

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: P472309

Luminaire Tested: **CCW-VA-1-727-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472309
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-727-U-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2605.9 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

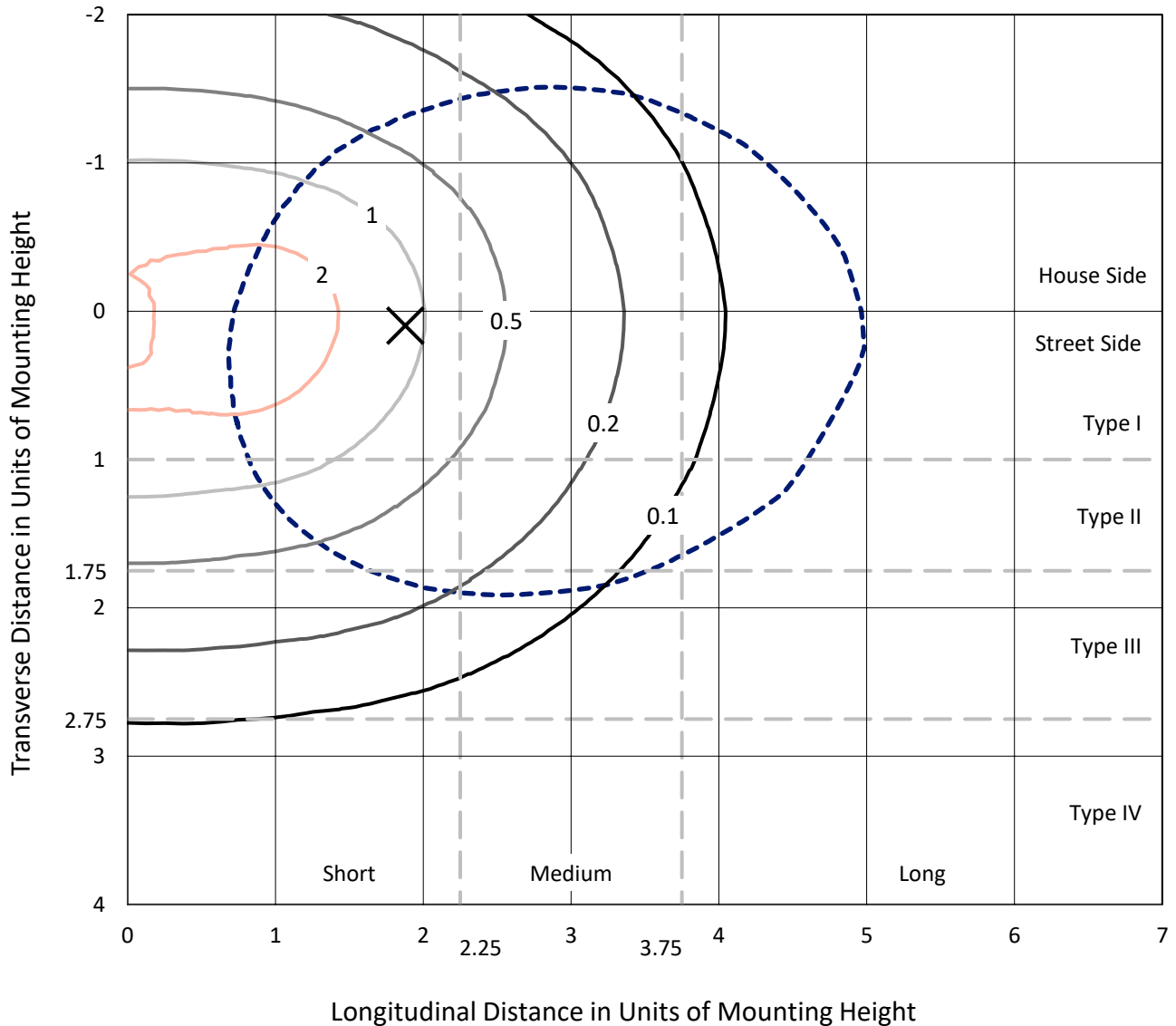
Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

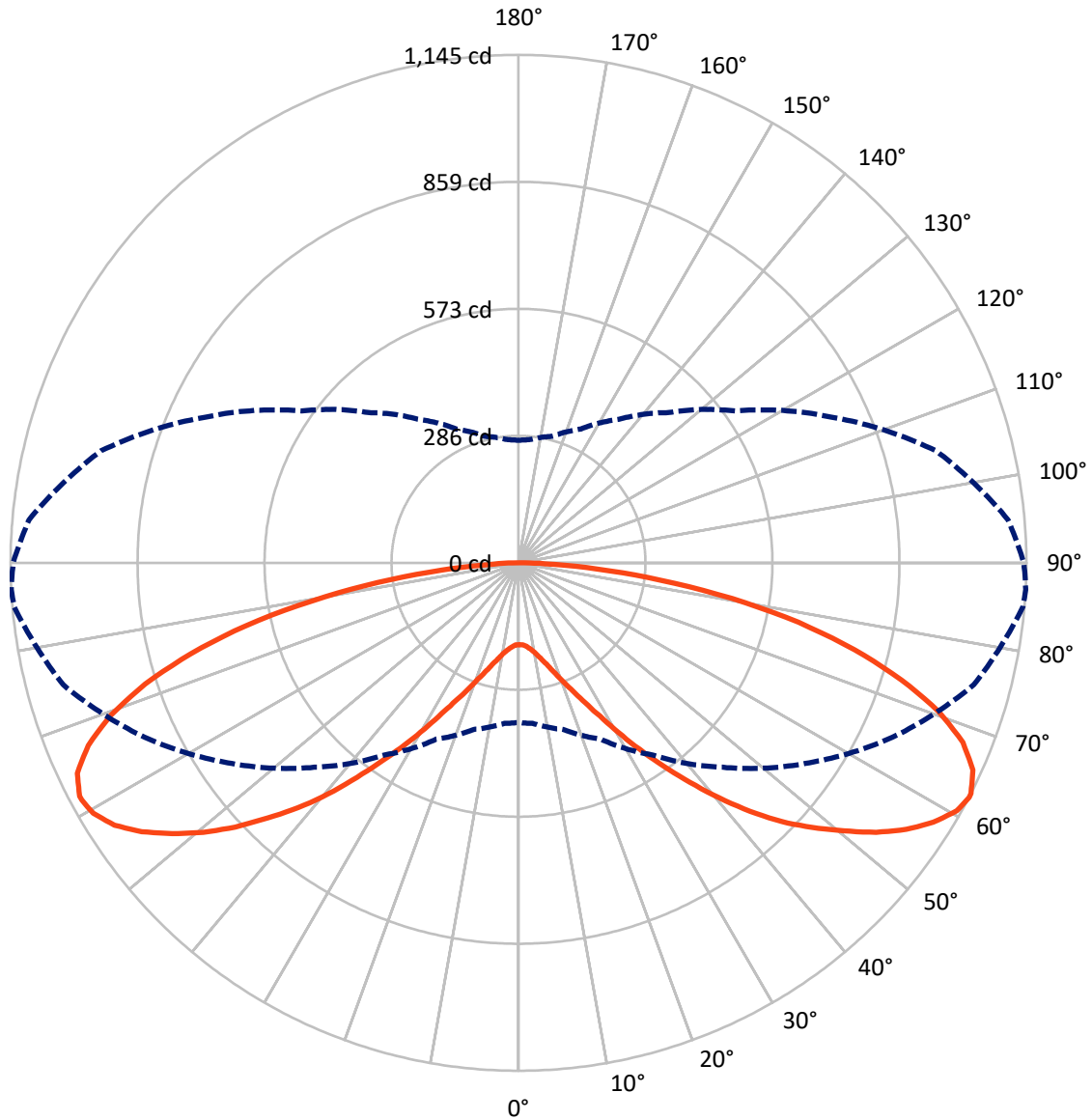
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.1 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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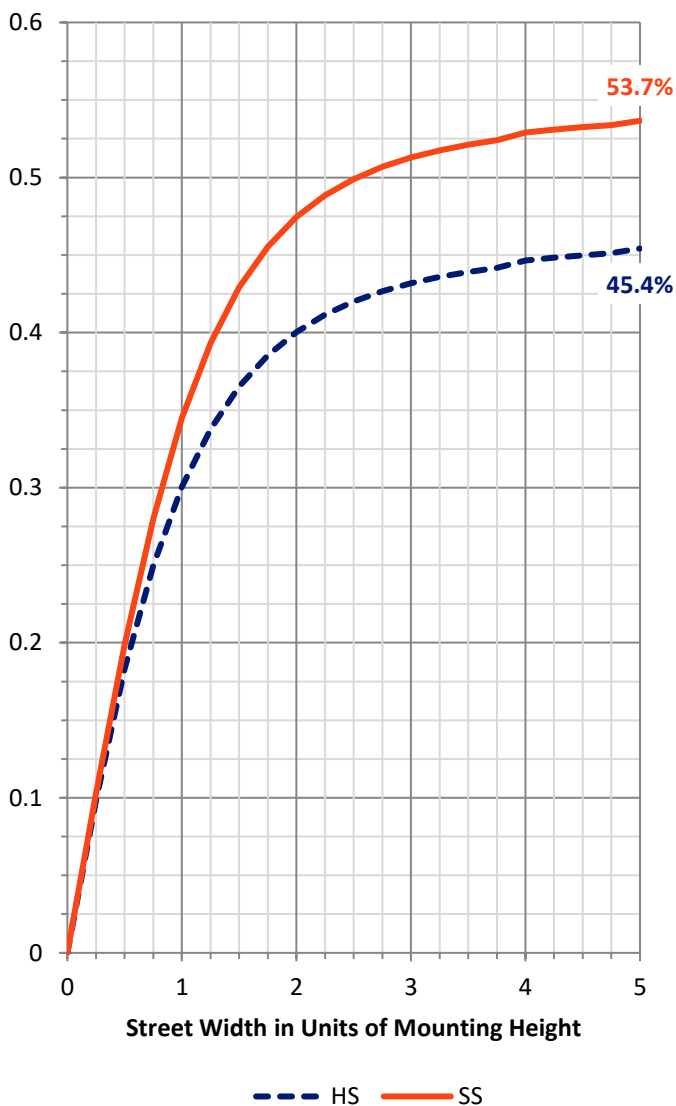
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1199.8	0.0	1199.8
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	1406.1	0.0	1406.1
	% Fixture	54.0	0.0	54.0
Total	Lumens	2605.9	0.0	2605.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.6	0.7
10°-20°	65.5	2.5
20°-30°	140.0	5.4
30°-40°	258.0	9.9
40°-50°	411.5	15.8
50°-60°	559.6	21.5
60°-70°	606.3	23.3
70°-80°	433.2	16.6
80°-90°	113.2	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°	2605.9	100.0
