

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: P472177

Luminaire Tested: **CCP-VA-1-827-U-T4W**

Issue Date: 01/27/2021



Test Information

Test Method: LM-79-08
Report Number: P472177
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-VA-1-827-U-T4W
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T4W
DISTRIBUTION LENS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

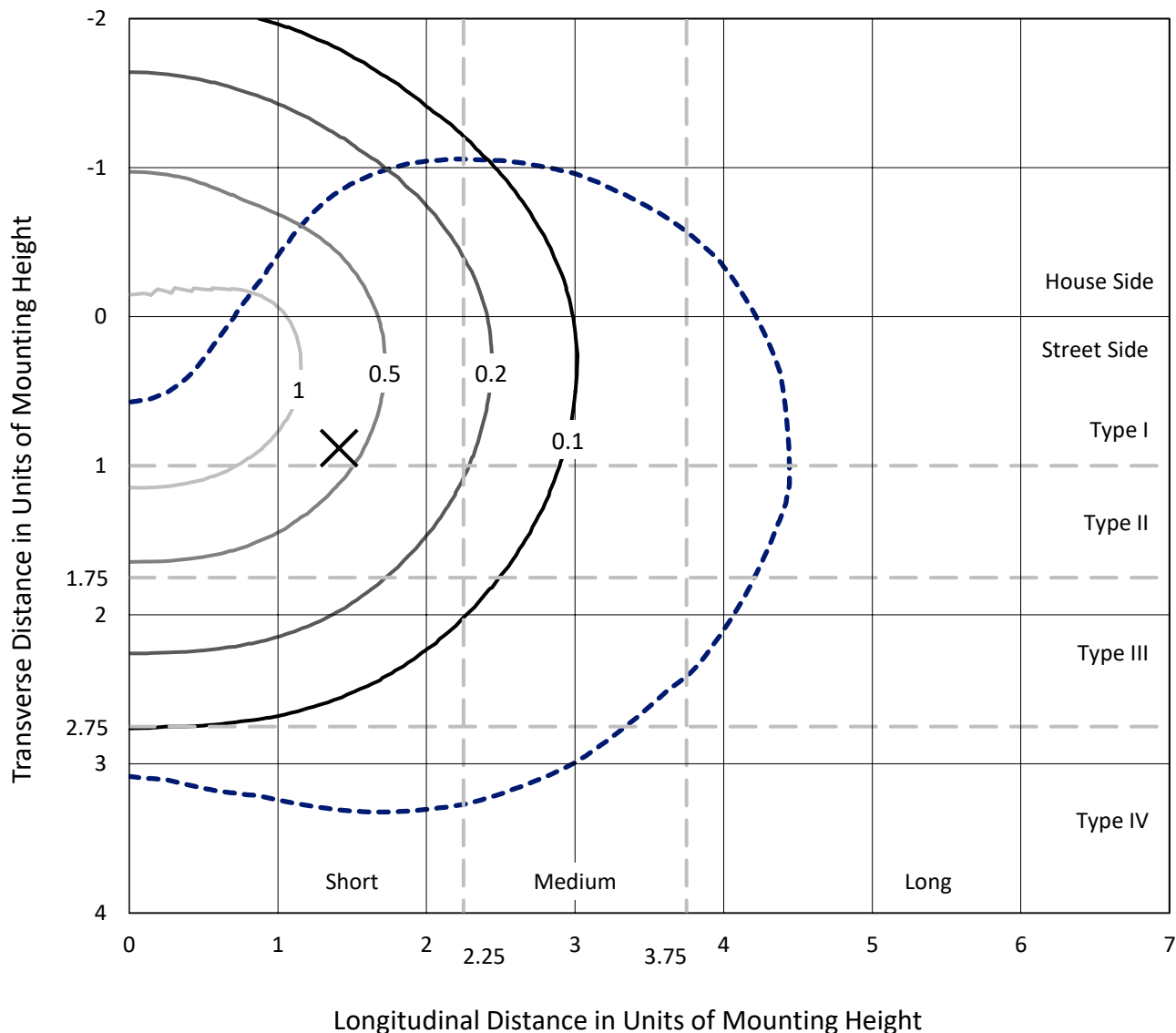
Lumens per Lamp: N/A
Luminaire Lumens: 2825.4 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 29
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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

