

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: P472333

Luminaire Tested: **CCW-VA-1-827-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472333
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-827-U-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2501.8 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

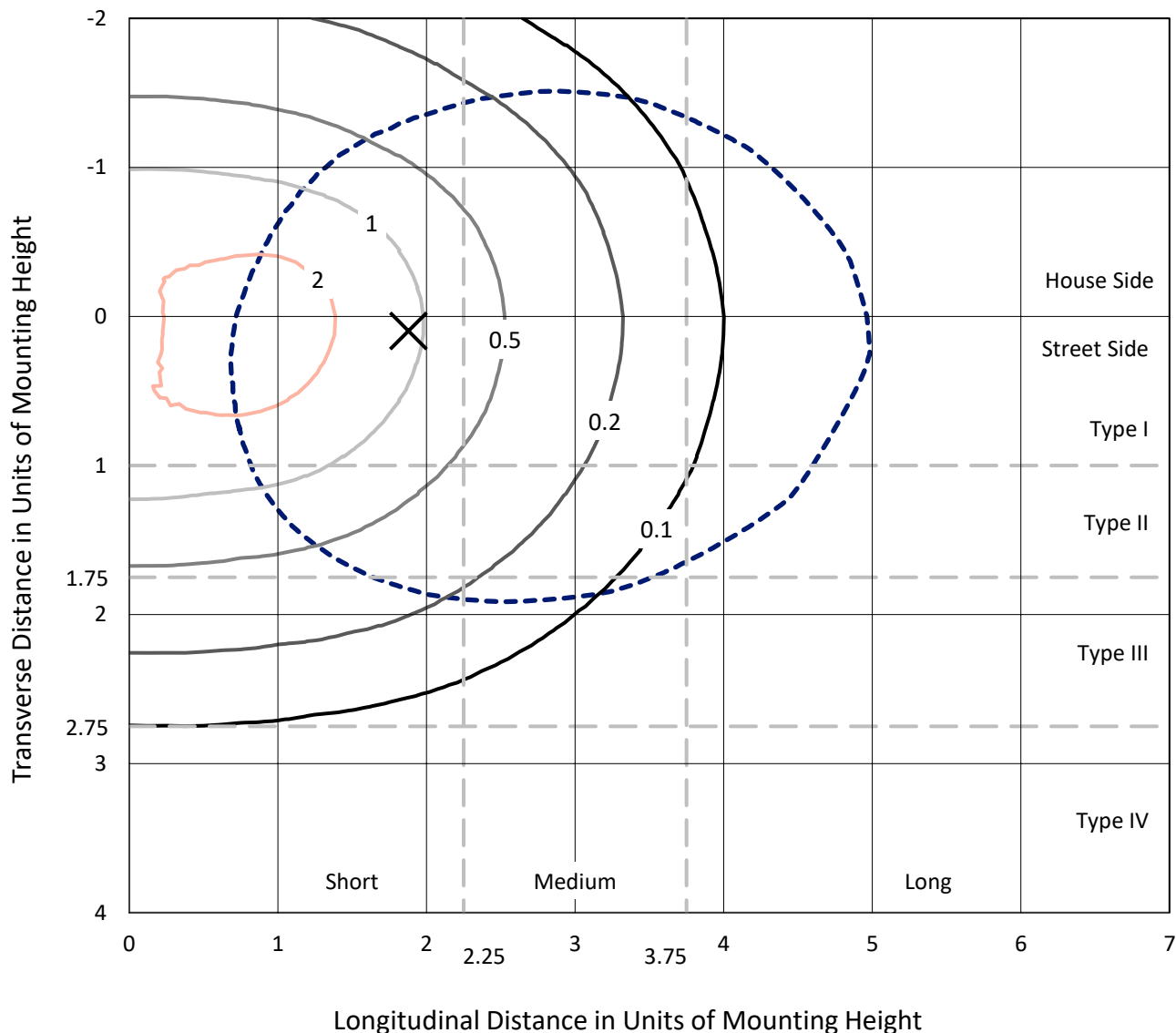
Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

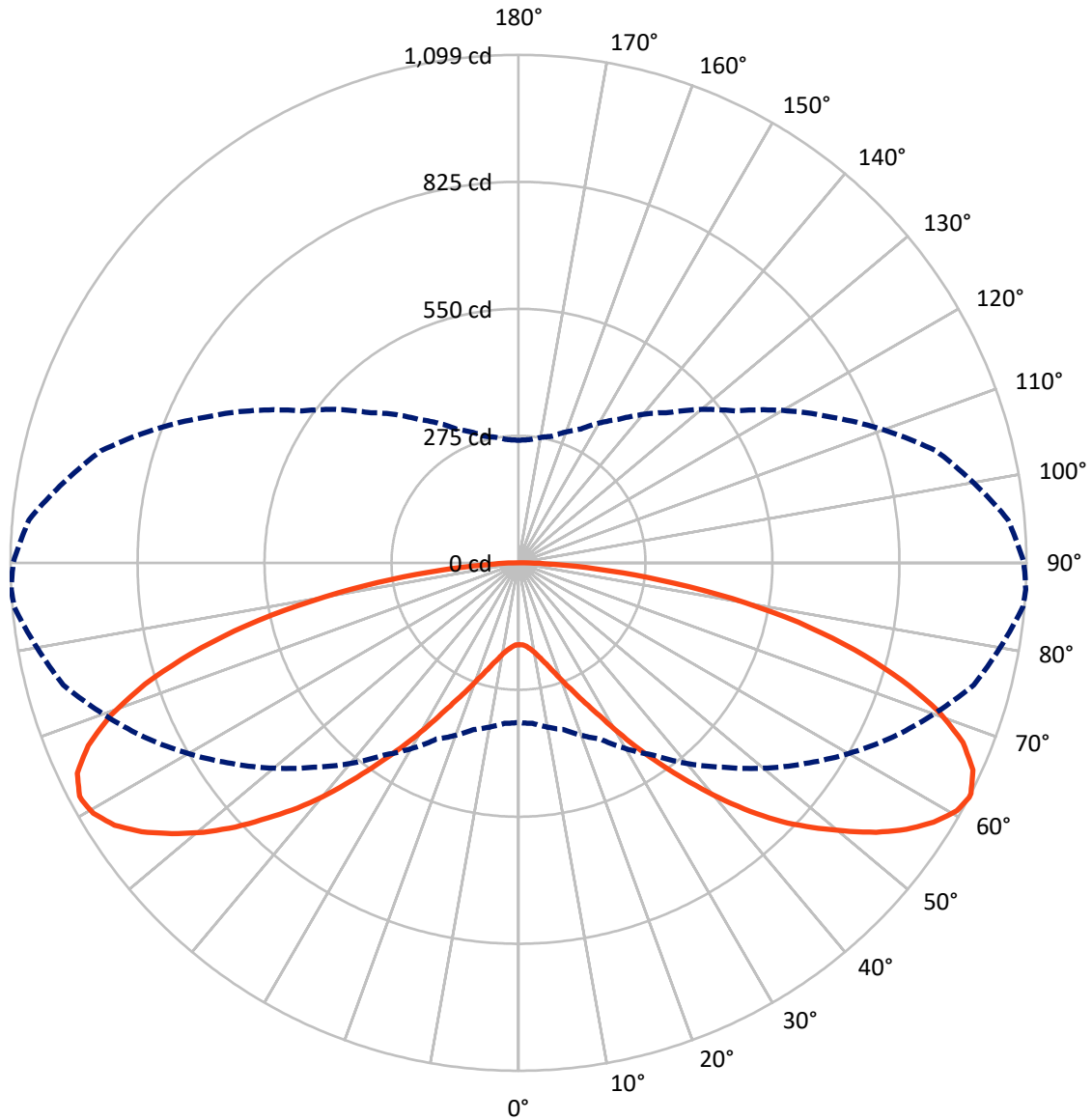
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 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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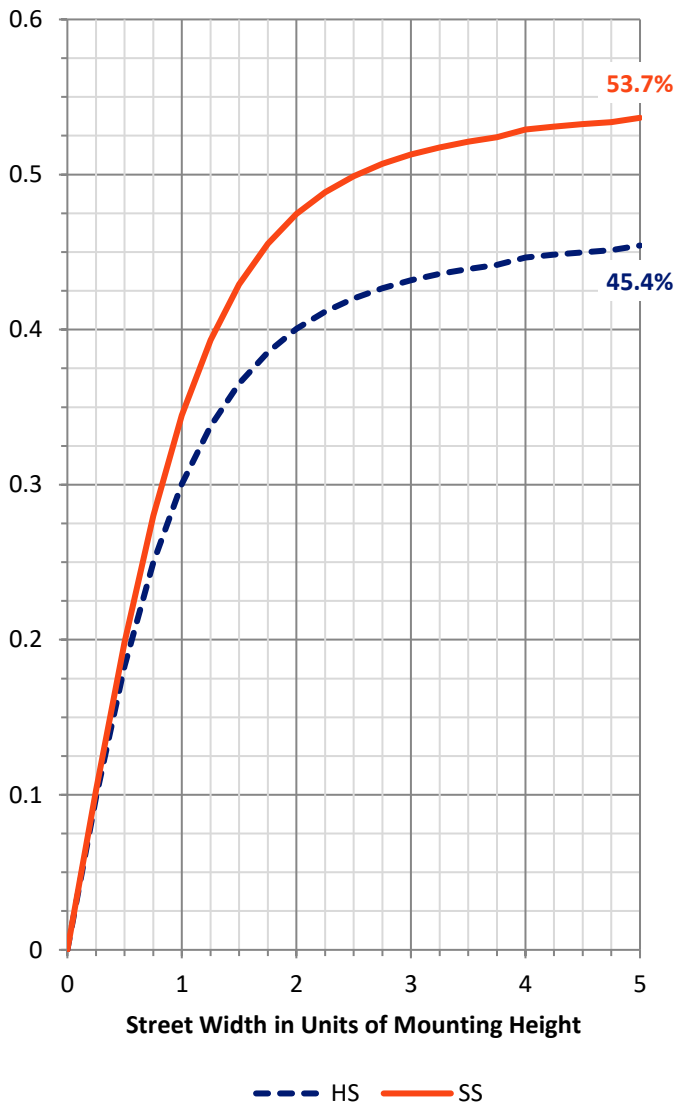
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1151.9	0.0	1151.9
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	1349.9	0.0	1349.9
	% Fixture	54.0	0.0	54.0
Total	Lumens	2501.8	0.0	2501.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.8	0.7
10°-20°	62.9	2.5
20°-30°	134.4	5.4
30°-40°	247.7	9.9
40°-50°	395.1	15.8
50°-60°	537.2	21.5
60°-70°	582.1	23.3
70°-80°	415.9	16.6
80°-90°	108.7	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°	2501.8	100.0
