

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: P400746

Luminaire Tested: **ENC-SA1-730-U-T4W-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1-730-U-T4W-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 703 lumens
Efficiency: N/A
Efficacy: 54.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - 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

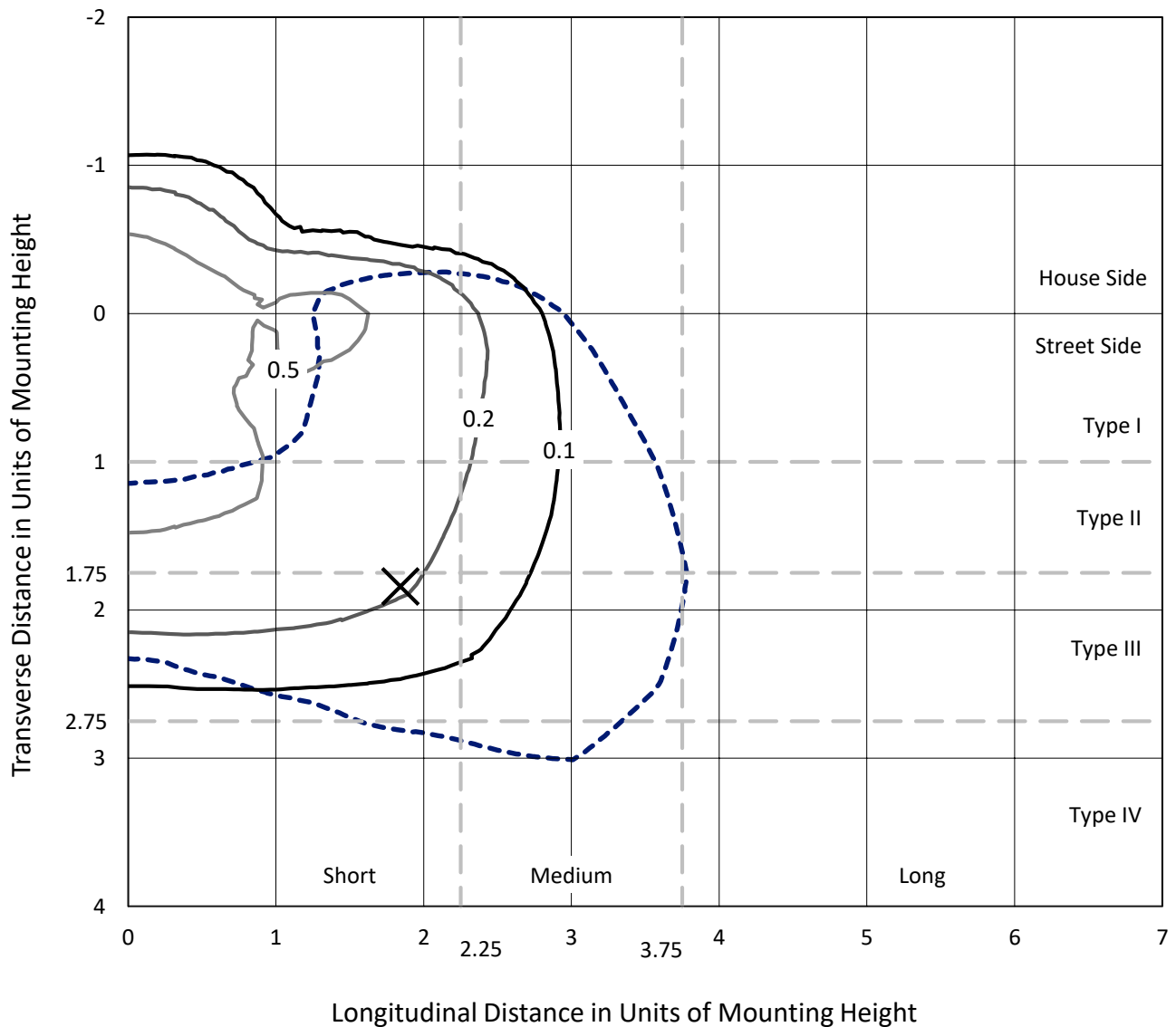


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Iso-Footcandle Lines of Horizontal Illumination

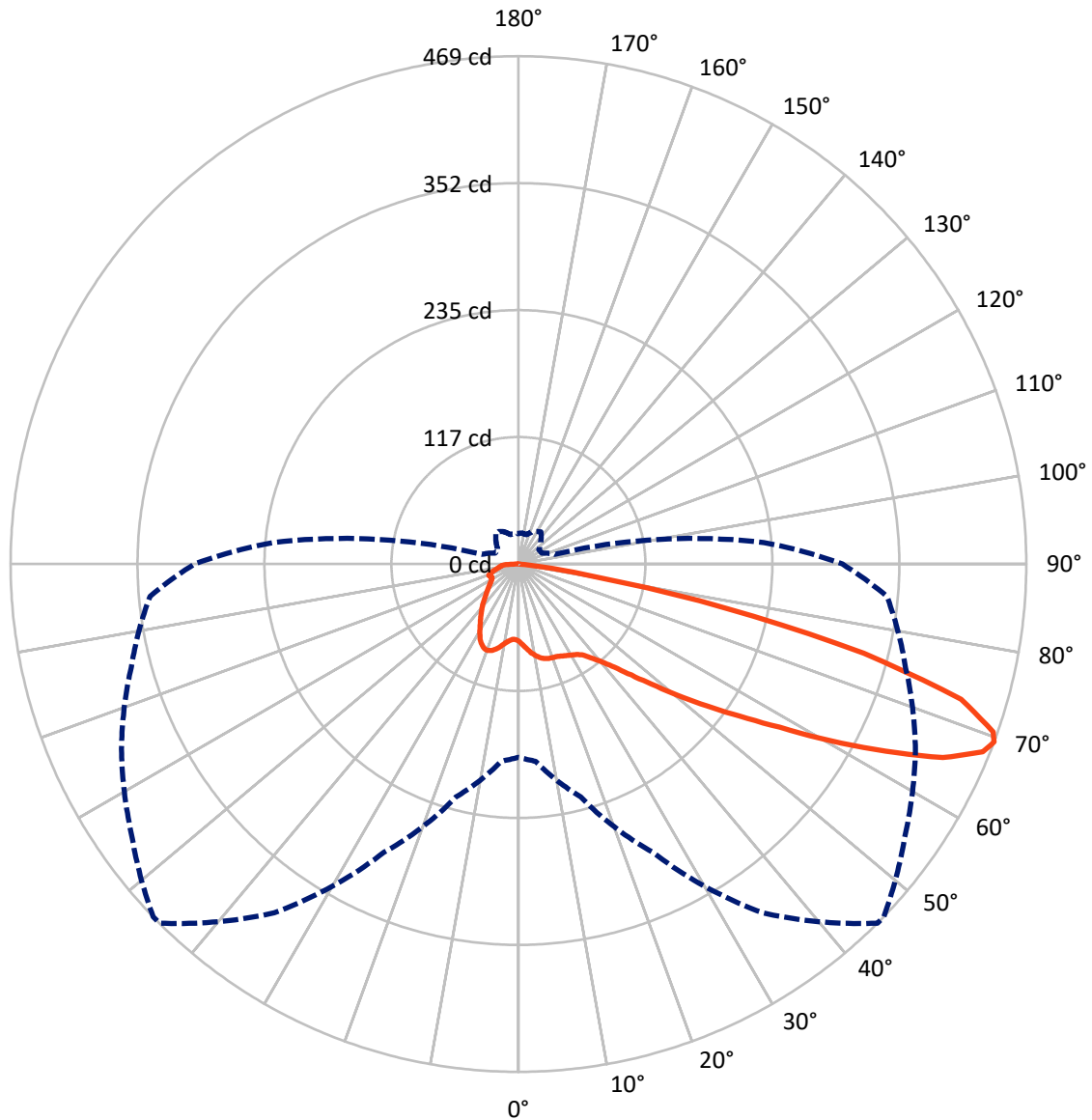
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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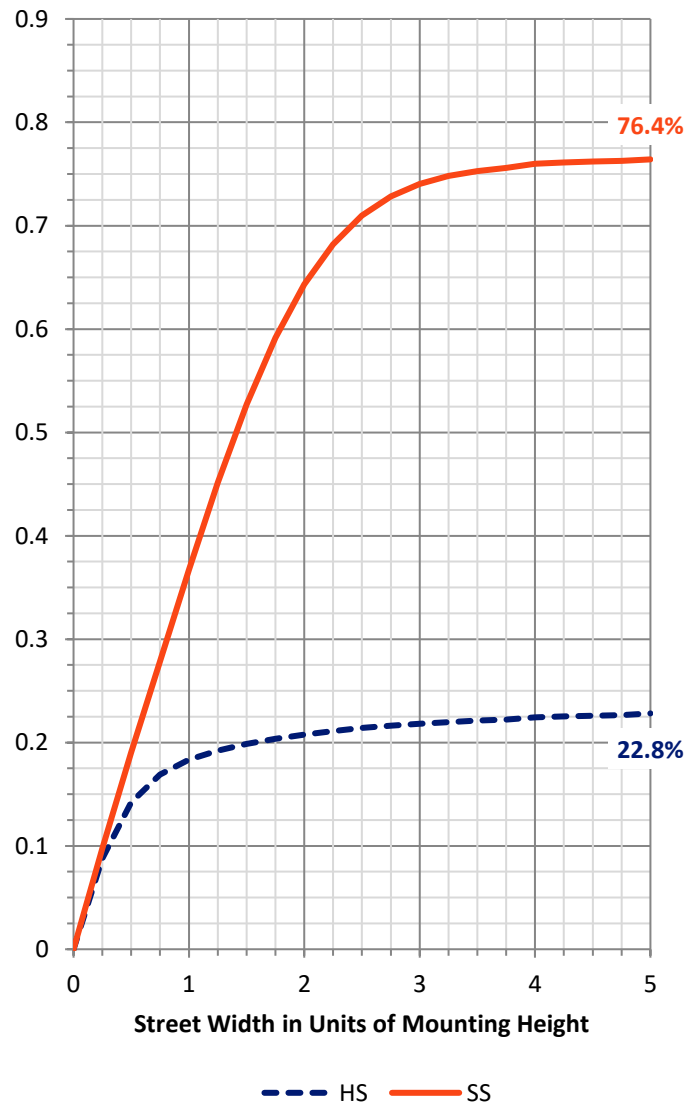
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	165.5	0.0	165.5
	% Fixture	23.5	0.0	23.5
Street Side	Lumens	537.5	0.0	537.5
	% Fixture	76.5	0.0	76.5
Total	Lumens	703.0	0.0	703.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.3	1.0
10°-20°	24.1	3.4
20°-30°	40.7	5.8
30°-40°	58.9	8.4
40°-50°	89.0	12.7
50°-60°	150.0	21.3