0°-180°	2605.9	100.0

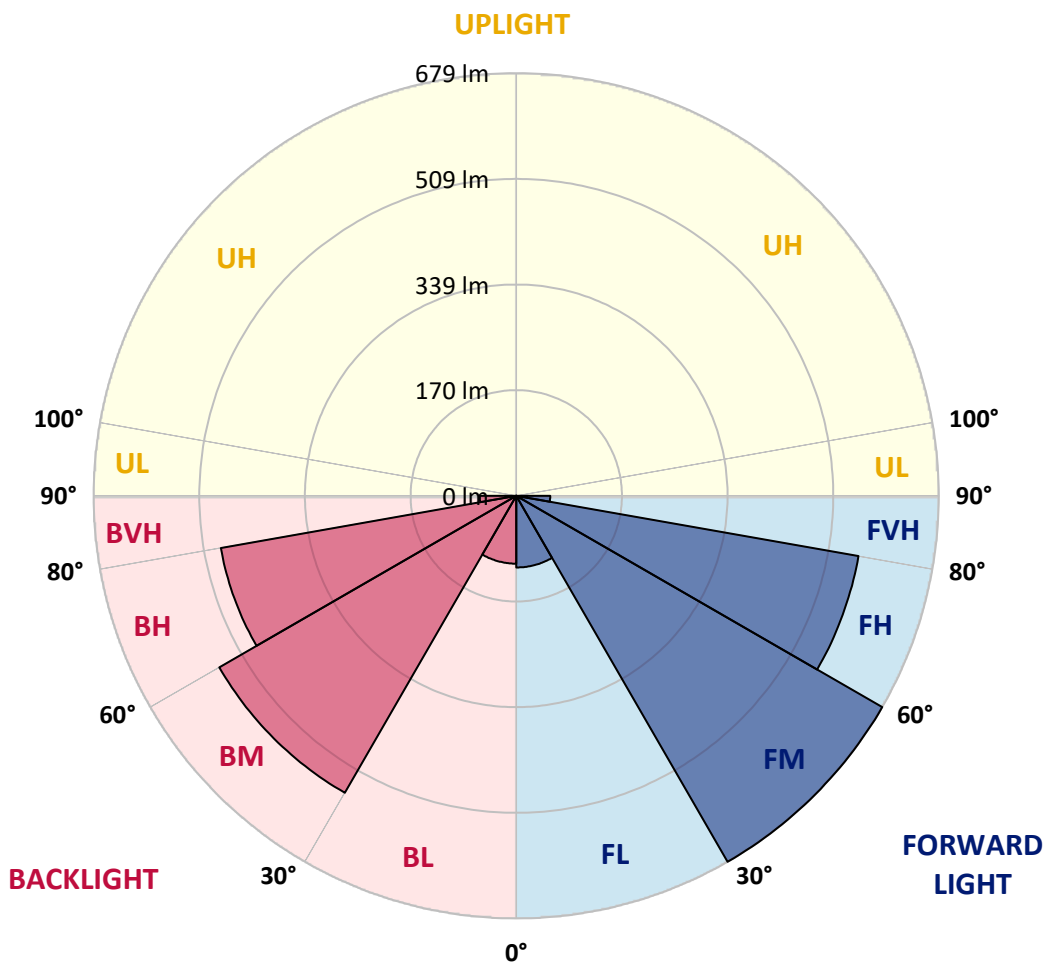


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	115.1	4.4			
FM (30°-60°)	678.5	26.0			
FH (60°-80°)	557.9	21.4			G0/660
FVH (80°-90°)	54.5	2.1			G1/100
BL (0°-30°)	109.0	4.2	B0/110		
BM (30°-60°)	550.6	21.1	B1/1000		
BH (60°-80°)	481.6	18.5	B1/500		G1/500
BVH (80°-90°)	58.7	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°	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4
2.5°	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	184.8	185.3	185.3
5°	186.1	185.7	185.7	186.1	186.5	186.9	187.8	188.2	189.0	189.9	189.5
7.5°	189.9	189.9	189.9	190.3	191.6	192.4	193.7	194.9	196.2	197.0	196.6
10°	195.8	195.8	195.8	196.6	197.9	200.4	202.5	204.6	205.8	206.7	207.1
12.5°	202.1	202.1	202.9	204.6	207.1	210.5	214.2	217.2	219.3	220.1	220.5
15°	210.9	211.3	213.0	214.7	218.0	223.1	229.4	233.6	235.7	237.4	236.9
17.5°	224.3	223.9	225.2	228.9	232.7	239.9	247.4	254.6	258.8	258.8	258.8
20°	239.5	239.0	239.9	242.8	249.1	258.8	270.5	280.2	284.8	284.0	284.8
22.5°	256.3	256.3	257.1	259.6	265.9	279.8	296.2	310.4	316.7	314.6	313.8
25°	274.7	274.7	276.0	278.1	286.9	303.7	325.6	346.2	352.5	350.4	349.5
