

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: P472341

Luminaire Tested: **CCW-VA-1-835-U-T3**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472341  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-VA-1-835-U-T3  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2640.4 lumens  
Efficiency: N/A  
Efficacy: 87.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

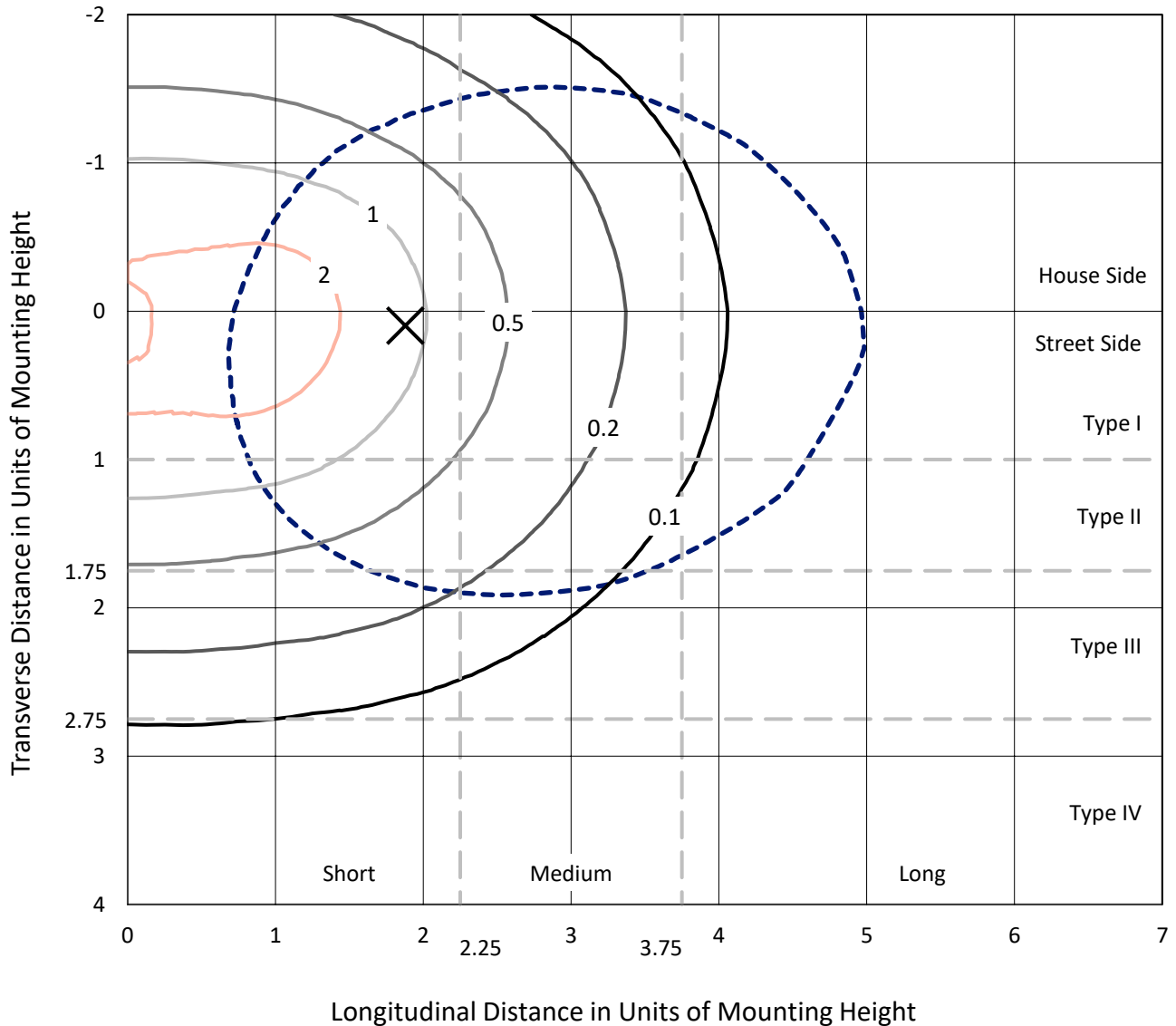
Input Watts (W): 30.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

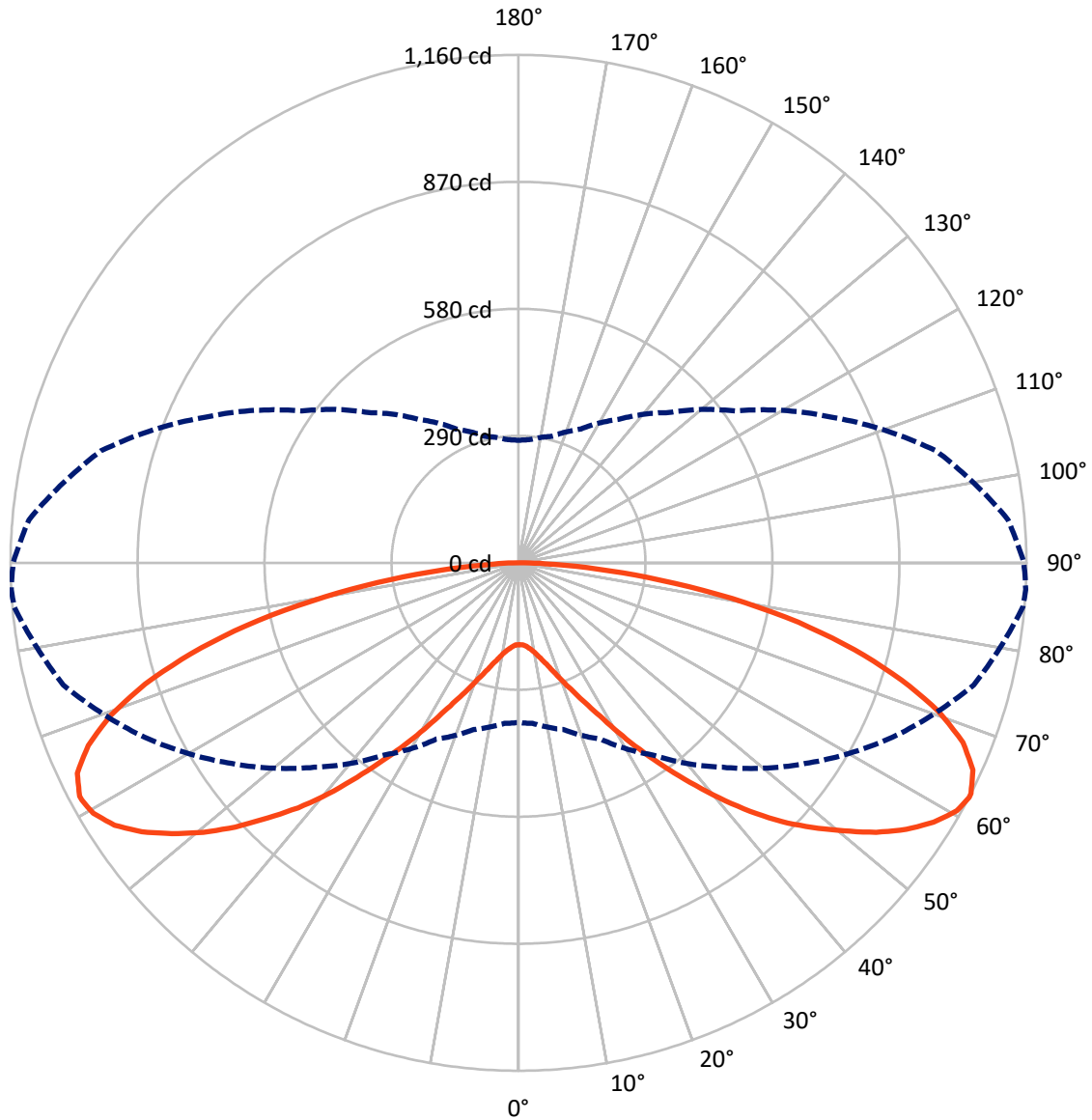
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 87-Deg Lateral      - - - Horizontal Cone Through 62-Deg Vertical

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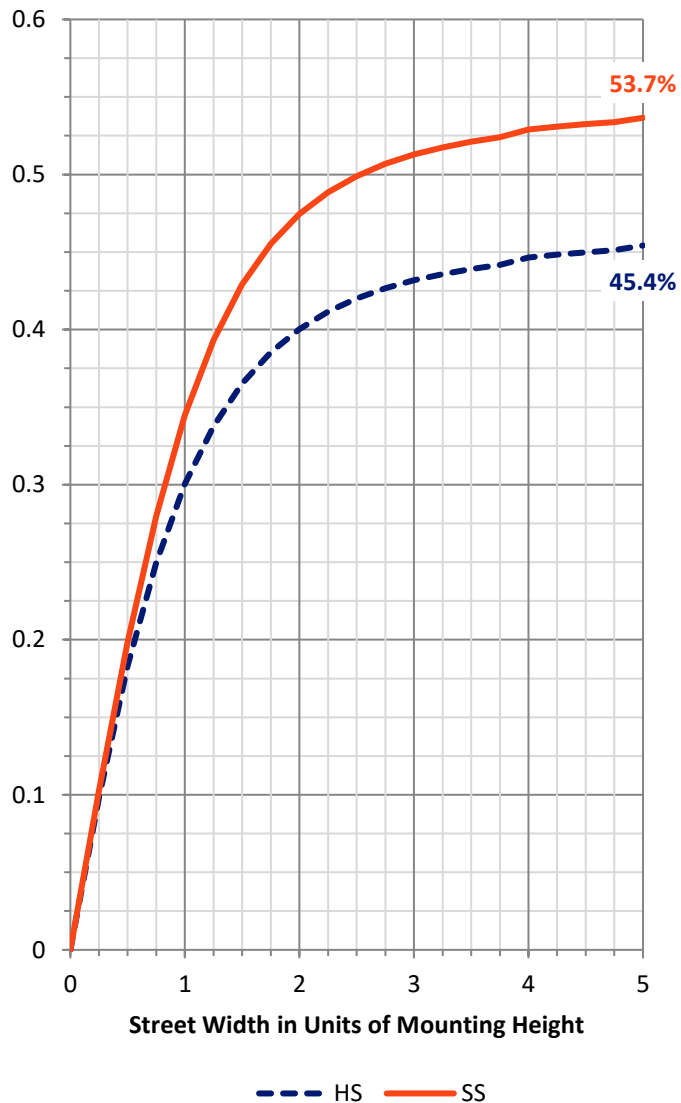
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1215.7	0.0	1215.7
	% Fixture	46.0	0.0	46.0
<b>Street Side</b>	Lumens	1424.7	0.0	1424.7
	% Fixture	54.0	0.0	54.0
<b>Total</b>	Lumens	2640.4	0.0	2640.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	18.8	0.7
10°-20°	66.3	2.5
20°-30°	141.9	5.4
30°-40°	261.4	9.9
40°-50°	417.0	15.8
50°-60°	567.0	21.5
60°-70°	614.3	23.3
70°-80°	439.0	16.6