0°-180°	2501.8	100.0

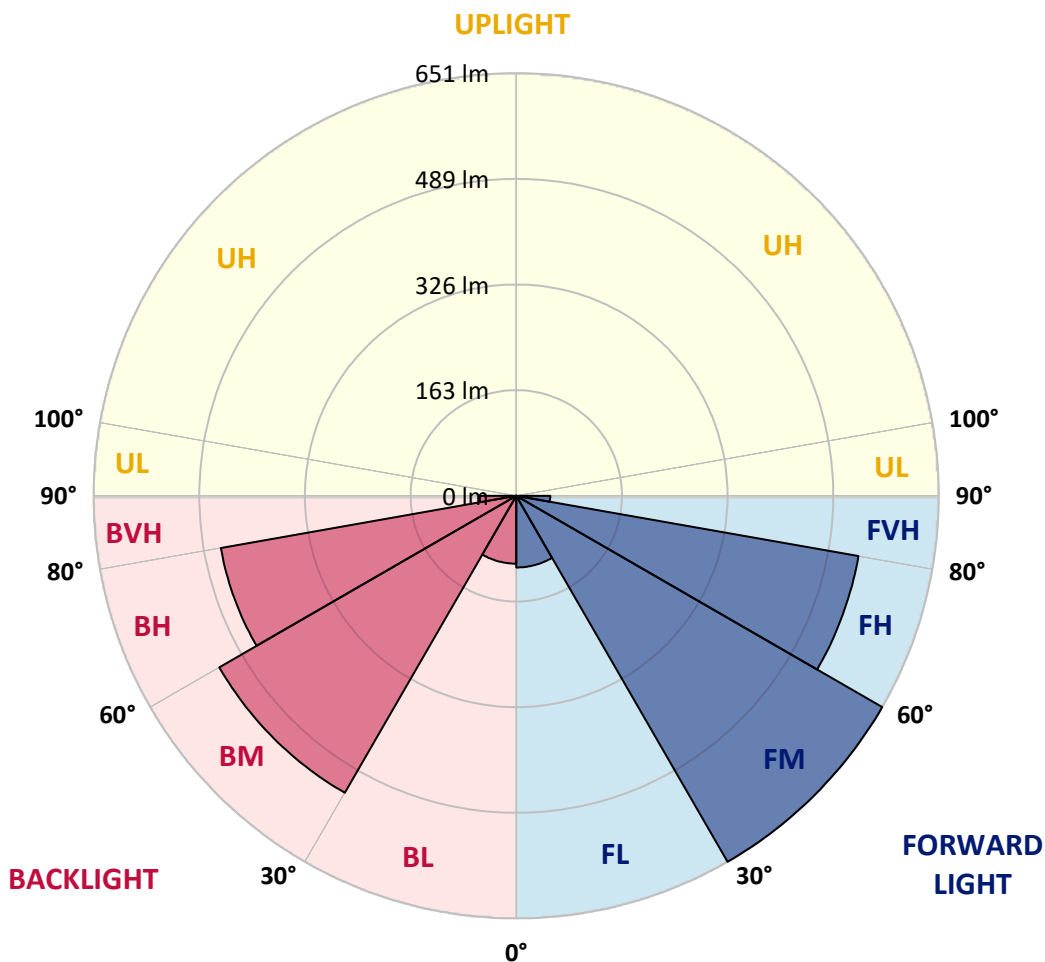


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	110.5	4.4			
FM (30°-60°)	651.4	26.0			
FH (60°-80°)	535.6	21.4			G0/660
FVH (80°-90°)	52.4	2.1			G1/100
BL (0°-30°)	104.6	4.2	B0/110		
BM (30°-60°)	528.6	21.1	B1/1000		
BH (60°-80°)	462.3	18.5	B1/500		G1/500
BVH (80°-90°)	56.3	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°	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1
2.5°	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.5	177.9	177.9
5°	178.7	178.3	178.3	178.7	179.1	179.5	180.3	180.7	181.5	182.3	181.9
7.5°	182.3	182.3	182.3	182.7	183.9	184.7	185.9	187.1	188.3	189.2	188.8
10°	187.9	187.9	187.9	188.8	190.0	192.4	194.4	196.4	197.6	198.4	198.8
12.5°	194.0	194.0	194.8	196.4	198.8	202.1	205.7	208.5	210.5	211.3	211.7
15°	202.5	202.9	204.5	206.1	209.3	214.2	220.2	224.2	226.3	227.9	227.5
17.5°	215.4	215.0	216.2	219.8	223.4	230.3	237.6	244.4	248.4	248.4	248.4
20°	229.9	229.5	230.3	233.1	239.2	248.4	259.7	269.0	273.4	272.6	273.4
22.5°	246.0	246.0	246.8	249.2	255.3	268.6	284.3	298.0	304.1	302.1	301.3
25°	263.8	263.8	265.0	267.0	275.5	291.6	312.6	332.3	338.4	336.4	335.6