27.5°	296.2	294.5	297.0	299.1	310.0	332.3	360.9	386.9	400.8	393.6	391.1
30°	318.8	317.6	318.0	322.2	334.8	363.4	397.4	432.3	451.6	447.0	443.2
32.5°	338.6	339.4	340.7	347.8	362.1	396.6	436.1	481.8	503.7	502.4	501.6
35°	360.9	360.9	363.4	370.1	391.1	431.9	479.7	531.4	563.8	565.0	562.5
37.5°	378.5	378.5	382.3	391.1	415.9	464.2	523.0	583.9	623.0	629.7	627.6
40°	394.0	393.2	397.4	410.4	439.4	498.6	565.4	636.0	688.5	699.9	696.9
42.5°	403.3	404.1	410.0	426.4	462.1	528.9	607.0	685.2	746.5	765.8	765.8
45°	410.0	410.8	419.7	439.0	482.7	558.7	644.8	735.6	803.2	831.4	832.6
47.5°	412.9	414.2	425.1	448.7	499.9	586.0	681.4	780.9	854.0	894.0	891.4
50°	412.9	414.6	427.7	455.8	515.4	609.1	715.8	824.2	905.7	950.2	949.8
52.5°	410.4	412.5	428.5	461.3	528.5	631.4	746.5	861.2	955.3	1007.8	1009.5
55°	405.4	407.9	426.4	464.6	538.6	649.0	771.3	895.6	998.1	1057.4	1061.1
57.5°	395.3	397.8	418.8	461.7	542.3	658.3	789.3	920.0	1033.0	1102.3	1103.2
60°	378.5	381.4	404.1	452.0	538.6	658.7	794.0	930.9	1056.5	1132.6	1135.5
62°	360.0	363.4	389.0	438.6	528.9	652.0	788.9	930.5	1062.8	1141.4	1145.2
62.5°	355.4	358.3	384.4	434.0	525.1	648.6	786.0	928.4	1062.0	1141.8	1144.7
