

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: P400747

Luminaire Tested: **ENC-SA1-735-U-SL2-HSS-XXB**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P400747
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENC-SA1-735-U-SL2-HSS-XXB
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K LIGHTSQUARE IN BATTERY OPERATION WITH 16 LEDS AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 586 lumens
Efficiency: N/A
Efficacy: 45.1 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

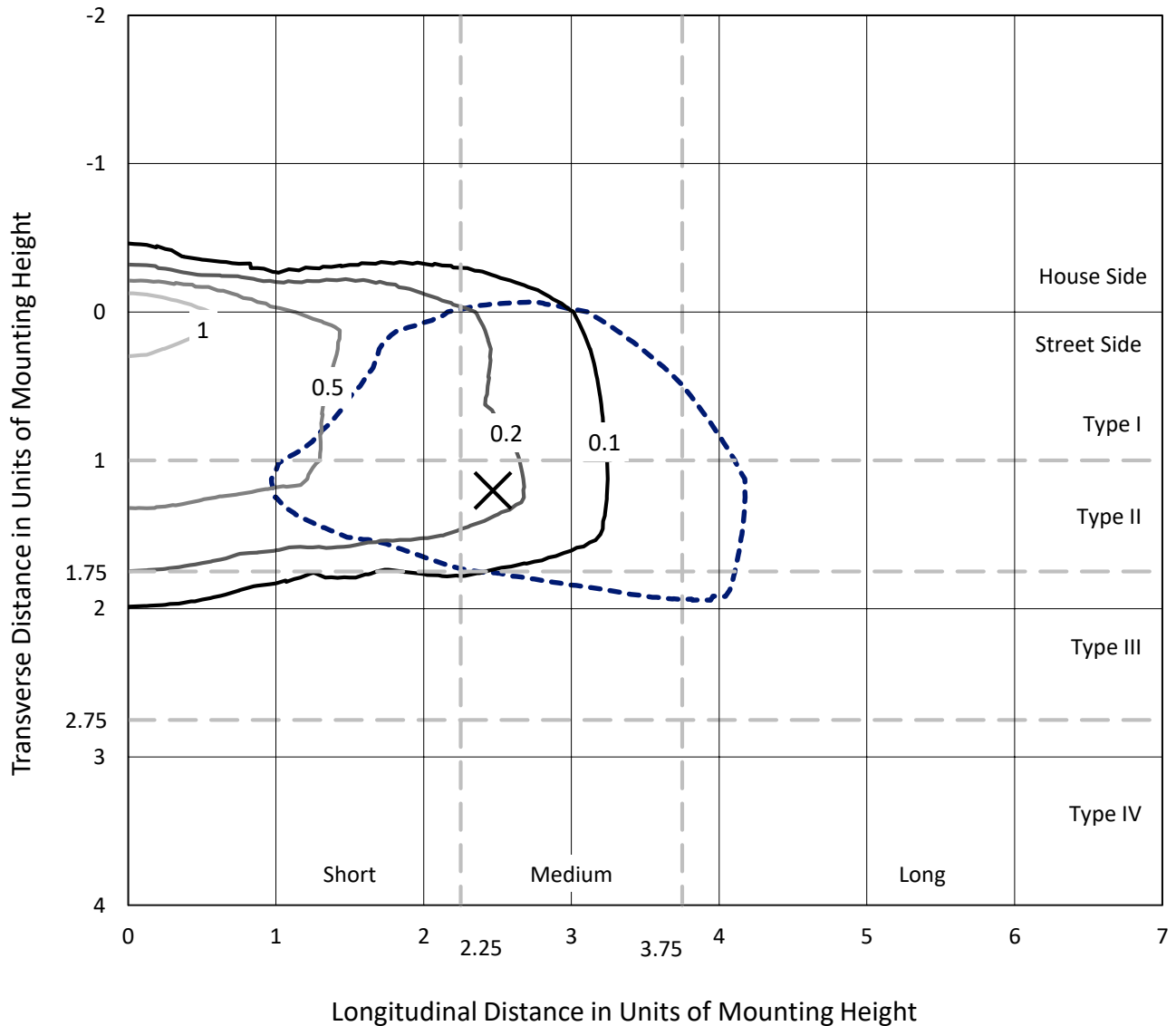
Input Watts (W): 13
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

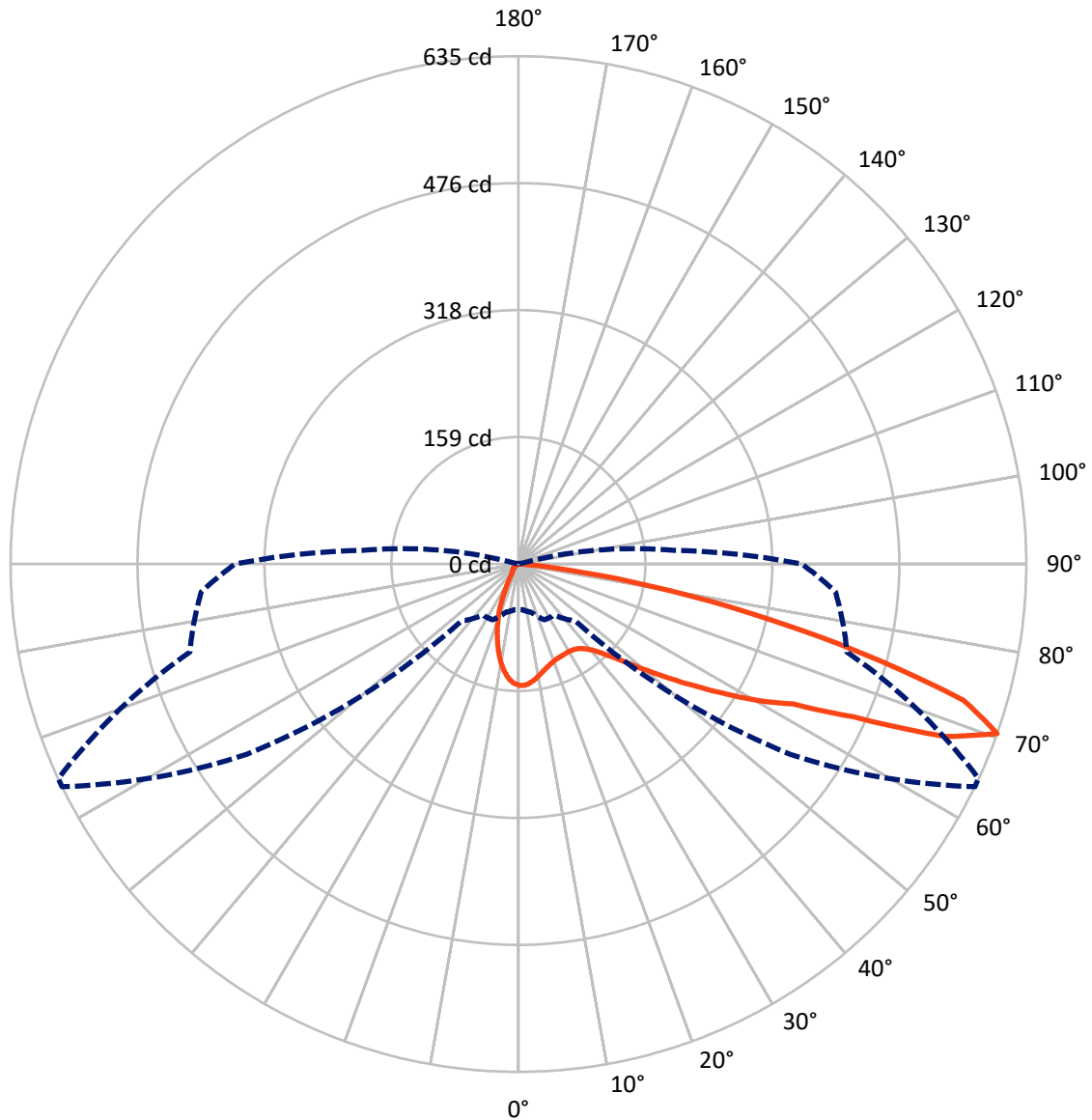
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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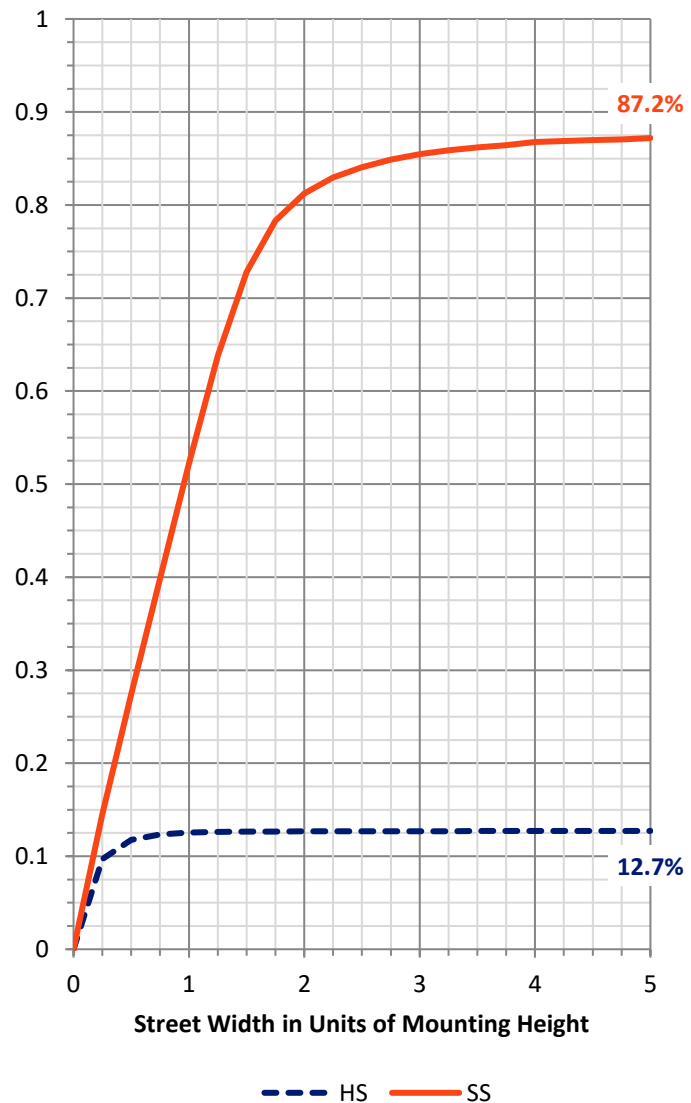
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	75.3	0.0	75.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	510.7	0.0	510.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	586.0	0.0	586.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.8	2.2
