

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: P400757

Luminaire Tested: **ENT-SA1-735-U-T2-HSS-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400757
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1-735-U-T2-HSS-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 549 lumens
Efficiency: N/A
Efficacy: 42.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Semi-Cutoff
BUG Rating: B0 - U0 - G0

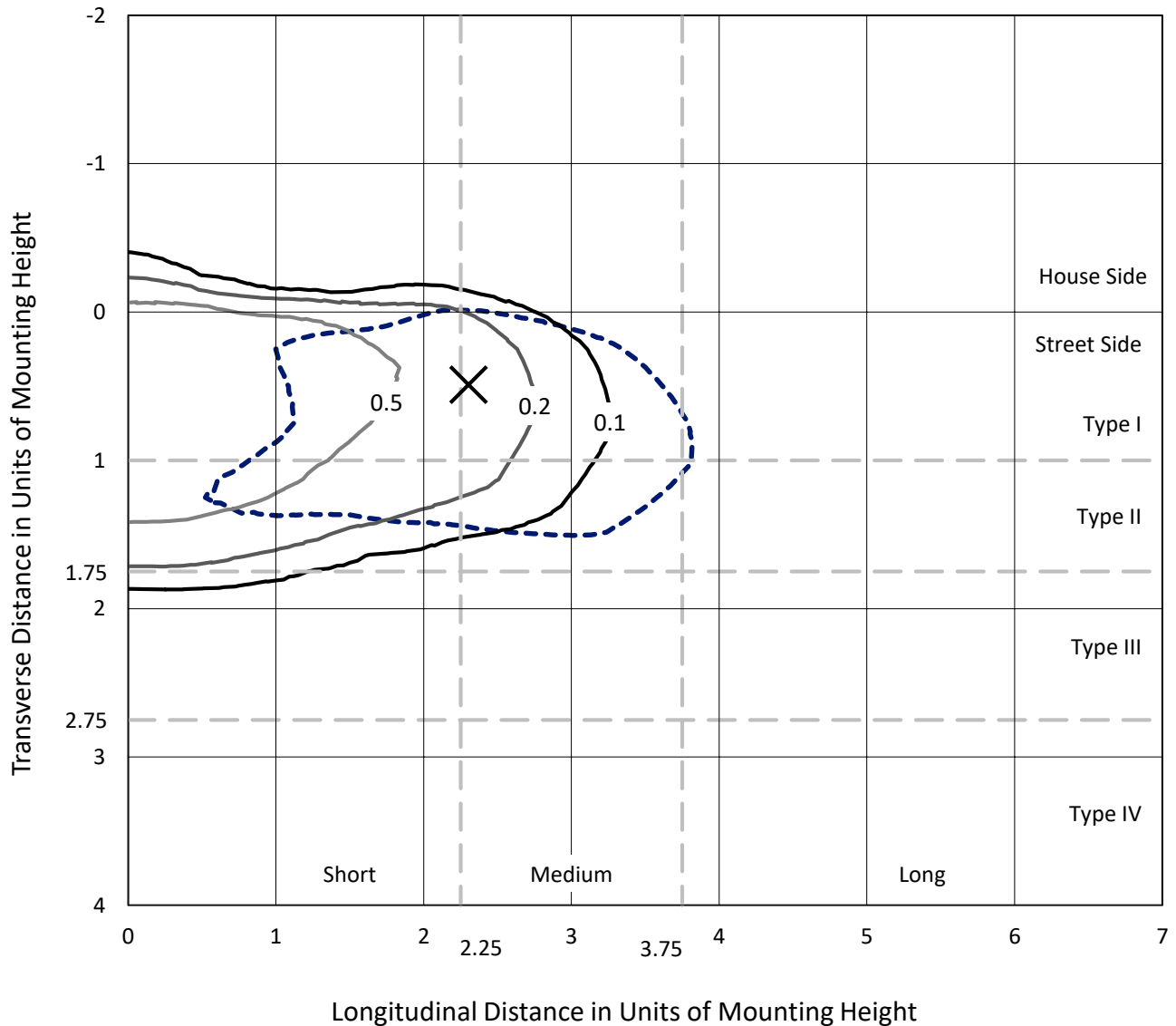
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

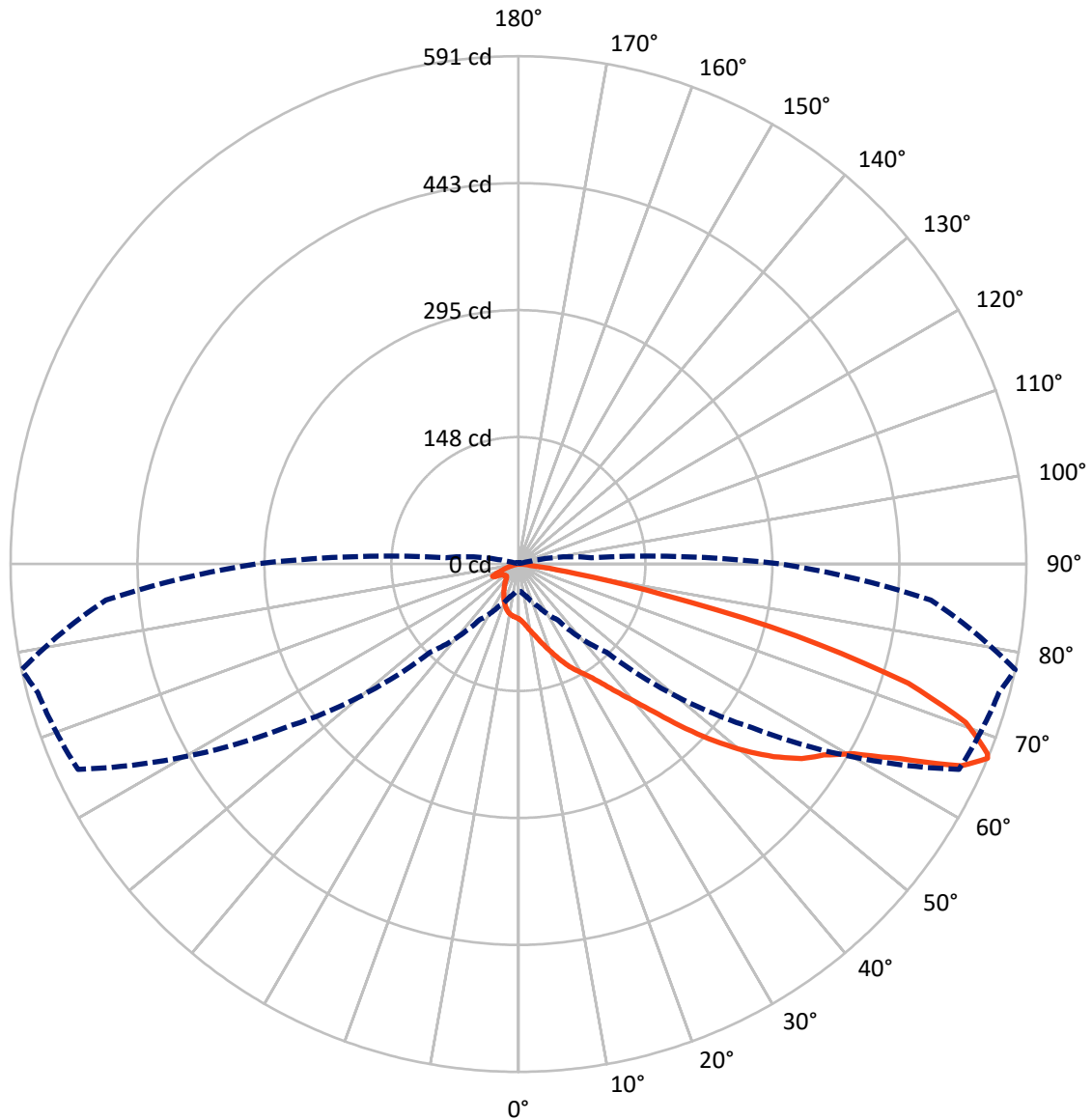
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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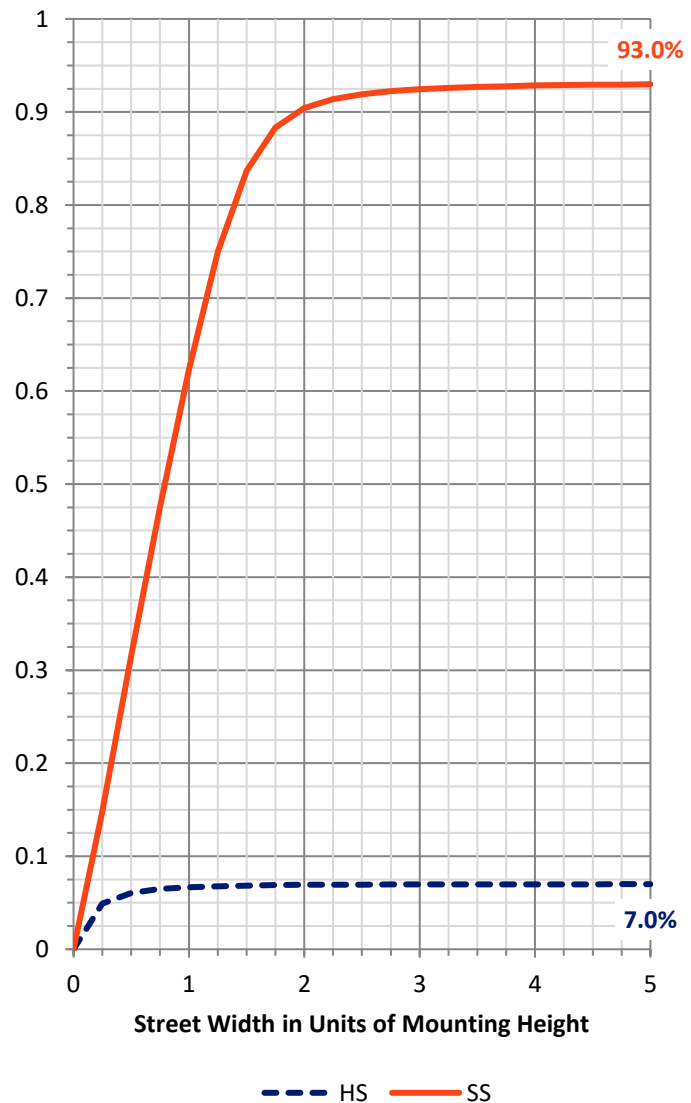
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	38.7	0.0	38.7
	% Fixture	7.1	0.0	7.1
Street Side	Lumens	510.3	0.0	510.3
	% Fixture	92.9	0.0	92.9
Total	Lumens	549.0	0.0	549.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.1	1.1
10°-20°	17.6	3.2
20°-30°	31.1	5.7
30°-40°	54.8	10.0
40°-50°	94.2	17.2
