4	67.5	89.9	270.2	573.0	612.7	515.3	423.7	350.9
72.5°	49.6	49.8	54.0	62.5	73.8	190.6	529.8	594.2	539.3	411.6	327.1
75°	33.8	34.2	40.8	50.3	67.4	90.5	379.1	480.6	490.9	384.7	270.1
77.5°	19.4	19.7	24.5	36.8	57.4	63.8	232.7	332.1	352.9	281.3	144.8
80°	10.0	10.5	13.6	23.2	43.8	51.6	133.5	208.8	200.8	97.2	33.6
82.5°	2.7	3.0	3.9	8.3	21.2	33.7	59.2	86.4	61.7	20.2	12.2
85°	0.0	0.0	0.0	0.1	0.2	4.7	12.5	15.5	8.6	3.9	3.3
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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6	181.6
2.5°	180.1	180.1	179.6	178.8	177.8	175.7	176.1	174.5	174.6	174.5	174.5
5°	177.0	176.5	175.1	172.5	169.7	165.9	165.4	162.3	160.6	160.1	160.7
7.5°	172.7	171.2	167.7	163.2	157.8	152.9	148.4	144.4	141.3	140.1	139.5
10°	167.0	165.1	159.4	151.5	144.1	136.5	129.4	124.8	118.8	116.9	116.4
12.5°	162.3	159.0	150.5	139.5	127.9	117.9	108.3	98.7	92.9	88.8	88.1
15°	158.3	153.6	141.4	127.2	112.8	98.9	85.9	73.0	64.8	61.4	58.9
17.5°	154.7	148.7	132.4	113.9	96.1	77.7	61.9	49.5	44.4	41.7	41.8
20°	151.1	143.4	122.9	100.6	79.6	59.2	43.8	38.0	35.4	34.9	34.6
22.5°	147.6	137.3	112.9	87.5	62.7	43.5	35.2	32.4	31.7	31.7	31.7
25°	143.6	131.2	102.8	74.1	47.5	34.3	30.3	29.3	29.4	29.8	29.9
27.5°	140.4	125.8	92.8	58.6	36.9	29.2	27.1	26.9	27.6	28.4	28.4
30°	137.6	121.0	82.0	45.8	29.4	25.6	24.9	25.1	25.9	26.6	26.9
32.5°	135.7	116.6	72.3	35.6	25.0	23.1	22.9	23.3	24.0	24.4	24.7
35°	134.8	113.4	61.8	28.7	22.3	21.3	21.2	21.5	21.8	21.9	21.8
37.5°	135.7	111.2	51.1	24.3	20.5	20.0	19.9	19.9	19.9	20.0	19.9
40°	138.4	110.3	41.5	21.5	19.4	19.0	18.7	18.4	18.3	18.3	18.2
42.5°	144.0	111.6	33.3	19.8	18.6	18.1	17.5	17.2	16.9	16.8	16.8
45°	153.0	115.2	27.7	18.7	17.9	17.1	16.4	16.1	15.8	15.9	15.8
47.5°	165.4	121.2	24.5	18.0	17.2	16.1	15.4	15.0	15.0	15.2	15.3
50°	179.4	129.6	22.6	17.4	16.6	15.2	14.5	14.2	14.3	14.9	15.0
52.5°	195.9	140.5	21.7	17.1	16.1	14.5	13.8	13.6	13.8	14.4	14.5
55°	213.7	153.0	22.9	17.2	15.7	14.0	13.3	12.9	13.2	13.8	13.8
57.5°	231.8	168.4	27.0	17.3	15.1	13.7	12.7	12.2	12.4	12.8	12.9
60°	250.0	183.7	33.9	17.4	15.0	13.3	12.3	11.5	11.6	11.8	11.9
62.5°	271.5	203.2	43.1	17.8	15.1	13.0	11.5	10.5	10.5	10.7	10.7
65°	304.1	232.1	49.2	17.6	15.6	12.7	10.6	9.7	9.6	9.7	9.7
67.5°	327.4	236.0	34.3	16.6	15.9	12.8	10.2	9.0	8.8	8.7	8.7
70°	302.7	198.6	22.7	15.7	15.4	13.0	9.8	8.5	8.2	7.9	7.8
71°	285.5	178.9	21.0	15.3	15.0	12.8	9.6	8.3	7.9	7.7	7.6
72.5°	260.1	159.7	19.4	14.8	14.2	12.5	9.4	8.0	7.5	7.2	7.2
75°	205.5	122.4	17.0	13.6	12.3	10.3	8.6	7.4	7.0	6.6	6.5
77.5°	92.9	48.7	13.0	11.7	10.0	8.2	7.5	6.9	6.3	6.1	6.0
80°	26.0	18.5	9.5	9.3	7.5	6.3	6.1	5.9	5.7	5.3	5.3
82.5°	12.0	10.8	6.8	6.5	5.1	4.5	4.8	4.9	4.9	4.5	4.4
85°	3.3	3.6	3.1	3.5	3.3	3.0	3.5	3.8	3.9	3.6	3.3
87.5°	0.3	0.6	0.8	1.4	1.7	1.7	2.2	2.7	2.8	2.2	2.3
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)