10°-20°	28.4	4.8
20°-30°	39.1	6.7
30°-40°	53.8	9.2
40°-50°	80.2	13.7
50°-60°	126.7	21.6
60°-70°	143.5	24.5
70°-80°	94.2	16.1
80°-90°	7.4	1.3
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°	586.0	100.0
0°-180°	586.0	100.0



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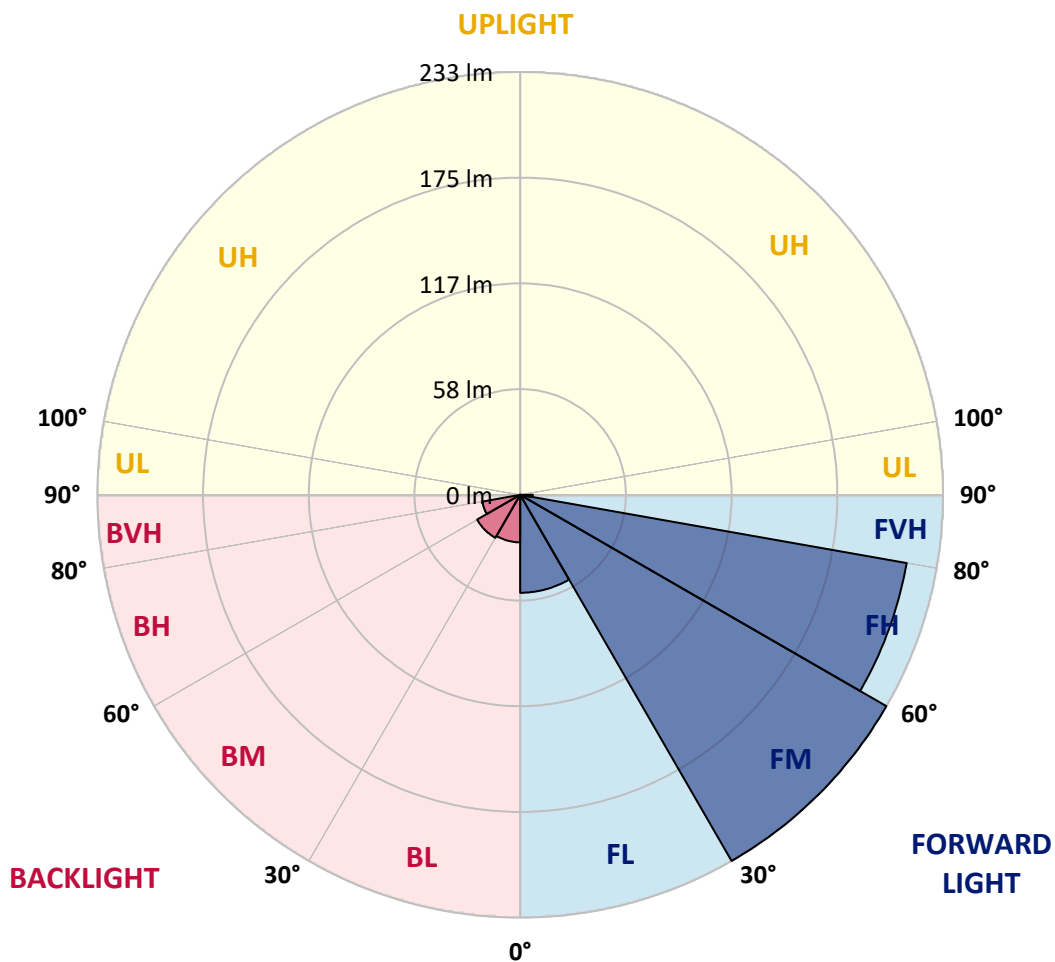
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	54.0	9.2			
FM	(30°-60°)	233.2	39.8			
FH	(60°-80°)	216.5	36.9			G0/660
FVH	(80°-90°)	7.0	1.2			G0/10
BL	(0°-30°)	26.2	4.5	B0/110		
BM	(30°-60°)	27.4	4.7	B0/220		
BH	(60°-80°)	21.2	3.6	B0/110		G0/110
BVH	(80°-90°)	0.4	0.1			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°	64°	65°	75°	85°
0°	151.7	151.7	151.7	151.7	151.7	151.7	151.7	151.7	151.7	151.7	151.7
2.5°	147.5	147.5	148.2	148.9	149.3	150.5	151.3	151.9	151.9	152.3	151.6
5°	137.7	137.7	138.3	140.0	141.9	144.3	147.0	149.6	150.1	152.1	152.0
7.5°	128.6	129.4	130.5	132.2	134.2	137.7	141.4	146.0	146.5	151.3	152.3
10°	122.3	122.8	123.5	125.4	128.3	132.3	136.3	141.8	142.7	149.8	152.3
12.5°	117.3	117.4	118.3	120.5	123.3	127.2	131.7	137.7	138.8	147.3	151.9
