

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: P400744

Luminaire Tested: **ENT-SA1-730-U-T4FT-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-SA1-730-U-T4FT-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 673 lumens
Efficiency: N/A
Efficacy: 51.8 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 - 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

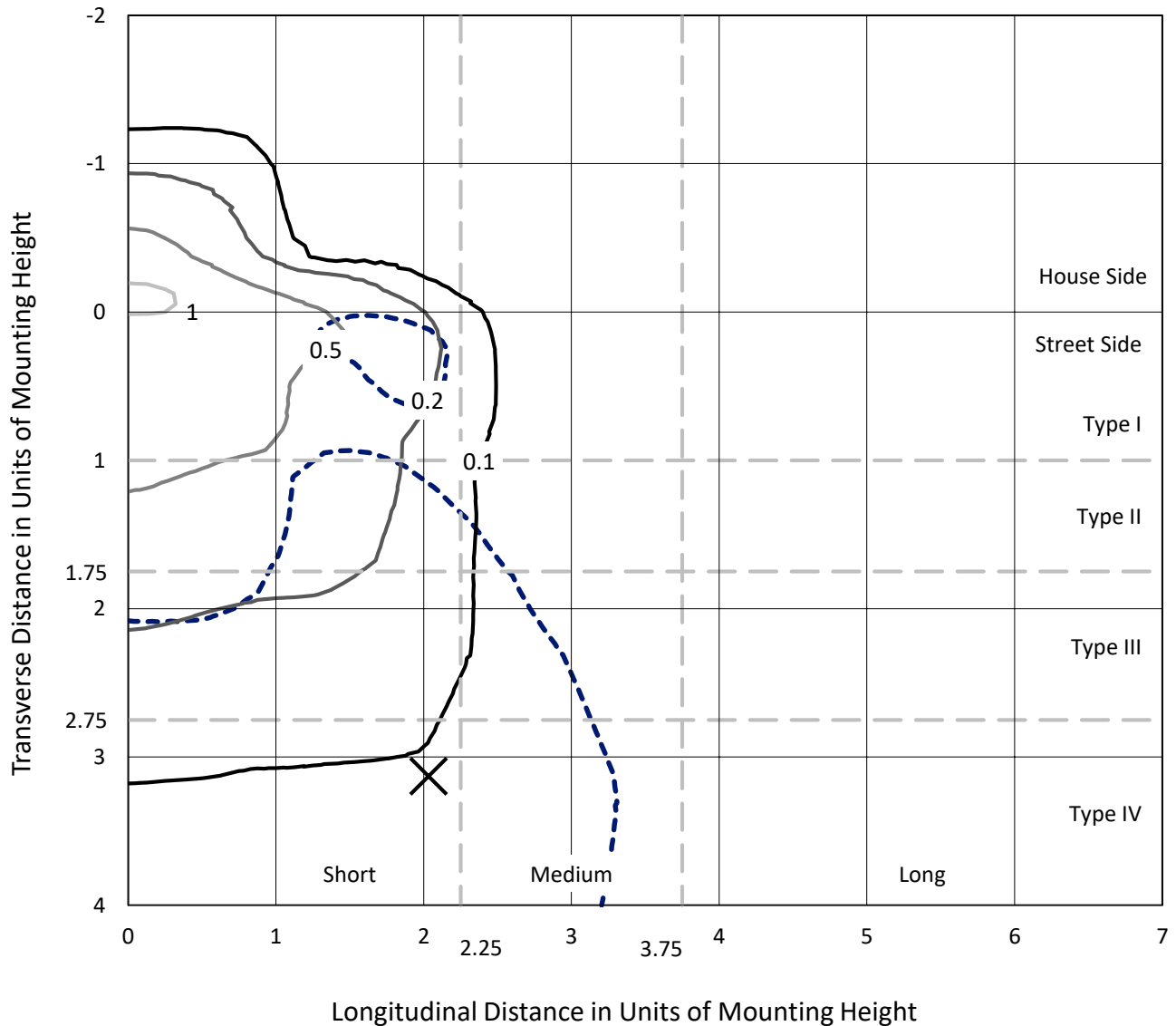


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

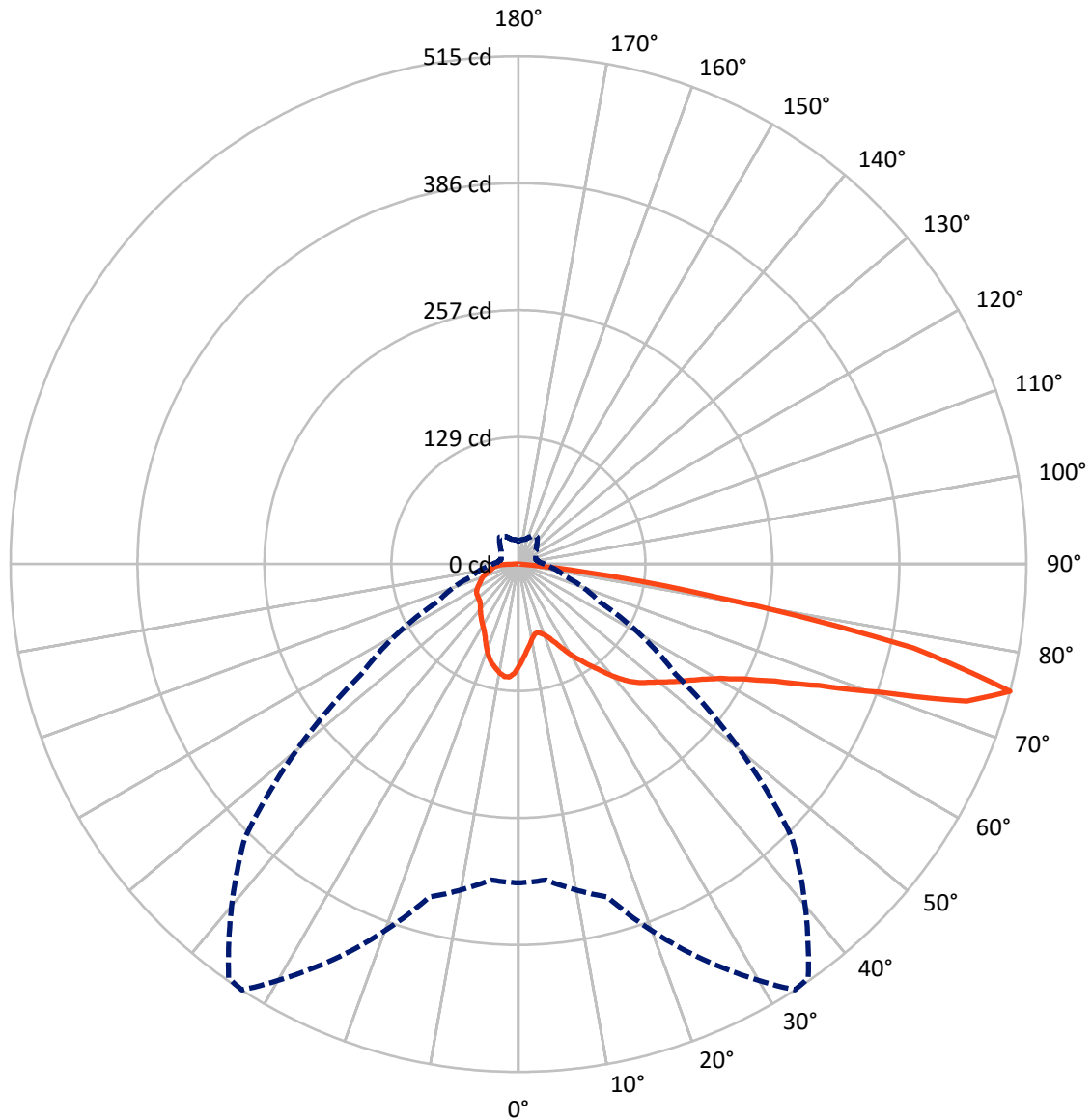


Based on 10 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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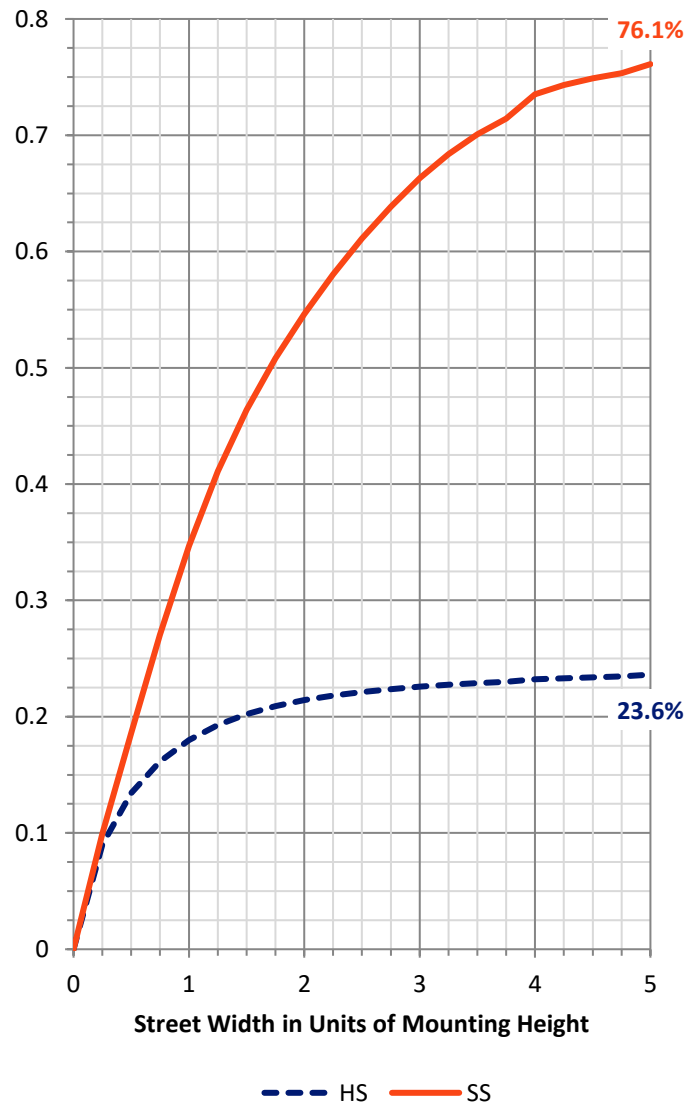
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	163.5	0.0	163.5
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	509.5	0.0	509.5
	% Fixture	75.7	0.0	75.7
Total	Lumens	673.0	0.0	673.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.6	1.4
10°-20°	27.1	4.0
20°-30°	45.0	6.7
30°-40°	67.2	10.0
40°-50°	93.9	14.0
50°-60°	125.3	18.6
60°-70°	155.4	23.1
70°-80°	134.4	20.0