60°-70°	206.3	29.4
70°-80°	114.3	16.3
80°-90°	12.5	1.8
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°	703.0	100.0
0°-180°	703.0	100.0



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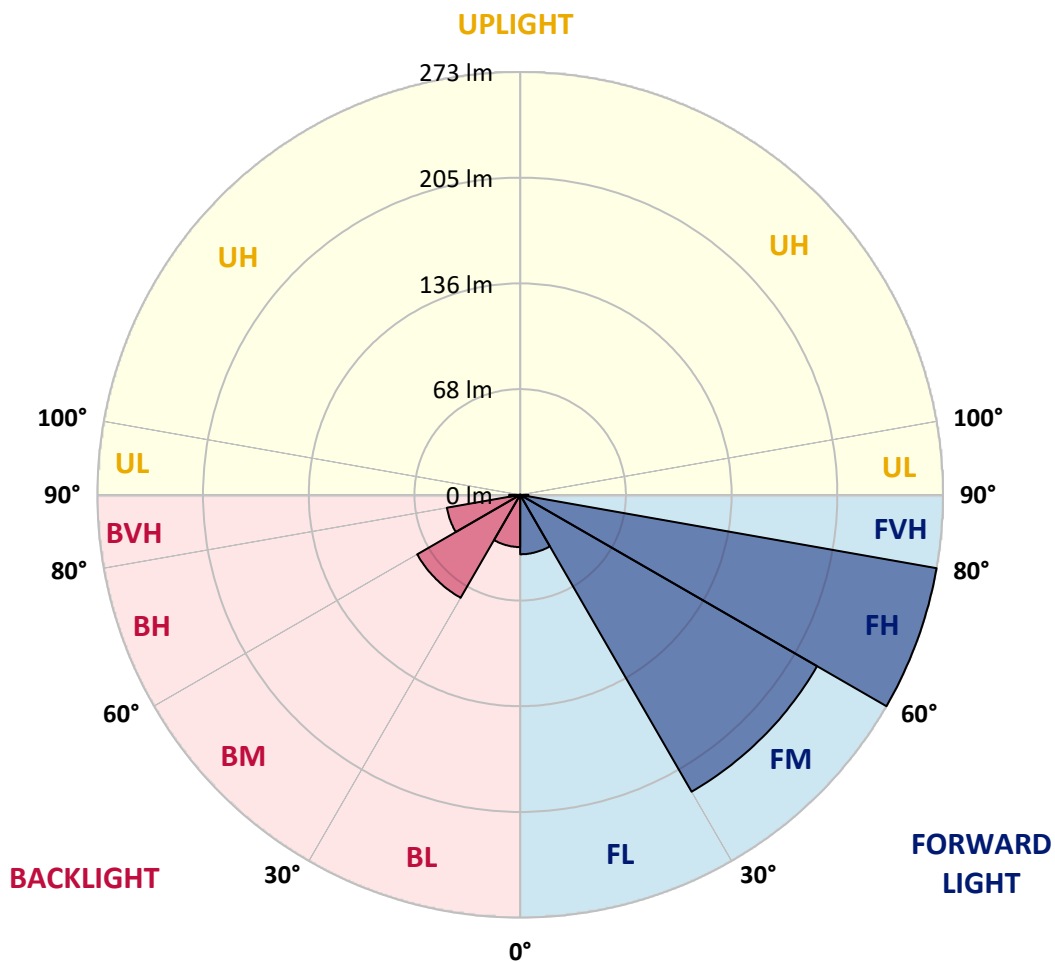
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	38.4	5.5			
FM	(30°-60°)	221.1	31.4			
FH	(60°-80°)	272.7	38.8			G0/660
FVH	(80°-90°)	5.3	0.8			G0/10
BL	(0°-30°)	33.7	4.8	B0/110		
BM	(30°-60°)	76.7	10.9	B0/220		
BH	(60°-80°)	48.0	6.8	B0/110		G0/110
BVH	(80°-90°)	7.1	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
2.5°	75.9	75.8	75.9	75.5	75.1	74.5	74.3	73.6	73.1	72.4	71.8
5°	81.4	81.7	81.6	81.2	79.6	78.4	78.4	76.9	75.3	73.8	72.4
7.5°	87.5	87.5	86.9	85.9	84.3	82.5	82.3	80.4	78.1	76.0	73.8
10°	91.9	92.1	91.2	89.8	87.8	85.9	85.7	83.4	81.3	78.6	75.9
12.5°	95.0	95.0	94.2	92.9	90.5	88.7	88.5	86.4	84.1	81.4	78.3
15°	96.6	96.4	95.7	94.3	92.2	90.7	90.4	88.6	86.7	83.9	80.7
17.5°	96.3	96.3	95.7	94.3	92.8	91.6	91.4	90.1	88.7	86.0	82.7
20°	95.0	94.9	94.7	93.6	92.6	92.1	91.9	91.3	90.4	88.1	85.0