65°	326.8	329.8	356.2	408.7	502.0	628.0	764.6	909.9	1046.9	1125.0	1125.8
67.5°	295.3	298.3	324.7	374.3	468.8	593.6	728.4	873.4	1006.5	1074.2	1080.5
70°	258.8	263.0	287.3	336.5	425.1	544.0	671.3	815.4	942.3	999.8	1005.7
72.5°	222.6	225.6	244.9	288.2	368.4	478.9	597.4	727.6	843.1	897.7	902.8
75°	180.6	183.2	202.1	237.8	305.0	399.1	510.8	624.7	729.7	778.8	782.6
77.5°	142.4	143.3	156.7	185.3	236.9	313.0	405.4	495.3	590.6	635.2	645.3
80°	100.4	104.6	113.8	133.6	166.4	224.3	291.1	368.0	434.8	484.8	488.1
82.5°	65.1	66.0	71.8	79.0	102.5	141.6	185.3	232.7	292.4	324.7	322.2
85°	34.0	34.0	36.1	38.2	46.2	63.4	89.5	122.7	157.5	181.9	178.5
87.5°	5.9	5.5	5.9	5.5	7.1	10.1	18.9	30.7	46.2	54.6	60.1
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°	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4	184.4
2.5°	185.3	185.3	185.7	186.5	186.5	186.9	187.4	187.4	187.8	188.2	188.2
5°	190.3	190.3	190.7	191.6	192.0	192.0	192.4	192.8	192.8	192.8	193.2
7.5°	197.0	197.4	197.9	198.3	198.7	198.7	200.0	199.5	199.5	199.5	199.5
10°	206.7	207.5	207.5	207.5	207.5	207.1	207.5	207.1	206.3	206.3	205.8