80°-90°	15.0	2.2
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°	673.0	100.0
0°-180°	673.0	100.0



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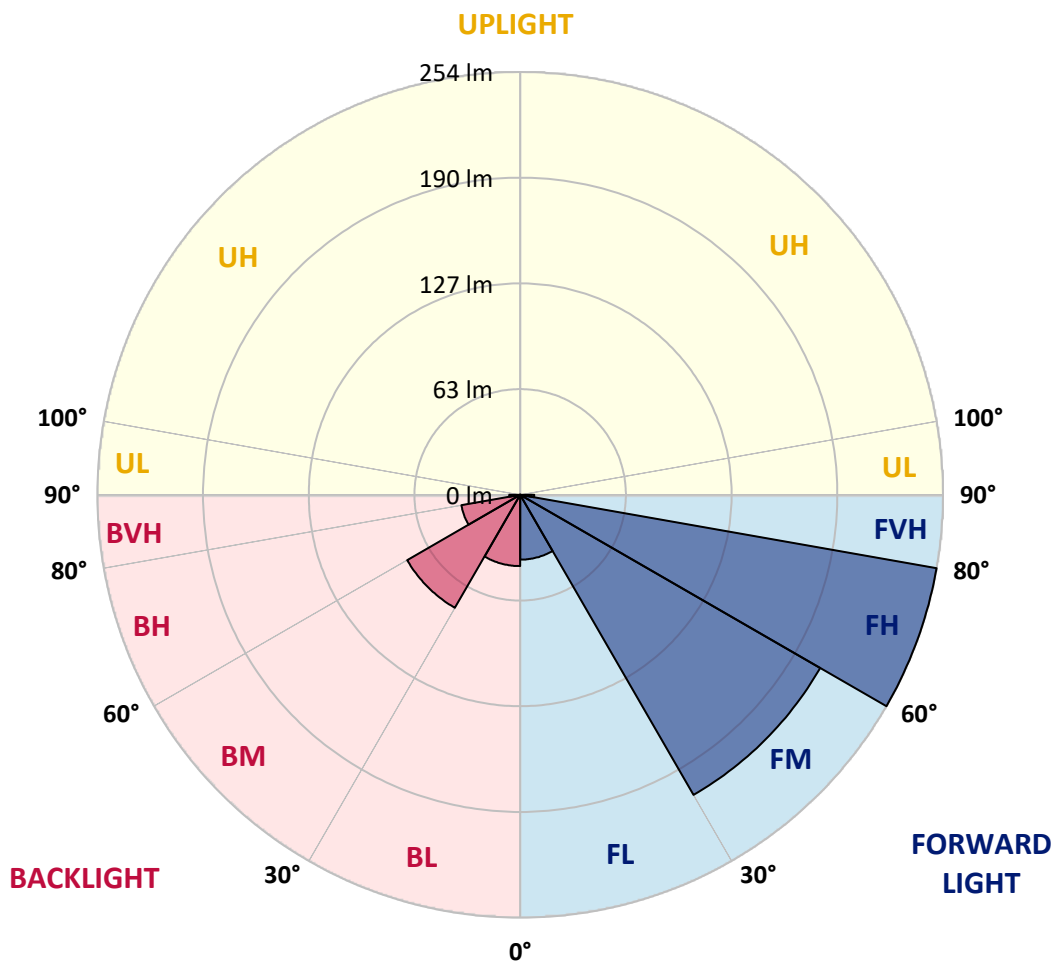
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	39.0	5.8			
FM	(30°-60°)	208.1	30.9			
FH	(60°-80°)	254.0	37.7			G0/660
FVH	(80°-90°)	8.5	1.3			G0/10
BL	(0°-30°)	42.8	6.4	B0/110		
BM	(30°-60°)	78.4	11.6	B0/220		
BH	(60°-80°)	35.8	5.3	B0/110		G0/110
BVH	(80°-90°)	6.5	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°	33°	35°	45°	55°	65°	75°	85°
0°	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1
2.5°	93.5	93.7	94.3	95.0	95.4	95.4	96.5	97.8	99.4	100.8	102.3
5°	85.7	86.0	86.5	87.4	88.5	88.7	90.9	93.2	96.1	99.2	102.2
7.5°	78.0	78.6	79.6	80.8	82.5	82.9	86.0	89.1	93.1	97.8	102.7
10°	72.1	72.5	73.0	74.7	76.8	77.5	81.6	85.5	91.0	96.8	103.3
12.5°	70.5	70.5	70.5	71.3	73.0	73.6	77.9	82.9	89.1	96.1	104.2
15°	72.8	72.7	71.6	71.0	72.0	72.5	76.2	81.1	88.1	96.3	105.9
17.5°	78.0	77.7	75.1	73.1	73.8	74.1	76.5	80.7	87.8	97.1	108.4