80°-90°	114.7	4.3
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°	2640.4	100.0
0°-180°	2640.4	100.0

**Coefficient of Utilization**



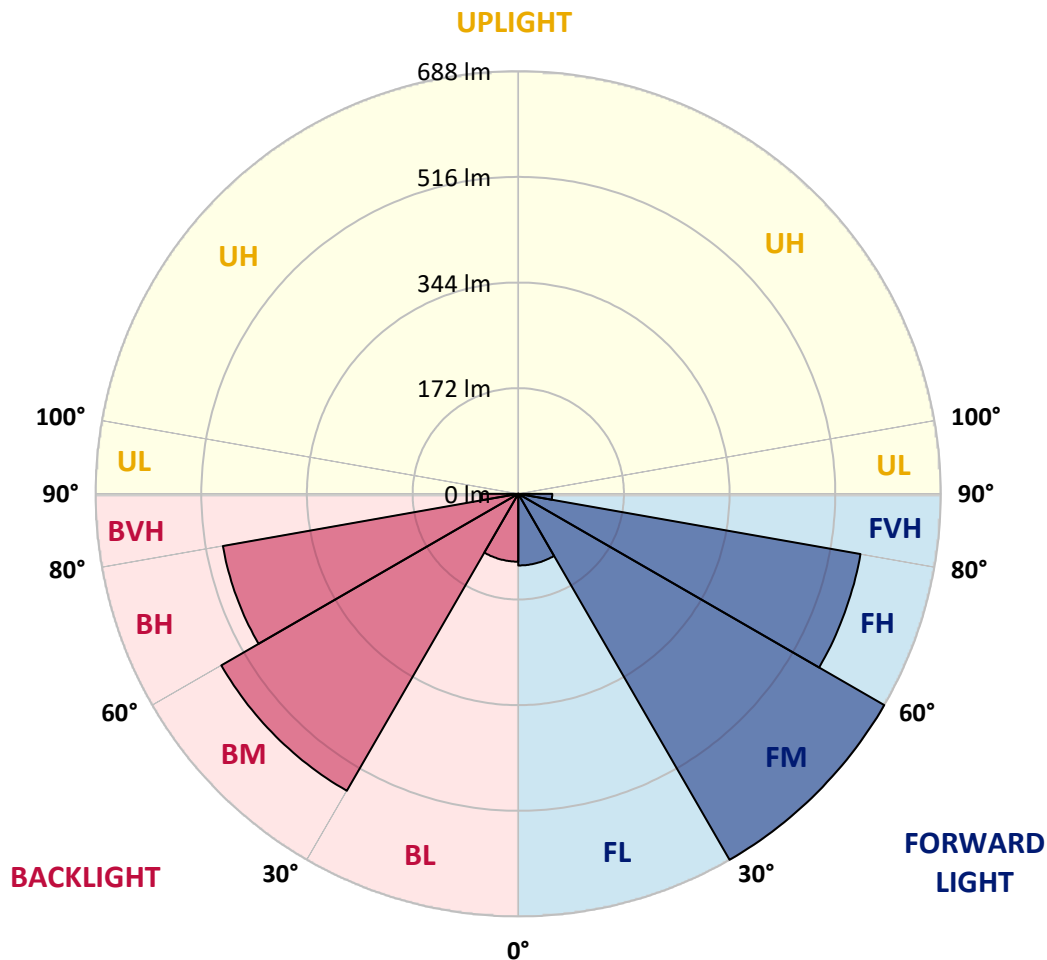
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	116.6	4.4			
FM (30°-60°)	687.5	26.0			
FH (60°-80°)	565.3	21.4			G0/660
FVH (80°-90°)	55.3	2.1			G1/100
BL (0°-30°)	110.4	4.2	B1/500		
BM (30°-60°)	557.9	21.1	B1/1000		
BH (60°-80°)	487.9	18.5	B1/500		G1/500
BVH (80°-90°)	59.5	2.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9
2.5°	187.3	187.3	187.3	187.3	187.3	187.3	187.3	187.3	187.3	187.7	187.7
5°	188.6	188.1	188.1	188.6	189.0	189.4	190.3	190.7	191.5	192.4	192.0
7.5°	192.4	192.4	192.4	192.8	194.1	194.9	196.2	197.5	198.8	199.6	199.2
10°	198.4	198.4	198.4	199.2	200.5	203.0	205.2	207.3	208.6	209.4	209.8
12.5°	204.7	204.7	205.6	207.3	209.8	213.3	217.1	220.1	222.2	223.0	223.5
15°	213.7	214.1	215.8	217.5	220.9	226.0	232.4	236.7	238.8	240.5	240.1
17.5°	227.3	226.9	228.1	232.0	235.8	243.0	250.7	257.9	262.2	262.2	262.2
20°	242.6	242.2	243.0	246.0	252.4	262.2	274.1	283.9	288.6	287.7	288.6
22.5°	259.6	259.6	260.5	263.1	269.4	283.5	300.1	314.6	320.9	318.8	318.0