27.5°	284.3	282.7	285.1	287.2	297.6	319.0	346.4	371.5	384.8	377.9	375.5
30°	306.1	304.9	305.3	309.3	321.4	348.9	381.5	415.0	433.6	429.1	425.5
32.5°	325.1	325.9	327.1	333.9	347.7	380.7	418.6	462.6	483.6	482.4	481.6
35°	346.4	346.4	348.9	355.3	375.5	414.6	460.6	510.2	541.2	542.5	540.0
37.5°	363.4	363.4	367.0	375.5	399.3	445.7	502.1	560.6	598.1	604.6	602.6
40°	378.3	377.5	381.5	394.0	421.9	478.7	542.9	610.6	661.0	671.9	669.1
42.5°	387.2	388.0	393.6	409.4	443.6	507.8	582.8	657.8	716.7	735.2	735.2
45°	393.6	394.4	402.9	421.5	463.4	536.4	619.1	706.2	771.1	798.2	799.4
47.5°	396.5	397.7	408.2	430.7	479.9	562.6	654.2	749.8	819.9	858.3	855.8
50°	396.5	398.1	410.6	437.6	494.9	584.8	687.2	791.3	869.5	912.3	911.9
52.5°	394.0	396.1	411.4	442.8	507.4	606.2	716.7	826.8	917.1	967.5	969.2
55°	389.2	391.6	409.4	446.1	517.0	623.1	740.5	859.9	958.3	1015.1	1018.8
57.5°	379.5	381.9	402.1	443.2	520.7	632.0	757.8	883.3	991.7	1058.3	1059.1
60°	363.4	366.2	388.0	434.0	517.0	632.4	762.3	893.7	1014.3	1087.3	1090.2
62°	345.6	348.9	373.5	421.1	507.8	625.9	757.4	893.3	1020.4	1095.8	1099.4
62.5°	341.2	344.0	369.0	416.6	504.1	622.7	754.6	891.3	1019.6	1096.2	1099.0