20°	84.8	84.1	80.1	77.1	77.0	77.2	79.0	81.9	88.3	98.5	111.1
22.5°	93.8	93.4	87.5	82.9	82.1	82.1	82.9	84.7	89.6	100.1	114.8
25°	105.4	104.3	97.2	91.0	89.2	88.7	88.6	88.6	91.9	102.5	119.4
27.5°	117.3	116.0	108.8	100.4	98.0	97.1	95.5	94.3	94.9	105.1	124.9
30°	128.0	126.2	120.1	111.4	107.8	106.4	103.5	101.0	99.4	108.7	132.2
32.5°	133.9	133.2	129.0	121.1	117.0	116.4	111.6	108.3	105.5	113.4	142.0
35°	141.8	140.9	138.2	131.7	126.8	125.3	121.7	117.8	113.3	119.7	154.4
37.5°	149.1	148.6	147.6	143.1	137.9	136.4	133.1	129.0	122.9	129.0	168.3
40°	156.5	155.9	155.5	153.9	150.2	149.2	147.6	142.8	134.6	139.2	182.0
42.5°	167.3	166.0	161.8	161.7	162.0	162.8	162.9	157.6	147.4	151.9	194.0
45°	181.4	177.8	168.4	168.1	171.6	173.7	178.8	174.3	160.7	164.9	207.3
47.5°	188.6	184.9	175.2	174.6	179.2	182.3	194.9	190.5	174.5	179.5	221.2
50°	192.1	189.7	181.2	183.1	187.8	190.8	210.1	206.6	188.8	195.3	238.7
52.5°	197.0	193.0	187.0	191.0	198.0	201.1	223.8	223.2	200.9	212.4	257.9
55°	195.3	193.2	194.3	199.7	208.4	213.0	237.6	237.6	213.1	230.8	276.9
57.5°	196.7	195.3	204.3	209.1	220.2	226.8	254.2	249.8	223.5	246.2	289.7