25°	278.4	278.4	279.7	281.8	290.7	307.7	329.9	350.7	357.1	355.0	354.1
27.5°	300.1	298.4	300.9	303.1	314.1	336.7	365.6	392.0	406.1	398.8	396.3
30°	323.1	321.8	322.2	326.5	339.2	368.2	402.7	438.0	457.6	452.9	449.1
32.5°	343.1	343.9	345.2	352.4	366.9	401.8	441.8	488.2	510.4	509.1	508.2
35°	365.6	365.6	368.2	375.0	396.3	437.6	486.1	538.4	571.2	572.5	569.9
37.5°	383.5	383.5	387.3	396.3	421.4	470.3	529.9	591.7	631.2	638.1	635.9
40°	399.3	398.4	402.7	415.9	445.2	505.2	572.9	644.4	697.6	709.1	706.2
42.5°	408.6	409.5	415.4	432.0	468.2	535.9	615.1	694.2	756.4	776.0	776.0
45°	415.4	416.3	425.2	444.8	489.1	566.1	653.4	745.3	813.8	842.4	843.6
47.5°	418.4	419.7	430.8	454.6	506.5	593.8	690.4	791.3	865.3	905.8	903.2
50°	418.4	420.1	433.3	461.8	522.3	617.2	725.3	835.1	917.7	962.8	962.4
52.5°	415.9	418.0	434.2	467.4	535.5	639.8	756.4	872.6	967.9	1021.1	1022.8
55°	410.8	413.3	432.0	470.8	545.7	657.6	781.5	907.5	1011.3	1071.4	1075.2
57.5°	400.5	403.1	424.4	467.8	549.5	667.0	799.8	932.2	1046.7	1116.9	1117.8
60°	383.5	386.5	409.5	458.0	545.7	667.4	804.5	943.2	1070.5	1147.6	1150.5
62°	364.8	368.2	394.2	444.4	535.9	660.6	799.4	942.8	1076.9	1156.5	1160.3
