

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: P400762

Luminaire Tested: **ENT-SA1-735-U-T4FT-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400762
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-SA1-735-U-T4FT-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K 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: 694 lumens
Efficiency: N/A
Efficacy: 53.4 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

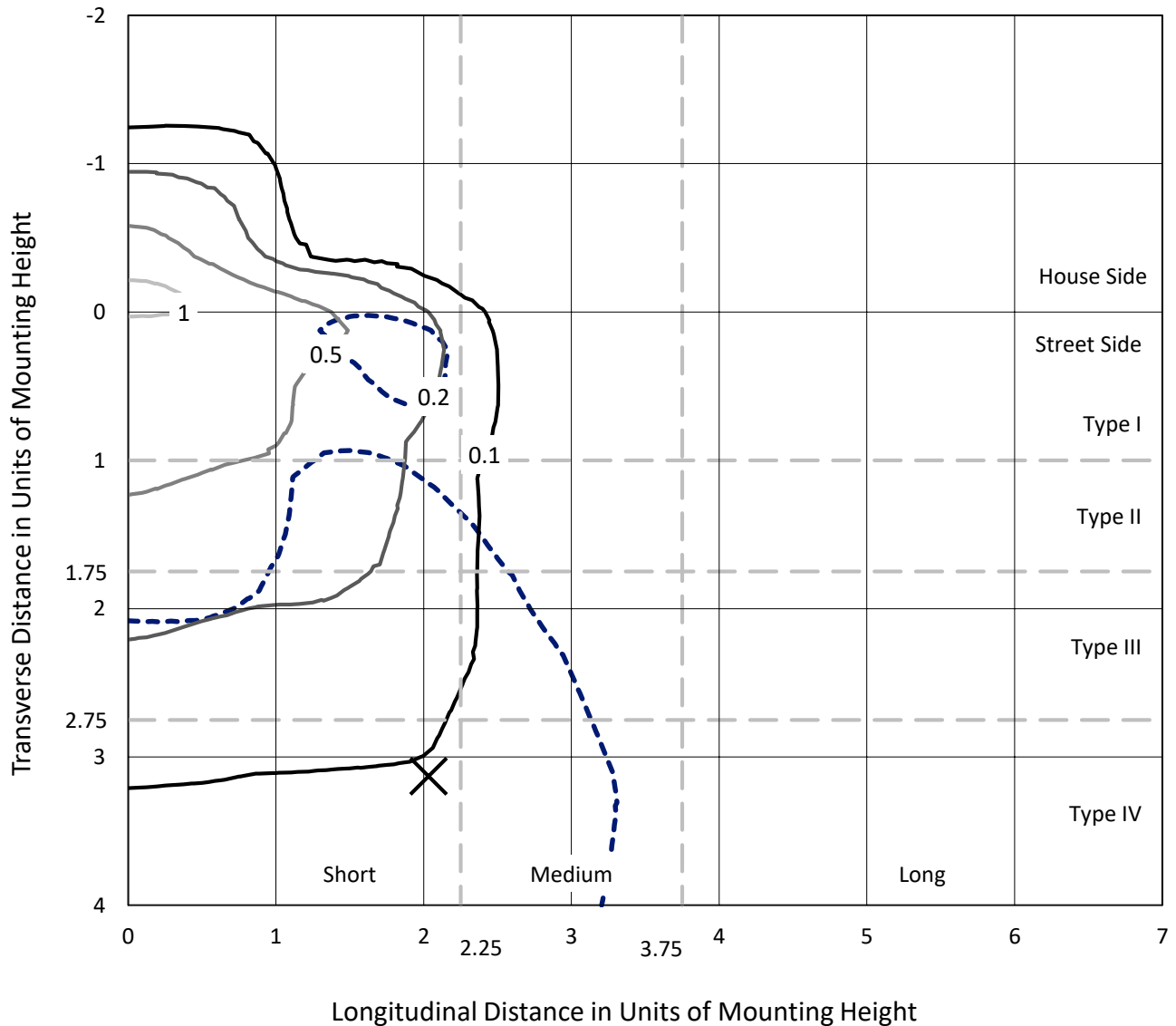


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

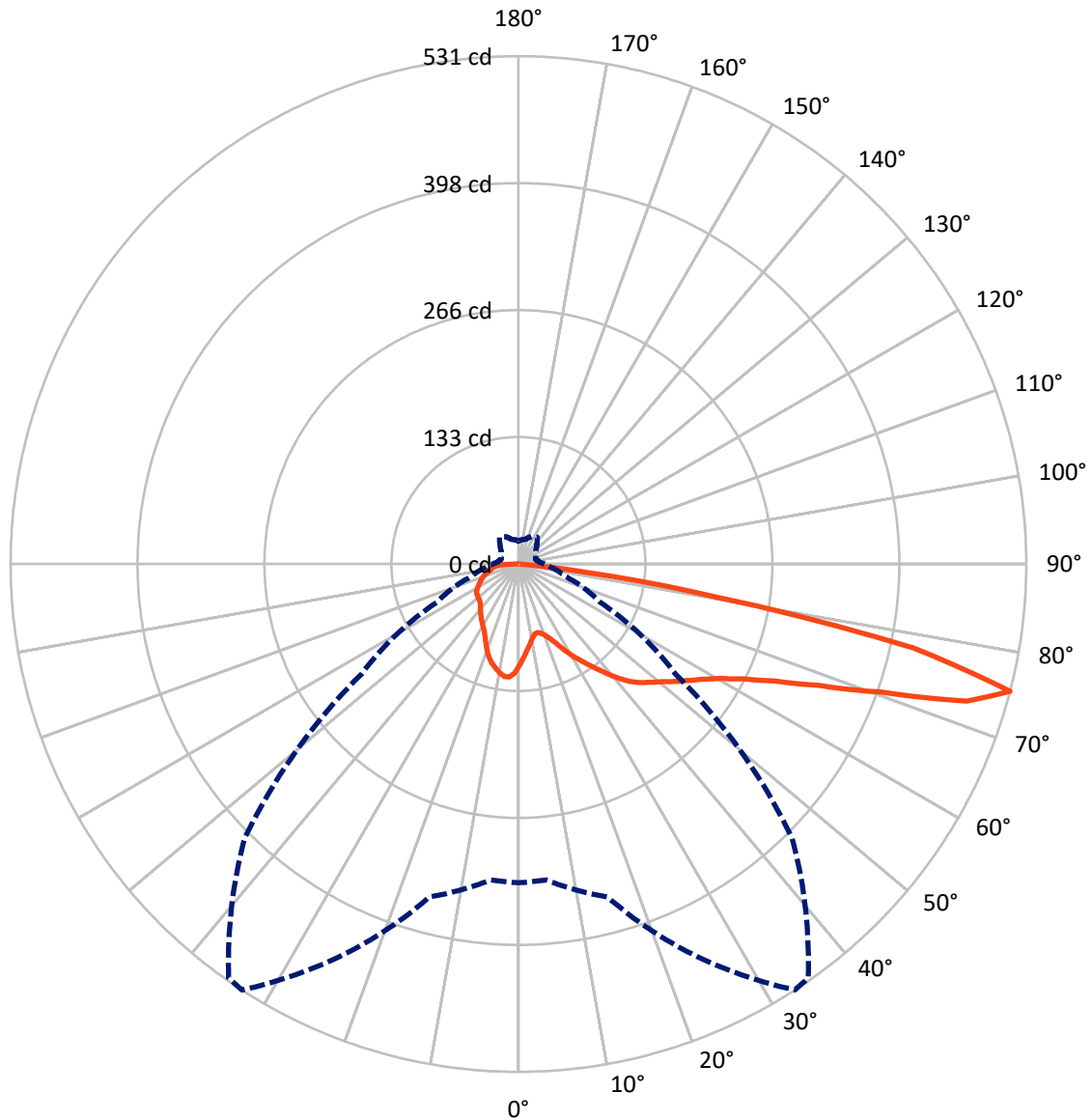


Based on 10 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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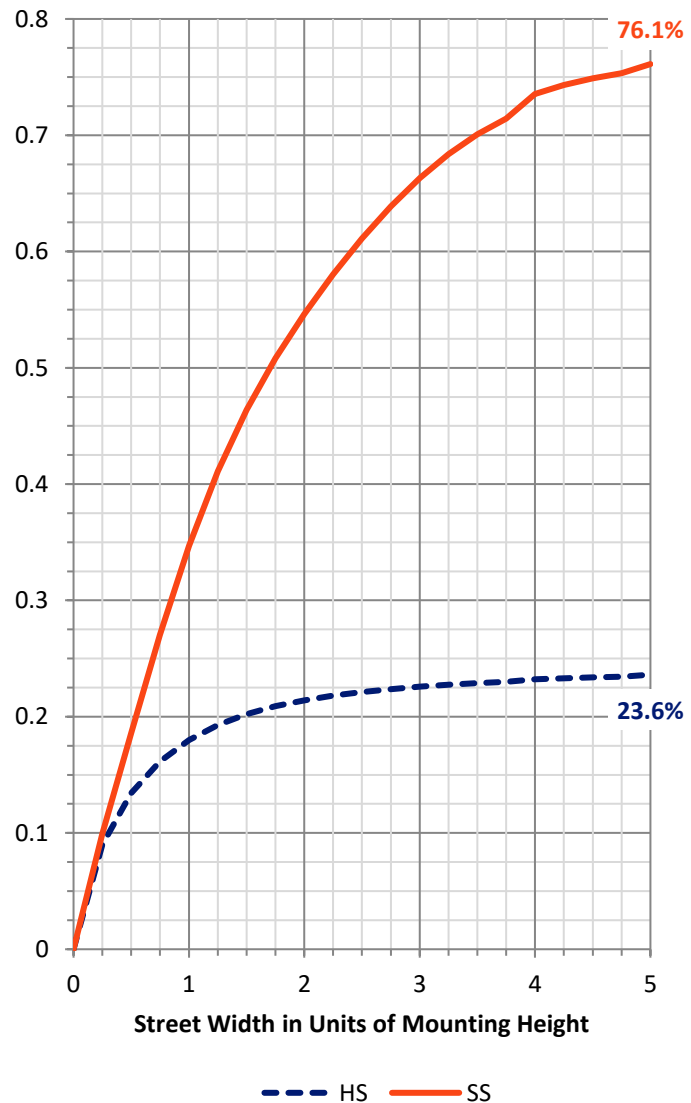
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	168.6	0.0	168.6
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	525.4	0.0	525.4
	% Fixture	75.7	0.0	75.7
Total	Lumens	694.0	0.0	694.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.9	1.4
10°-20°	27.9	4.0
20°-30°	46.5	6.7
30°-40°	69.3	10.0
40°-50°	96.8	14.0