60°	208.5	204.5	211.6	221.1	235.4	241.8	273.2	262.6	232.0	259.5	292.0
62.5°	229.5	226.3	227.0	237.9	256.4	263.8	292.0	273.9	237.7	265.1	283.4
65°	264.3	262.8	254.2	260.8	286.3	293.0	315.5	283.7	236.1	260.9	260.7
67.5°	311.1	305.1	293.5	299.4	328.8	335.6	343.7	287.4	225.7	235.8	209.5
70°	349.8	344.8	339.5	355.0	388.8	392.5	373.2	283.9	200.5	184.6	140.5
72.5°	374.5	370.9	375.8	421.4	475.4	468.5	402.3	259.4	156.4	113.0	70.2
75°	323.3	321.6	349.5	442.0	514.9	512.3	392.2	194.2	90.7	49.8	32.0
77.5°	162.6	181.1	210.5	313.6	409.7	410.2	285.8	93.3	38.2	27.9	22.0
80°	45.8	46.4	70.2	129.3	204.5	217.9	108.1	31.7	21.8	20.8	16.4
82.5°	10.9	10.1	18.0	38.3	68.6	71.4	32.5	11.4	12.2	13.0	10.1
85°	0.1	0.1	0.1	0.1	0.1	0.2	1.2	1.2	2.9	3.7	2.9
87.5°	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	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°	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1	103.1
2.5°	103.0	104.0	105.6	107.0	108.2	109.1	110.5	110.7	111.1	111.3	111.5
5°	103.9	105.8	108.8	111.4	113.2	113.7	114.9	114.8	114.9	114.9	114.8