50°-60°	141.8	25.8
60°-70°	139.6	25.4
70°-80°	61.0	11.1
80°-90°	2.7	0.5
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°	549.0	100.0
0°-180°	549.0	100.0



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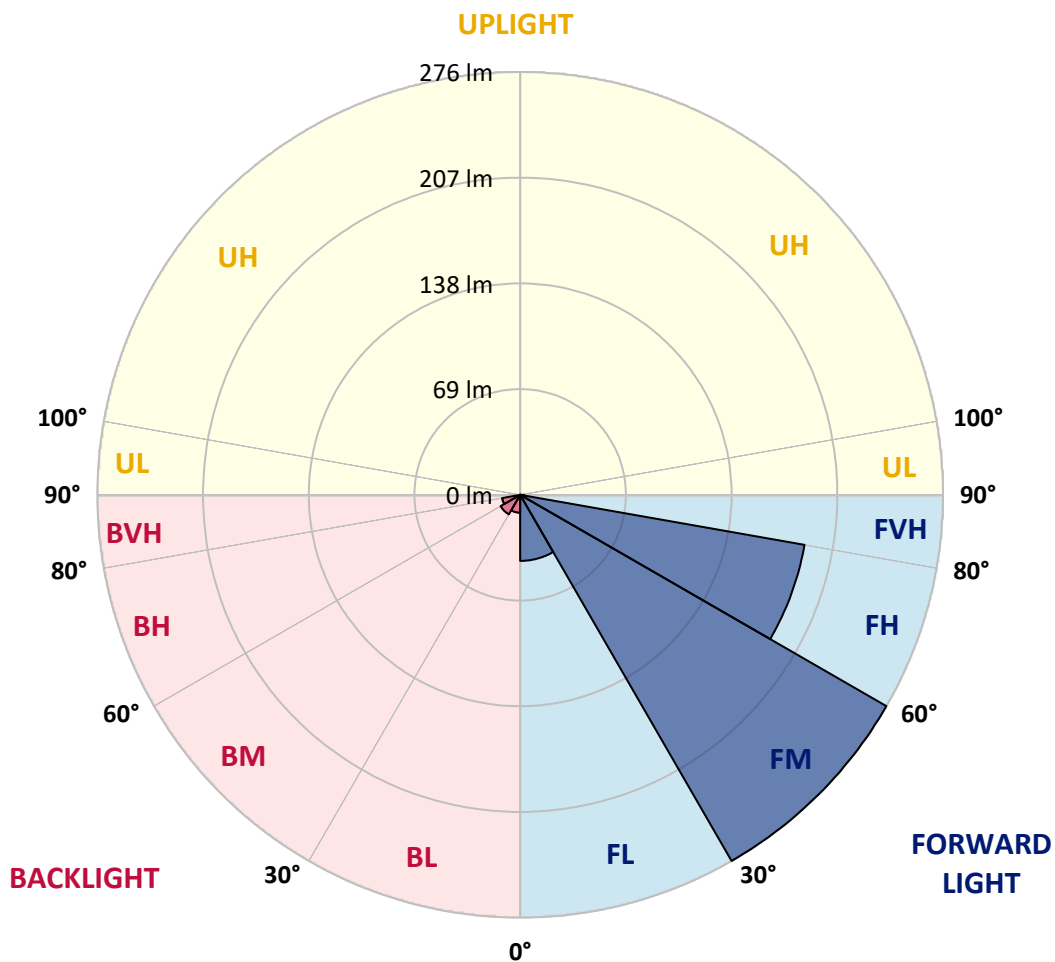
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	43.1	7.9			
FM (30°-60°)	276.2	50.3			
FH (60°-80°)	188.6	34.3			G0/660
FVH (80°-90°)	2.4	0.4			G0/10
BL (0°-30°)	11.7	2.1	B0/110		
BM (30°-60°)	14.7	2.7	B0/220		
BH (60°-80°)	12.0	2.2	B0/110		G0/110
BVH (80°-90°)	0.3	0.0			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
2.5°	73.1	73.4	73.0	72.7	71.9	70.9	69.8	68.3	66.6	66.0	65.0
5°	82.1	82.1	82.1	81.3	80.6	78.6	76.2	73.8	70.8	69.6	67.2
7.5°	86.8	86.9	87.3	87.3	86.8	85.5	82.9	80.2	75.6	74.1	70.2
10°	87.4	87.8	88.6	89.8	90.8	91.5	89.9	87.1	81.5	79.6	74.1
12.5°	86.0	86.2	87.6	89.8	92.8	95.8	95.9	94.2	88.0	85.4	78.7
15°	82.9	83.2	85.2	88.8	93.4	98.8	101.9	101.4	95.6	92.6	83.9
17.5°	78.0	78.3	80.8	86.1	92.9	100.8	107.4	109.9	103.1	100.3	89.1