12.5°	221.0	221.0	220.1	219.3	218.0	217.6	217.2	215.9	214.2	213.4	213.4
15°	237.4	236.5	234.8	233.1	231.0	229.4	226.4	224.7	222.6	221.8	221.8
17.5°	258.4	257.1	252.5	249.1	244.1	240.3	236.9	233.6	231.0	230.2	229.8
20°	282.3	279.4	272.6	265.1	258.4	252.5	246.2	242.0	239.5	237.4	236.9
22.5°	312.5	308.3	296.6	284.8	272.6	264.2	256.3	250.4	245.8	243.7	242.8
25°	345.3	339.0	323.9	306.2	289.4	276.4	266.3	258.4	252.9	249.5	248.7
27.5°	386.9	377.7	355.4	328.9	306.7	290.3	276.4	267.2	260.0	255.0	254.2
30°	435.6	426.0	389.0	354.1	326.0	302.9	287.8	275.6	266.8	260.9	259.6
32.5°	493.6	476.0	433.5	384.4	345.7	317.6	298.3	284.0	273.1	266.3	264.7
35°	552.4	534.4	478.5	416.3	366.7	332.7	309.6	292.4	280.2	271.8	271.0
37.5°	618.4	596.5	531.0	452.4	389.4	348.7	320.1	300.4	285.7	276.8	276.0
40°	689.4	667.1	587.3	494.0	416.3	364.2	330.2	307.9	291.5	281.9	280.6
42.5°	759.1	732.6	644.4	535.6	443.6	381.4	342.0	315.9	296.6	286.5	284.8
45°	819.6	796.5	702.4	583.5	475.1	399.1	353.7	323.5	302.0	290.7	289.0
47.5°	888.1	863.3	765.8	627.6	505.4	419.2	365.1	330.2	306.7	294.5	293.2
50°	948.6	926.3	822.1	668.4	534.4	438.2	375.6	336.5	310.4	297.4	295.7
52.5°	1003.6	983.8	873.8	706.6	559.1	455.8	385.2	341.1	313.0	298.7	296.6