15°	113.7	113.6	114.6	116.7	119.3	123.4	127.8	134.1	135.3	145.1	151.8
17.5°	111.5	111.6	112.4	114.0	116.6	120.4	124.9	131.1	132.3	143.3	152.3
20°	111.5	111.5	112.0	112.7	114.7	118.1	122.5	128.9	130.2	142.2	153.0
22.5°	113.7	113.5	113.9	113.3	114.2	116.6	121.1	127.5	128.8	141.7	154.2
25°	117.6	117.2	117.5	116.1	115.1	116.1	120.2	126.9	128.3	141.8	155.2
27.5°	123.0	123.0	122.4	120.6	118.0	116.9	120.1	126.4	127.9	141.8	155.9
30°	130.7	130.4	129.4	127.6	123.6	119.7	121.1	126.4	127.9	141.9	156.1
32.5°	138.3	138.5	139.0	137.2	131.7	124.7	123.6	127.4	128.6	141.8	155.8
35°	146.0	146.1	148.4	148.6	141.6	132.6	127.8	129.8	130.7	142.8	156.0
37.5°	152.8	153.3	157.8	159.9	154.2	142.8	134.5	134.5	134.9	145.6	157.3
40°	160.5	161.8	167.2	172.0	169.7	155.9	144.3	141.3	141.5	150.7	160.0
42.5°	169.3	171.0	178.0	185.0	184.9	172.0	156.6	152.1	152.3	159.4	165.7
45°	180.5	181.7	190.5	199.3	201.2	189.7	172.2	166.2	166.4	172.7	176.7
47.5°	194.3	195.6	204.1	214.7	219.4	211.1	192.4	185.9	185.3	189.7	192.6
50°	212.2	214.8	219.8	229.9	241.3	235.8	216.1	209.6	208.8	212.3	213.2