50°-60°	129.2	18.6
60°-70°	160.2	23.1
70°-80°	138.5	20.0
80°-90°	15.5	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°	694.0	100.0
0°-180°	694.0	100.0



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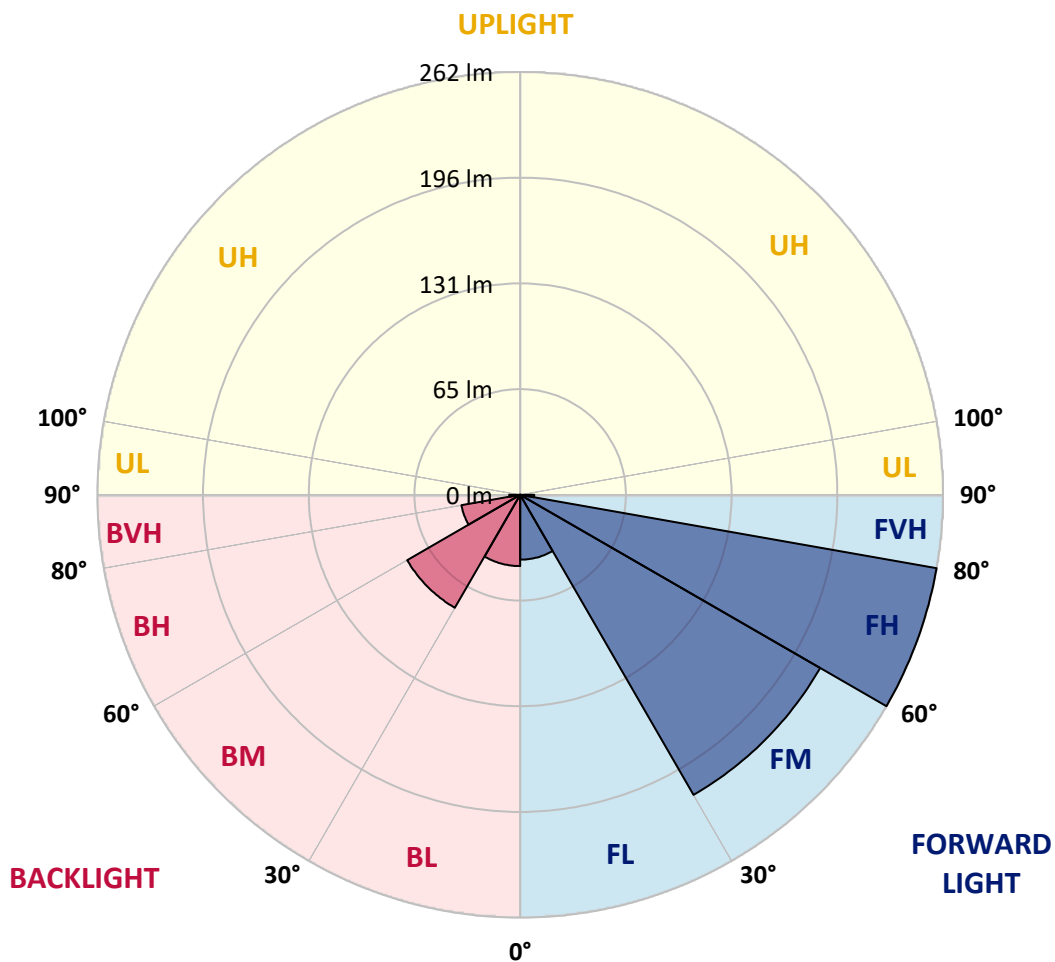
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	40.2	5.8			
FM (30°-60°)	214.6	30.9			
FH (60°-80°)	261.9	37.7			G0/660
FVH (80°-90°)	8.8	1.3			G0/10
BL (0°-30°)	44.2	6.4	B0/110		
BM (30°-60°)	80.8	11.6	B0/220		
BH (60°-80°)	36.9	5.3	B0/110		G0/110
BVH (80°-90°)	6.7	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°	106.3	106.3	106.3	106.3	106.3	106.3	106.3	106.3	106.3	106.3	106.3
2.5°	96.4	96.7	97.3	98.0	98.4	98.4	99.5	100.9	102.5	104.0	105.5
5°	88.4	88.7	89.2	90.2	91.3	91.5	93.8	96.1	99.1	102.3	105.4
7.5°	80.5	81.1	82.1	83.4	85.1	85.5	88.7	91.9	96.0	100.9	105.9
10°	74.4	74.8	75.3	77.1	79.2	80.0	84.2	88.2	93.9	99.8	106.5
12.5°	72.7	72.7	72.7	73.6	75.3	75.9	80.4	85.5	91.9	99.1	107.5
15°	75.1	75.0	73.9	73.3	74.3	74.8	78.6	83.7	90.9	99.3	109.2
17.5°	80.5	80.2	77.5	75.4	76.1	76.5	78.9	83.3	90.6	100.2	111.8