65°	313.8	316.6	342.0	392.4	482.0	603.0	734.0	873.6	1005.1	1080.1	1080.9
67.5°	283.5	286.4	311.8	359.4	450.1	569.9	699.3	838.5	966.3	1031.3	1037.3
70°	248.4	252.5	275.9	323.1	408.2	522.3	644.5	782.8	904.6	959.9	965.5
72.5°	213.8	216.6	235.1	276.7	353.7	459.8	573.5	698.5	809.4	861.9	866.7
75°	173.4	175.8	194.0	228.3	292.8	383.1	490.4	599.7	700.6	747.7	751.4
77.5°	136.7	137.5	150.4	177.9	227.5	300.5	389.2	475.5	567.1	609.8	619.5
80°	96.4	100.4	109.3	128.3	159.7	215.4	279.5	353.3	417.4	465.4	468.7
82.5°	62.5	63.3	69.0	75.8	98.4	135.9	177.9	223.4	280.7	311.8	309.3
85°	32.7	32.7	34.7	36.7	44.4	60.9	85.9	117.8	151.2	174.6	171.4
87.5°	5.6	5.2	5.6	5.2	6.9	9.7	18.1	29.4	44.4	52.4	57.7
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°	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1	177.1
2.5°	177.9	177.9	178.3	179.1	179.1	179.5	179.9	179.9	180.3	180.7	180.7
5°	182.7	182.7	183.1	183.9	184.3	184.3	184.7	185.1	185.1	185.1	185.5
7.5°	189.2	189.6	190.0	190.4	190.8	190.8	192.0	191.6	191.6	191.6	191.6
10°	198.4	199.2	199.2	199.2	199.2	198.8	199.2	198.8	198.0	198.0	197.6