52.5°	229.3	231.7	233.7	243.0	265.2	266.5	245.2	238.1	237.2	238.1	239.2
55°	231.9	233.2	234.8	247.3	284.4	305.6	278.2	269.8	267.4	265.9	269.7
57.5°	211.4	210.5	215.7	232.8	287.6	348.7	323.0	306.6	304.3	295.8	291.9
60°	167.4	166.2	171.1	194.5	269.7	370.2	385.0	347.3	341.7	313.1	309.4
62.5°	117.6	116.2	122.5	136.3	209.2	365.9	455.0	385.8	374.8	328.4	323.4
65°	90.6	90.0	93.4	96.5	127.7	317.0	493.5	461.1	438.3	345.1	338.6
67.5°	71.0	71.8	76.1	85.0	82.4	197.6	489.9	575.9	553.1	375.8	371.7
70°	57.1	57.3	62.6	76.9	77.8	100.6	414.8	635.2	634.9	425.4	398.0
72.5°	34.5	35.5	44.0	66.5	78.5	77.0	278.9	582.0	590.1	436.9	358.9
75°	16.6	17.5	22.8	44.6	78.0	74.9	150.9	440.7	451.0	391.8	291.0
77.5°	6.2	7.0	10.5	21.8	57.8	68.6	79.4	297.1	305.2	286.8	197.1
80°	2.0	2.3	4.1	10.0	29.4	56.7	51.1	167.6	173.0	125.5	66.3
82.5°	0.2	0.3	1.1	3.4	11.3	28.9	30.0	63.1	65.9	24.5	13.4
85°	0.0	0.0	0.0	0.0	0.2	0.2	7.4	12.1	9.9	2.4	3.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.3	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°	151.7	151.7	151.7	151.7	151.7	151.7	151.7	151.7	151.7	151.7	151.7