22.5°	93.8	93.7	93.4	92.7	92.3	92.6	92.6	92.5	92.4	90.6	87.6
25°	94.5	94.4	93.8	92.8	92.7	94.1	94.2	94.5	94.7	93.2	90.1
27.5°	99.4	99.1	97.4	94.8	93.9	95.7	95.9	96.8	96.6	95.0	92.3
30°	109.0	109.1	105.3	99.7	96.7	97.5	97.6	98.6	98.3	97.0	94.8
32.5°	123.5	123.5	117.3	108.8	101.2	99.6	99.3	100.2	101.4	99.7	97.5
35°	141.9	141.4	133.9	120.8	108.9	103.2	103.0	102.6	104.7	103.1	99.9
37.5°	160.4	158.6	151.3	136.9	119.7	110.2	109.4	108.2	109.4	106.0	103.2
40°	175.3	175.0	169.0	154.4	132.5	118.7	118.1	112.8	113.6	110.9	109.8
42.5°	191.7	191.9	187.9	173.2	147.8	130.2	128.6	120.4	122.7	121.7	121.2
45°	209.7	209.5	206.5	191.1	166.5	146.2	144.2	134.1	138.8	138.2	141.0
47.5°	223.5	224.6	222.9	212.0	188.7	165.6	164.1	151.8	158.9	163.7	169.0
50°	242.3	242.2	237.6	233.1	214.5	190.4	188.9	175.2	185.4	192.4	202.1
52.5°	265.5	264.7	255.2	253.6	245.8	217.5	216.2	201.9	216.5	222.6	242.3
55°	280.1	280.0	275.1	277.9	278.1	247.6	246.0	233.4	249.8	256.8	286.6
57.5°	292.3	292.4	296.5	306.3	312.9	284.3	283.7	268.2	284.9	294.7	329.9
60°	301.7	303.7	315.2	337.6	348.6	331.1	328.5	312.1	323.3	327.2	363.0