62.5°	360.1	363.1	389.5	439.7	532.1	657.2	796.4	940.7	1076.0	1156.9	1159.9
65°	331.2	334.1	361.0	414.2	508.7	636.3	774.7	922.0	1060.7	1139.9	1140.7
67.5°	299.2	302.2	329.0	379.3	475.0	601.4	738.1	884.9	1019.9	1088.4	1094.8
70°	262.2	266.5	291.1	340.9	430.8	551.2	680.2	826.2	954.7	1013.0	1019.0
72.5°	225.6	228.6	248.2	292.0	373.3	485.2	605.3	737.2	854.3	909.6	914.7
75°	183.0	185.6	204.7	240.9	309.0	404.4	517.6	632.9	739.4	789.2	793.0
77.5°	144.3	145.1	158.8	187.7	240.1	317.1	410.8	501.8	598.5	643.6	653.8
80°	101.7	106.0	115.4	135.4	168.6	227.3	295.0	372.9	440.5	491.2	494.6
82.5°	66.0	66.8	72.8	80.0	103.9	143.4	187.7	235.8	296.3	329.0	326.5
85°	34.5	34.5	36.6	38.7	46.8	64.3	90.7	124.3	159.6	184.3	180.9
87.5°	6.0	5.5	6.0	5.5	7.2	10.2	19.2	31.1	46.8	55.3	60.9
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°	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9	186.9
2.5°	187.7	187.7	188.1	189.0	189.0	189.4	189.8	189.8	190.3	190.7	190.7
5°	192.8	192.8	193.2	194.1	194.5	194.5	194.9	195.4	195.4	195.4	195.8
7.5°	199.6	200.1	200.5	200.9	201.3	201.3	202.6	202.2	202.2	202.2	202.2
10°	209.4	210.3	210.3	210.3	210.3	209.8	210.3	209.8	209.0	209.0	208.6