20°	77.8	77.9	78.8	82.8	90.9	101.9	112.7	118.8	112.3	109.2	95.3
22.5°	91.0	90.1	88.1	85.5	89.0	101.6	117.6	128.2	123.7	118.8	102.4
25°	105.7	106.0	103.8	97.7	93.2	101.1	121.3	138.8	134.3	129.4	109.7
27.5°	121.2	120.7	118.7	113.1	105.7	104.8	124.0	147.4	144.5	138.6	116.2
30°	136.3	135.8	134.4	128.7	120.7	114.4	126.0	155.1	154.2	147.7	121.5
32.5°	153.5	154.2	152.3	144.9	135.1	127.4	130.5	163.3	166.0	158.0	127.0
35°	173.5	173.5	169.7	162.9	152.8	141.9	139.3	172.2	180.9	172.4	135.6
37.5°	190.0	191.3	189.1	179.3	169.8	158.4	152.9	183.3	199.4	190.7	147.3
40°	203.0	205.3	205.4	195.7	186.9	179.5	171.7	198.9	222.6	211.4	161.2
42.5°	215.1	215.5	217.2	211.6	202.9	200.9	193.0	217.3	251.6	238.5	179.8
45°	230.4	231.2	230.2	226.1	218.6	221.1	216.7	240.7	284.2	273.1	201.6
47.5°	253.0	255.0	253.4	246.0	236.8	241.7	238.5	264.0	321.0	307.6	225.4
50°	274.2	275.7	277.4	275.0	265.8	261.2	257.2	288.7	352.5	341.2	248.7
52.5°	276.4	277.9	286.9	295.3	301.4	289.2	276.9	313.7	381.7	372.2	270.0