62.5°	297.9	300.5	323.1	356.1	384.4	380.7	379.8	356.1	356.0	354.0	387.7
65°	267.9	273.5	309.1	355.4	407.9	431.0	429.7	397.6	386.4	376.4	395.1
67.5°	219.3	220.5	263.3	328.2	407.7	462.7	461.3	427.7	405.3	380.8	373.4
69°	178.5	182.9	222.6	293.8	393.4	469.1	469.1	436.1	404.6	370.3	341.6
70°	154.4	154.6	192.9	266.4	373.8	465.3	466.2	436.1	398.9	356.6	313.4
72.5°	72.4	76.9	101.0	173.9	301.9	427.7	429.9	407.3	365.8	307.2	235.2
75°	21.7	22.5	33.7	82.4	173.0	329.5	334.4	338.9	297.9	226.2	144.8
77.5°	12.9	12.8	16.3	28.0	80.1	195.4	197.6	216.8	193.3	125.7	65.8
80°	6.3	6.5	8.7	13.6	30.0	71.0	78.1	101.3	85.6	49.2	24.1
82.5°	2.1	2.3	3.6	5.5	12.7	22.9	25.3	31.8	27.4	17.9	10.3
85°	0.0	0.0	0.1	0.2	0.7	1.7	1.7	3.8	5.7	6.3	3.4
87.5°	0.0	0.0	0.1	0.1	0.2	0.2	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°	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4
2.5°	71.5	71.3	70.9	70.5	70.3	69.8	69.9	69.7	69.6	69.6	69.7
5°	71.7	71.4	70.8	70.4	70.0	69.8	70.3	70.5	70.7	70.7	70.8
7.5°	72.9	72.3	71.6	71.1	71.2	71.5	72.3	72.9	73.2	73.4	73.6