20°	87.5	86.8	82.6	79.6	79.4	79.7	81.5	84.5	91.1	101.6	114.6
22.5°	96.8	96.3	90.3	85.5	84.7	84.7	85.5	87.4	92.4	103.3	118.4
25°	108.7	107.6	100.3	93.9	92.0	91.5	91.4	91.4	94.8	105.7	123.1
27.5°	121.0	119.6	112.2	103.6	101.1	100.2	98.5	97.3	97.9	108.4	128.8
30°	132.0	130.1	123.9	114.9	111.2	109.7	106.8	104.2	102.5	112.1	136.3
32.5°	138.1	137.4	133.0	124.9	120.7	120.0	115.1	111.7	108.8	117.0	146.4
35°	146.2	145.3	142.5	135.8	130.8	129.2	125.5	121.5	116.9	123.4	159.2
37.5°	153.7	153.2	152.2	147.6	142.2	140.7	137.3	133.0	126.7	133.0	173.5
40°	161.4	160.7	160.3	158.7	154.9	153.8	152.2	147.3	138.8	143.5	187.6
42.5°	172.5	171.2	166.8	166.7	167.0	167.9	168.0	162.5	152.0	156.6	200.0
45°	187.0	183.3	173.6	173.3	176.9	179.1	184.3	179.7	165.7	170.0	213.8
47.5°	194.4	190.6	180.6	180.0	184.8	188.0	200.9	196.4	179.9	185.1	228.1
50°	198.1	195.6	186.8	188.8	193.6	196.7	216.7	213.1	194.7	201.3	246.2
52.5°	203.1	199.0	192.8	196.9	204.1	207.3	230.8	230.2	207.1	219.1	266.0
55°	201.3	199.2	200.3	205.9	215.0	219.7	245.0	245.0	219.8	238.0	285.5