2.5°	151.5	151.5	150.8	149.6	148.2	146.1	145.6	144.0	144.0	142.6	142.4
5°	151.7	151.1	148.7	145.2	140.4	135.1	131.8	128.2	125.1	123.1	123.4
7.5°	151.7	150.4	145.6	137.9	128.8	119.7	112.8	104.8	101.1	98.6	99.8
10°	151.3	149.0	140.8	129.0	114.7	102.1	90.8	81.5	75.1	72.4	70.2
12.5°	150.4	147.1	134.7	118.0	99.7	83.2	67.5	55.3	46.9	42.7	42.1
15°	149.5	145.0	127.6	105.9	82.6	61.1	43.6	31.9	24.7	23.1	23.3
17.5°	149.3	143.0	120.8	93.2	66.1	40.7	25.1	20.3	19.3	18.9	18.8
20°	149.4	141.3	113.4	80.5	46.8	25.4	19.1	17.9	17.5	17.3	17.2
22.5°	149.8	139.3	106.0	67.2	31.9	18.5	17.0	16.3	15.8	15.5	15.4
25°	149.8	137.2	97.9	53.1	20.9	16.3	15.3	14.3	13.6	13.2	13.2
27.5°	149.5	134.7	89.4	40.3	16.6	14.5	13.4	12.2	11.2	10.7	10.7
30°	148.6	131.7	81.3	28.1	14.5	13.0	11.5	10.0	8.9	8.3	8.1
32.5°	147.3	128.5	71.9	19.8	13.1	11.3	9.7	8.0	7.0	6.4	6.4
35°	145.8	125.3	61.8	15.1	11.9	10.0	8.1	6.5	5.6	5.2	5.0
37.5°	145.1	121.9	51.9	13.1	10.6	8.6	6.6	5.3	4.5	4.2	4.1
40°	145.6	119.3	42.3	11.7	9.5	7.2	5.5	4.4	3.8	3.4	3.4