12.5°	212.1	212.1	211.3	210.5	209.3	208.9	208.5	207.3	205.7	204.9	204.9
15°	227.9	227.1	225.5	223.8	221.8	220.2	217.4	215.8	213.8	212.9	212.9
17.5°	248.0	246.8	242.4	239.2	234.3	230.7	227.5	224.2	221.8	221.0	220.6
20°	271.0	268.2	261.8	254.5	248.0	242.4	236.3	232.3	229.9	227.9	227.5
22.5°	300.1	296.0	284.7	273.4	261.8	253.7	246.0	240.4	235.9	233.9	233.1
25°	331.5	325.5	311.0	294.0	277.9	265.4	255.7	248.0	242.8	239.6	238.8
27.5°	371.5	362.6	341.2	315.8	294.4	278.7	265.4	256.5	249.7	244.8	244.0
30°	418.2	409.0	373.5	340.0	313.0	290.8	276.3	264.6	256.1	250.5	249.2
32.5°	473.9	457.0	416.2	369.0	331.9	304.9	286.4	272.6	262.2	255.7	254.1
35°	530.4	513.0	459.4	399.7	352.1	319.4	297.2	280.7	269.0	260.9	260.1
37.5°	593.7	572.7	509.8	434.4	373.9	334.8	307.3	288.4	274.3	265.8	265.0
40°	661.8	640.5	563.8	474.3	399.7	349.7	317.0	295.6	279.9	270.6	269.4
42.5°	728.8	703.4	618.7	514.2	425.9	366.2	328.3	303.3	284.7	275.1	273.4
45°	786.9	764.7	674.3	560.2	456.1	383.1	339.6	310.6	290.0	279.1	277.5
47.5°	852.6	828.8	735.2	602.6	485.2	402.5	350.5	317.0	294.4	282.7	281.5
50°	910.7	889.3	789.3	641.7	513.0	420.7	360.6	323.1	298.0	285.5	283.9
52.5°	963.5	944.6	838.9	678.4	536.8	437.6	369.8	327.5	300.5	286.8	284.7