57.5°	202.8	201.3	210.7	215.7	227.1	233.9	262.1	257.6	230.5	253.9	298.7
60°	215.1	210.9	218.2	228.0	242.8	249.4	281.7	270.8	239.3	267.6	301.1
62.5°	236.7	233.4	234.1	245.3	264.4	272.0	301.1	282.4	245.1	273.4	292.2
65°	272.6	271.0	262.1	268.9	295.2	302.1	325.3	292.5	243.5	269.0	268.8
67.5°	320.8	314.6	302.6	308.7	339.0	346.0	354.5	296.4	232.8	243.2	216.1
70°	360.8	355.6	350.1	366.1	400.9	404.8	384.9	292.7	206.7	190.3	144.9
72.5°	386.2	382.5	387.5	434.5	490.3	483.1	414.9	267.5	161.3	116.5	72.4
75°	333.3	331.6	360.4	455.8	531.0	528.3	404.4	200.2	93.6	51.3	33.0
77.5°	167.7	186.7	217.1	323.4	422.5	423.0	294.7	96.2	39.4	28.7	22.7
80°	47.2	47.8	72.4	133.3	210.9	224.7	111.5	32.7	22.5	21.4	16.9
82.5°	11.2	10.4	18.5	39.5	70.8	73.7	33.5	11.7	12.6	13.4	10.4
85°	0.1	0.1	0.1	0.1	0.1	0.2	1.2	1.2	3.0	3.8	3.0
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°	106.3	106.3	106.3	106.3	106.3	106.3	106.3	106.3	106.3	106.3	106.3
2.5°	106.2	107.3	108.9	110.4	111.6	112.5	114.0	114.2	114.6	114.8	115.0
5°	107.2	109.1	112.2	114.9	116.7	117.3	118.5	118.4	118.5	118.5	118.4