55°	1059.0	1033.4	918.7	740.2	578.9	469.7	393.2	343.2	312.5	297.8	295.7
57.5°	1100.6	1076.3	951.5	764.1	593.6	478.9	397.8	342.8	310.0	294.1	291.5
60°	1128.8	1101.9	970.8	775.9	598.6	481.8	397.8	339.0	303.7	286.5	284.0
62°	1139.3	1108.2	974.6	777.6	596.5	478.9	394.9	332.7	295.3	278.5	276.0
62.5°	1139.7	1107.8	973.3	776.3	595.3	477.6	393.2	330.6	293.2	276.0	273.5
65°	1121.2	1089.3	958.2	763.3	581.0	466.3	381.4	318.4	278.5	261.7	259.2
67.5°	1068.3	1043.9	922.1	733.1	556.6	445.3	364.2	300.8	261.3	243.7	242.4
70°	994.8	972.5	863.3	687.3	521.3	415.0	338.6	277.3	239.5	223.5	220.5
72.5°	902.4	873.4	779.7	625.9	470.5	373.5	305.0	247.9	214.2	200.0	198.3
75°	787.7	752.8	674.7	544.9	409.6	323.5	265.9	215.1	185.3	173.1	174.3
77.5°	641.5	625.1	545.3	434.4	333.6	267.6	218.0	182.3	156.7	146.6	145.8
80°	484.4	468.8	412.9	329.8	252.1	202.5	168.9	143.7	126.0	117.2	116.8
82.5°	328.5	313.8	271.4	221.4	171.8	143.3	122.2	105.9	94.9	90.7	90.7
85°	180.6	168.0	143.7	119.7	97.0	81.9	79.0	70.6	67.6	66.8	67.6
87.5°	56.3	55.9	47.5	39.1	34.0	34.4	31.1	31.9	30.2	29.8	31.9
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)