55°	261.7	262.6	277.8	294.3	322.2	326.3	305.9	338.3	406.2	399.7	284.4
57.5°	220.6	224.5	246.1	271.4	317.1	348.4	347.1	367.0	422.1	419.1	302.8
60°	144.9	149.2	175.0	213.3	279.1	342.5	392.3	410.0	444.3	447.6	335.2
62.5°	75.1	80.1	102.8	136.8	202.3	298.3	407.6	480.6	487.0	498.3	393.0
65°	42.9	43.9	55.3	80.1	125.2	213.6	389.2	550.6	543.3	566.0	466.7
67°	31.9	31.9	39.8	54.5	79.3	145.2	331.9	565.3	578.6	590.7	481.6
67.5°	28.6	30.1	36.9	50.2	71.2	128.8	310.6	561.4	580.9	588.4	476.4
70°	19.6	20.6	26.5	36.0	48.0	67.0	203.6	496.5	559.7	552.0	431.8
72.5°	11.8	12.2	17.5	25.9	35.8	35.9	111.1	376.9	474.2	474.1	352.6
75°	7.3	7.7	10.3	17.3	25.1	22.5	51.4	256.4	340.6	334.0	236.3
77.5°	4.1	4.7	6.2	9.5	15.9	14.3	21.7	143.7	184.0	172.7	117.4
80°	1.7	2.0	3.5	4.5	9.0	8.6	8.9	50.5	74.5	67.1	39.3
82.5°	0.4	0.5	1.2	2.2	3.5	3.5	2.8	13.8	17.6	16.4	10.1
85°	0.0	0.0	0.1	0.1	0.1	0.2	0.7	1.5	1.9	2.2	1.7
87.5°	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.3	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°	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7	63.7