7.5°	108.4	111.1	115.4	118.4	119.4	119.1	118.8	117.7	116.7	116.3	115.8
10°	109.9	113.0	118.1	120.3	119.7	118.1	116.1	114.1	112.4	111.6	111.4
12.5°	111.5	115.5	120.3	120.9	118.8	115.8	112.5	110.3	108.1	107.0	107.0
15°	114.1	118.5	122.0	120.8	117.1	113.2	108.7	105.6	103.1	101.6	101.5
17.5°	117.2	121.9	123.9	120.3	114.9	109.5	104.1	100.1	96.9	95.3	94.4
20°	121.0	125.4	124.8	118.6	111.7	105.1	98.3	93.5	90.2	88.5	88.2
22.5°	125.3	129.0	125.1	115.9	107.4	98.9	91.5	86.7	84.5	83.3	83.4
25°	130.6	133.4	125.2	112.7	101.2	90.8	84.3	82.0	81.7	81.2	81.4
27.5°	137.2	138.1	124.8	108.4	93.3	82.2	78.4	79.3	80.2	79.9	80.1
30°	145.0	143.6	123.9	102.1	83.5	74.4	74.6	76.7	77.8	77.5	77.6
32.5°	154.2	149.2	122.1	94.5	74.2	69.7	71.3	73.4	74.5	74.5	74.6
35°	164.5	155.9	118.7	84.6	67.7	66.8	68.2	69.9	70.6	70.2	70.5
37.5°	175.3	161.7	113.2	73.6	62.9	64.5	65.3	65.7	65.6	65.0	64.7
40°	185.4	166.2	103.5	62.7	58.8	62.1	62.5	61.4	60.1	58.9	58.2
42.5°	193.1	168.6	89.9	54.7	55.0	59.5	59.8	57.5	54.9	53.2	52.8
45°	201.0	169.4	76.4	48.3	50.9	56.8	57.6	54.5	51.0	48.9	48.6