55°	1016.8	992.2	882.0	710.6	555.8	450.9	377.5	329.5	300.1	285.9	283.9
57.5°	1056.7	1033.3	913.5	733.6	569.9	459.8	381.9	329.1	297.6	282.3	279.9
60°	1083.7	1057.9	932.1	744.9	574.7	462.6	381.9	325.5	291.6	275.1	272.6
62°	1093.8	1063.9	935.7	746.5	572.7	459.8	379.1	319.4	283.5	267.4	265.0
62.5°	1094.2	1063.5	934.5	745.3	571.5	458.6	377.5	317.4	281.5	265.0	262.6
65°	1076.4	1045.8	920.0	732.8	557.8	447.7	366.2	305.7	267.4	251.3	248.8
67.5°	1025.6	1002.2	885.3	703.8	534.4	427.5	349.7	288.8	250.9	233.9	232.7
70°	955.0	933.7	828.8	659.8	500.5	398.5	325.1	266.2	229.9	214.6	211.7
72.5°	866.3	838.5	748.5	600.9	451.7	358.5	292.8	238.0	205.7	192.0	190.4
75°	756.2	722.7	647.7	523.1	393.2	310.6	255.3	206.5	177.9	166.2	167.4
77.5°	615.9	600.1	523.5	417.0	320.2	256.9	209.3	175.0	150.4	140.8	139.9
80°	465.0	450.1	396.5	316.6	242.0	194.4	162.1	137.9	121.0	112.5	112.1
82.5°	315.4	301.3	260.5	212.5	165.0	137.5	117.4	101.6	91.1	87.1	87.1
85°	173.4	161.3	137.9	114.9	93.2	78.6	75.8	67.8	64.9	64.1	64.9
87.5°	54.0	53.6	45.6	37.5	32.7	33.1	29.8	30.7	29.0	28.6	30.7
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)