12.5°	223.9	223.9	223.0	222.2	220.9	220.5	220.1	218.8	217.1	216.2	216.2
15°	240.5	239.6	237.9	236.2	234.1	232.4	229.4	227.7	225.6	224.7	224.7
17.5°	261.8	260.5	255.8	252.4	247.3	243.5	240.1	236.7	234.1	233.3	232.8
20°	286.0	283.1	276.2	268.6	261.8	255.8	249.4	245.2	242.6	240.5	240.1
22.5°	316.7	312.4	300.5	288.6	276.2	267.7	259.6	253.7	249.0	246.9	246.0
25°	349.9	343.5	328.2	310.3	293.3	280.1	269.9	261.8	256.2	252.8	252.0
27.5°	392.0	382.7	360.1	333.3	310.7	294.1	280.1	270.7	263.5	258.4	257.5
30°	441.4	431.6	394.2	358.8	330.3	306.9	291.6	279.2	270.3	264.3	263.1
32.5°	500.1	482.3	439.3	389.5	350.3	321.8	302.2	287.7	276.7	269.9	268.2
35°	559.7	541.4	484.8	421.8	371.6	337.1	313.7	296.3	283.9	275.4	274.5
37.5°	626.6	604.4	538.0	458.4	394.6	353.3	324.3	304.3	289.4	280.5	279.7
40°	698.5	675.9	595.1	500.6	421.8	369.0	334.6	312.0	295.4	285.6	284.3
42.5°	769.2	742.3	652.9	542.7	449.5	386.5	346.5	320.1	300.5	290.3	288.6
45°	830.4	807.0	711.7	591.2	481.4	404.4	358.4	327.8	306.0	294.6	292.8
47.5°	899.8	874.7	776.0	635.9	512.1	424.8	369.9	334.6	310.7	298.4	297.1
50°	961.1	938.6	833.0	677.2	541.4	444.0	380.5	340.9	314.6	301.4	299.7