47.5°	210.1	171.5	63.1	43.9	47.4	54.9	56.3	52.4	48.5	45.4	44.9
50°	222.3	175.4	53.1	40.5	44.9	54.0	55.8	50.8	45.9	42.5	42.0
52.5°	237.7	181.2	43.8	37.8	43.0	52.6	55.2	49.2	43.9	39.8	39.2
55°	251.0	183.3	37.8	35.6	40.9	50.8	54.7	48.5	41.7	37.1	36.4
57.5°	257.1	177.1	33.6	33.3	38.7	48.6	53.7	46.5	39.4	35.8	35.1
60°	254.3	161.8	30.4	31.2	36.3	45.9	51.0	44.4	37.7	34.7	34.1
62.5°	241.9	144.1	28.0	29.3	33.5	42.4	47.9	42.6	36.3	33.6	32.8
65°	220.2	124.6	26.3	27.5	31.0	39.0	45.4	40.4	34.6	31.9	31.2
67.5°	179.7	99.1	24.4	25.8	29.0	36.2	43.2	38.6	32.8	31.0	30.4
70°	118.9	66.7	22.7	24.0	26.9	33.5	40.8	36.8	31.0	29.9	29.1
72.5°	54.6	35.9	20.8	22.2	24.5	30.5	37.8	34.0	28.6	27.9	26.7
75°	27.0	22.1	18.5	19.8	21.6	26.9	34.3	31.6	26.5	25.2	23.8
77.5°	19.7	16.5	16.0	17.2	18.8	23.8	30.6	29.2	24.3	22.6	21.7
80°	14.6	12.8	13.4	14.6	16.1	21.5	28.6	27.3	22.5	20.7	20.1
82.5°	9.0	8.6	10.3	11.7	13.5	19.8	27.3	24.9	20.2	18.5	17.8
85°	2.6	3.1	5.3	7.6	9.6	16.0	25.5	21.8	17.0	14.2	13.7
87.5°	0.0	0.3	1.6	3.5	5.7	10.6	19.6	17.1	13.0	10.5	10.1
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)