2.5°	64.2	63.4	62.0	60.4	58.9	57.7	56.6	55.2	55.0	55.0	55.0
5°	65.5	63.8	60.5	57.2	53.9	51.0	48.8	47.0	45.5	45.0	45.4
7.5°	67.5	64.5	58.7	52.9	47.8	43.5	40.4	38.0	36.8	36.2	35.7
10°	70.0	65.4	56.2	47.8	41.3	36.2	32.9	30.5	29.4	28.7	28.8
12.5°	72.8	66.1	53.1	42.2	35.0	30.3	27.5	25.6	23.7	22.6	22.9
15°	75.6	66.6	49.3	37.0	30.1	26.0	22.1	18.6	17.3	17.1	17.0
17.5°	78.7	66.5	45.1	32.2	26.0	20.2	16.3	15.9	15.8	15.8	15.7
20°	81.9	66.0	40.2	28.2	21.9	15.4	14.7	14.5	14.2	14.1	14.0
22.5°	85.4	65.1	35.8	24.7	16.3	14.0	13.2	12.6	12.1	11.8	11.9
25°	88.6	63.3	31.5	21.4	13.9	12.6	11.4	10.5	10.0	9.6	9.7
27.5°	90.8	60.2	27.7	17.2	12.8	11.1	9.8	8.9	8.1	7.8	7.8
30°	91.0	55.8	24.4	14.1	11.7	9.8	8.4	7.3	6.9	6.7	6.6
32.5°	90.8	51.3	22.0	13.0	10.6	8.6	7.1	6.4	6.0	5.8	5.8
35°	91.8	46.6	19.7	12.0	9.5	7.5	6.3	5.6	5.3	5.1	5.1
37.5°	94.9	43.4	17.3	10.9	8.5	6.6	5.7	5.1	4.7	4.5	4.5
40°	99.1	40.7	14.4	9.9	7.4	6.0	5.2	4.6	4.2	4.0	4.0
42.5°	106.5	39.7	12.1	8.9	6.5	5.4	4.7	4.1	3.7	3.5	3.5