52.5°	1016.9	996.9	885.4	715.9	566.5	461.8	390.3	345.6	317.1	302.6	300.5
55°	1073.1	1047.1	930.9	750.0	586.5	475.9	398.4	347.8	316.7	301.8	299.7
57.5°	1115.2	1090.5	964.1	774.3	601.4	485.2	403.1	347.3	314.1	298.0	295.4
60°	1143.7	1116.5	983.7	786.2	606.6	488.2	403.1	343.5	307.7	290.3	287.7
62°	1154.4	1122.9	987.5	787.9	604.4	485.2	400.1	337.1	299.2	282.2	279.7
62.5°	1154.8	1122.4	986.2	786.6	603.1	484.0	398.4	335.0	297.1	279.7	277.1
65°	1136.1	1103.7	970.9	773.4	588.7	472.5	386.5	322.6	282.2	265.2	262.6
67.5°	1082.4	1057.7	934.3	742.8	564.0	451.2	369.0	304.8	264.8	246.9	245.6
70°	1007.9	985.4	874.7	696.4	528.2	420.5	343.1	280.9	242.6	226.4	223.5
72.5°	914.3	884.9	790.0	634.2	476.7	378.4	309.0	251.1	217.1	202.6	200.9
75°	798.1	762.8	683.6	552.1	415.0	327.8	269.4	217.9	187.7	175.4	176.6
77.5°	650.0	633.4	552.5	440.1	338.0	271.1	220.9	184.7	158.8	148.6	147.7
80°	490.8	475.0	418.4	334.1	255.4	205.2	171.1	145.6	127.7	118.8	118.3
82.5°	332.9	318.0	275.0	224.3	174.1	145.1	123.9	107.3	96.2	91.9	91.9
85°	183.0	170.3	145.6	121.3	98.3	83.0	80.0	71.5	68.5	67.7	68.5
87.5°	57.0	56.6	48.1	39.6	34.5	34.9	31.5	32.3	30.6	30.2	32.3
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)