7.5°	105.1	107.7	111.9	114.8	115.8	115.5	115.2	114.1	113.2	112.8	112.3
10°	106.6	109.6	114.5	116.6	116.1	114.5	112.6	110.6	109.0	108.2	108.0
12.5°	108.1	112.0	116.6	117.2	115.2	112.3	109.1	106.9	104.8	103.7	103.7
15°	110.6	114.9	118.3	117.1	113.5	109.8	105.4	102.4	100.0	98.5	98.4
17.5°	113.6	118.2	120.1	116.6	111.4	106.2	100.9	97.0	93.9	92.4	91.5
20°	117.3	121.6	121.0	115.0	108.3	101.9	95.3	90.6	87.4	85.8	85.5
22.5°	121.5	125.1	121.3	112.4	104.1	95.9	88.7	84.0	81.9	80.7	80.8
25°	126.6	129.4	121.4	109.3	98.1	88.0	81.7	79.5	79.2	78.7	78.9
27.5°	133.0	133.9	121.0	105.1	90.4	79.7	76.0	76.9	77.7	77.4	77.6
30°	140.6	139.3	120.1	99.0	80.9	72.1	72.3	74.3	75.4	75.1	75.2
32.5°	149.5	144.7	118.4	91.6	71.9	67.6	69.1	71.1	72.2	72.2	72.3
35°	159.5	151.2	115.1	82.0	65.7	64.8	66.2	67.7	68.4	68.0	68.3
37.5°	170.0	156.8	109.8	71.3	61.0	62.6	63.4	63.8	63.7	63.1	62.8
40°	179.8	161.2	100.3	60.8	57.1	60.3	60.7	59.6	58.3	57.2	56.5
42.5°	187.3	163.5	87.1	53.1	53.4	57.7	58.0	55.8	53.3	51.6	51.2
45°	195.0	164.3	74.0	46.9	49.4	55.1	55.9	52.9	49.5	47.5	47.2