45°	117.6	40.2	11.0	7.9	5.9	4.8	4.2	3.6	3.2	3.1	3.1
47.5°	129.8	42.4	10.3	7.1	5.4	4.5	3.8	3.2	2.8	2.7	2.7
50°	143.4	45.8	9.7	6.3	4.8	4.1	3.4	2.8	2.5	2.4	2.4
52.5°	156.4	50.1	9.1	5.7	4.5	3.7	3.0	2.5	2.3	2.2	2.2
55°	166.3	52.9	8.6	5.3	4.2	3.4	2.7	2.4	2.1	2.0	2.0
57.5°	180.1	57.6	7.9	4.7	3.8	3.1	2.5	2.2	1.9	1.9	1.9
60°	208.1	70.0	7.0	4.3	3.4	2.8	2.4	2.0	1.8	1.7	1.7
62.5°	258.7	90.7	6.1	4.0	3.0	2.5	2.1	1.8	1.5	1.3	1.3
65°	307.4	99.2	5.2	3.5	2.7	2.2	1.9	1.5	1.1	0.9	0.9
67°	304.7	84.9	4.3	3.0	2.3	2.0	1.5	1.2	0.8	0.5	0.5
67.5°	297.5	79.0	4.2	2.9	2.2	1.9	1.5	1.1	0.7	0.4	0.4
70°	252.8	55.3	3.3	2.3	1.9	1.7	1.2	0.8	0.4	0.2	0.2
72.5°	205.4	43.8	2.6	1.9	1.5	1.2	1.0	0.5	0.3	0.1	0.1
75°	145.2	26.9	2.3	1.7	1.2	0.9	0.8	0.5	0.3	0.2	0.1
77.5°	71.7	12.4	1.9	1.4	1.1	0.9	0.7	0.6	0.5	0.4	0.2
80°	21.0	4.0	1.2	1.0	1.0	0.9	0.8	0.7	0.6	0.5	0.3
82.5°	4.7	1.4	0.4	0.5	0.7	0.7	0.7	0.5	0.4	0.2	0.1
85°	0.6	0.3	0.3	0.3	0.4	0.4	0.3	0.2	0.2	0.0	0.0
87.5°	0.2	0.2	0.2	0.3	0.3	0.3	0.2	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

(END OF REPORT)