42.5°	148.7	117.9	33.1	10.7	8.5	6.1	4.5	3.6	3.0	2.7	2.7
45°	155.0	118.9	25.1	9.8	7.2	5.0	3.8	2.9	2.3	2.0	2.0
47.5°	165.5	123.0	19.1	9.0	6.2	4.1	3.1	2.3	1.8	1.5	1.4
50°	180.9	131.2	14.9	8.1	5.2	3.5	2.6	1.8	1.3	1.1	1.1
52.5°	203.0	145.3	12.8	7.2	4.2	2.9	2.1	1.3	1.0	0.8	0.8
55°	230.2	163.2	11.5	6.4	3.4	2.4	1.6	1.0	0.7	0.6	0.5
57.5°	252.3	177.5	10.8	5.6	2.9	2.1	1.2	0.8	0.6	0.4	0.4
60°	271.7	186.6	9.6	4.6	2.5	1.6	1.0	0.6	0.4	0.3	0.3
62.5°	287.5	192.6	7.9	3.7	2.1	1.3	0.8	0.5	0.4	0.3	0.3
65°	305.4	197.4	6.5	2.9	1.8	1.1	0.7	0.4	0.3	0.3	0.3
67.5°	340.6	208.3	4.8	2.3	1.3	0.9	0.6	0.4	0.3	0.2	0.2
70°	354.3	195.6	3.8	1.9	1.0	0.8	0.6	0.4	0.2	0.2	0.2
72.5°	301.5	146.4	3.0	1.5	0.9	0.7	0.6	0.4	0.3	0.3	0.2
75°	239.2	98.9	2.4	1.2	0.9	0.8	0.6	0.6	0.5	0.4	0.4
77.5°	152.7	43.8	1.9	1.0	0.9	1.0	0.9	0.6	0.6	0.5	0.5
80°	45.5	10.5	1.3	0.8	0.7	0.8	0.9	0.6	0.4	0.3	0.3
82.5°	9.9	2.5	0.8	0.4	0.5	0.4	0.6	0.6	0.4	0.3	0.3
85°	3.3	0.9	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2
87.5°	0.2	0.3	0.3	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2
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)