47.5°	203.7	166.3	61.2	42.6	46.0	53.3	54.6	50.9	47.1	44.1	43.6
50°	215.5	170.1	51.5	39.3	43.6	52.4	54.2	49.3	44.5	41.2	40.8
52.5°	230.5	175.7	42.5	36.7	41.7	51.0	53.6	47.7	42.6	38.6	38.0
55°	243.4	177.8	36.7	34.5	39.7	49.3	53.1	47.1	40.5	36.0	35.3
57.5°	249.3	171.8	32.6	32.3	37.6	47.2	52.1	45.1	38.2	34.7	34.1
60°	246.6	156.9	29.5	30.3	35.2	44.5	49.5	43.1	36.6	33.7	33.1
62.5°	234.6	139.7	27.2	28.4	32.5	41.1	46.5	41.3	35.2	32.6	31.8
65°	213.5	120.8	25.5	26.7	30.1	37.8	44.1	39.2	33.6	31.0	30.3
67.5°	174.3	96.1	23.7	25.0	28.1	35.1	41.9	37.5	31.8	30.1	29.5
70°	115.3	64.7	22.0	23.3	26.1	32.5	39.6	35.7	30.1	29.0	28.2
72.5°	53.0	34.8	20.2	21.5	23.8	29.6	36.7	33.0	27.8	27.1	25.9
75°	26.2	21.4	18.0	19.2	21.0	26.1	33.3	30.7	25.7	24.5	23.1
77.5°	19.1	16.0	15.5	16.7	18.2	23.1	29.7	28.3	23.6	21.9	21.1
80°	14.2	12.4	13.0	14.2	15.6	20.9	27.8	26.5	21.8	20.1	19.5
82.5°	8.7	8.3	10.0	11.4	13.1	19.2	26.5	24.2	19.6	18.0	17.3
85°	2.5	3.0	5.1	7.4	9.3	15.5	24.7	21.2	16.5	13.8	13.3
87.5°	0.0	0.3	1.6	3.4	5.5	10.3	19.0	16.6	12.6	10.2	9.8
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)