10°	74.9	74.2	73.2	73.1	73.3	74.1	75.2	76.1	76.9	77.4	77.4
12.5°	77.0	76.1	75.3	75.5	76.4	77.6	78.7	79.7	80.4	80.9	81.0
15°	79.3	78.4	77.6	78.1	79.6	81.0	81.9	82.3	82.6	83.1	83.2
17.5°	81.4	80.6	79.9	81.2	82.4	83.5	83.8	83.6	83.2	83.5	83.7
20°	83.5	82.8	82.4	83.8	84.7	84.8	84.0	83.1	82.1	82.1	82.2
22.5°	86.2	85.3	85.1	85.8	85.5	84.3	82.3	81.0	79.6	79.4	79.7
25°	88.8	87.9	87.8	87.3	84.7	81.6	79.0	77.4	76.3	76.4	77.0
27.5°	91.4	90.8	90.9	88.2	82.4	77.8	74.2	72.9	73.2	73.4	74.0
30°	94.0	94.0	94.4	88.2	79.3	72.3	68.9	68.8	69.6	70.2	70.9
32.5°	97.0	97.9	97.2	87.1	75.0	66.7	64.0	64.2	65.1	66.1	66.7
35°	99.9	102.0	100.0	84.6	69.1	61.6	59.4	59.1	59.8	60.7	61.0
37.5°	104.5	107.9	102.4	80.8	63.0	57.1	54.9	54.1	53.4	54.1	54.0
40°	112.5	116.6	104.2	74.3	57.1	52.9	50.6	49.1	47.4	45.9	45.9
42.5°	125.3	128.0	105.2	66.4	51.2	48.7	46.4	44.2	41.6	38.9	38.9
45°	146.2	146.8	105.6	58.0	45.8	44.5	42.1	40.0	36.6	33.9	33.3
47.5°	174.1	171.5	106.6	49.9	41.1	40.8	38.8	36.4	32.7	30.2	29.9
50°	211.6	200.4	111.0	43.4	37.3	37.6	36.1	33.3	29.8	28.0	27.6
52.5°	253.7	236.9	114.4	38.2	34.0	34.9	33.8	31.1	28.1	26.6	26.3
55°	299.8	271.9	113.6	34.7	31.5	32.5	32.1	29.8	27.1	25.8	25.5
57.5°	337.4	296.6	106.6	31.6	29.0	30.4	30.8	29.0	26.5	25.3	25.0
60°	365.6	310.1	92.2	29.0	27.0	28.7	29.8	28.5	26.4	25.7	25.4
62.5°	378.4	308.9	73.6	27.0	25.5	27.5	29.9	29.3	27.9	28.4	28.5
65°	371.2	293.8	55.2	25.5	24.6	27.7	31.6	31.6	29.5	30.4	30.5
67.5°	334.3	254.3	40.2	24.4	23.7	28.7	34.8	32.8	28.8	29.5	29.2
69°	299.2	227.6	34.5	23.8	23.0	29.2	36.2	33.0	28.0	28.8	28.0
70°	273.4	203.4	31.0	23.3	22.7	29.2	36.6	32.8	27.6	28.2	27.3
72.5°	194.6	141.2	25.5	22.3	21.6	27.0	35.9	31.7	26.5	25.8	24.1
75°	113.1	78.1	21.7	21.2	19.1	23.7	34.1	30.5	25.4	24.1	22.9
77.5°	47.5	34.9	18.5	19.3	16.9	21.1	31.9	29.3	24.1	22.3	21.7
80°	19.3	17.4	15.4	16.7	14.7	18.6	29.4	27.3	22.2	20.4	19.5
82.5°	10.1	9.6	11.8	13.5	12.2	17.1	27.7	25.9	20.6	18.8	17.7
85°	3.0	4.0	6.7	9.2	9.3	15.4	26.9	24.0	17.9	15.5	15.3
87.5°	0.2	0.8	2.3	4.8	6.1	11.8	21.8	19.7	14.5	12.2	12.3
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)