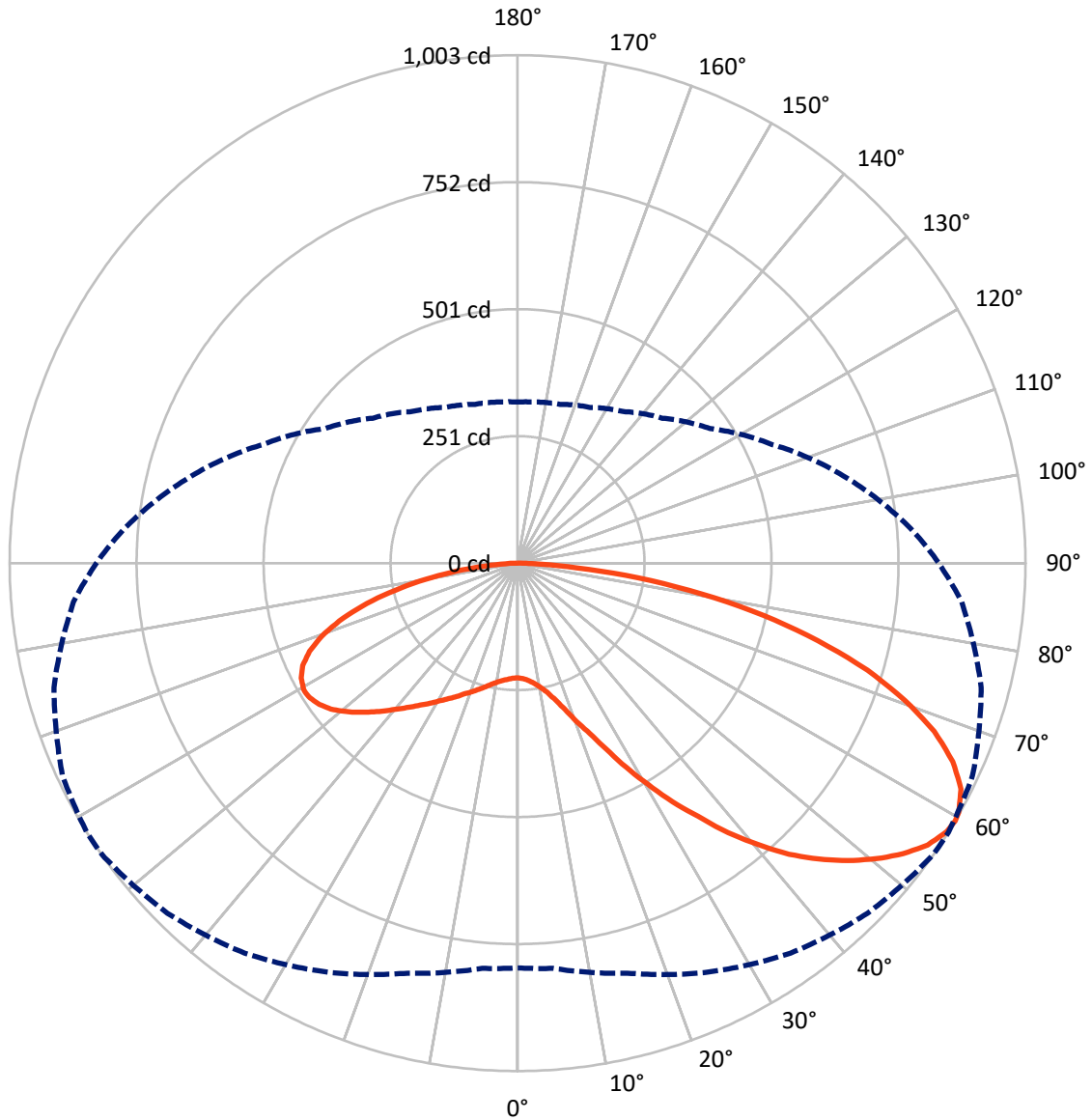
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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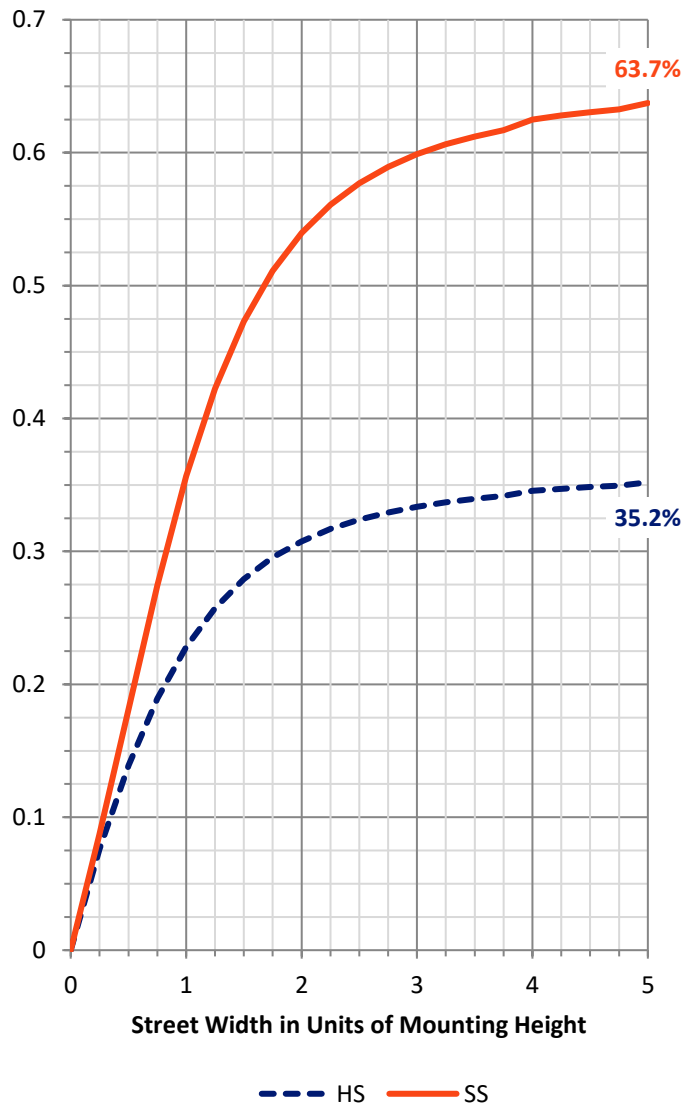
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1007.7	0.0	1007.7
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	1817.8	0.0	1817.8
	% Fixture	64.3	0.0	64.3
Total	Lumens	2825.4	0.0	2825.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.5	0.8
10°-20°	76.6	2.7
20°-30°	161.8	5.7
30°-40°	297.7	10.5
40°-50°	464.0	16.4
50°-60°	609.7	21.6
60°-70°	638.9	22.6
70°-80°	443.0	15.7
80°-90°	111.2	3.9
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°	2825.4	100.0
0°-180°	2825.4	100.0



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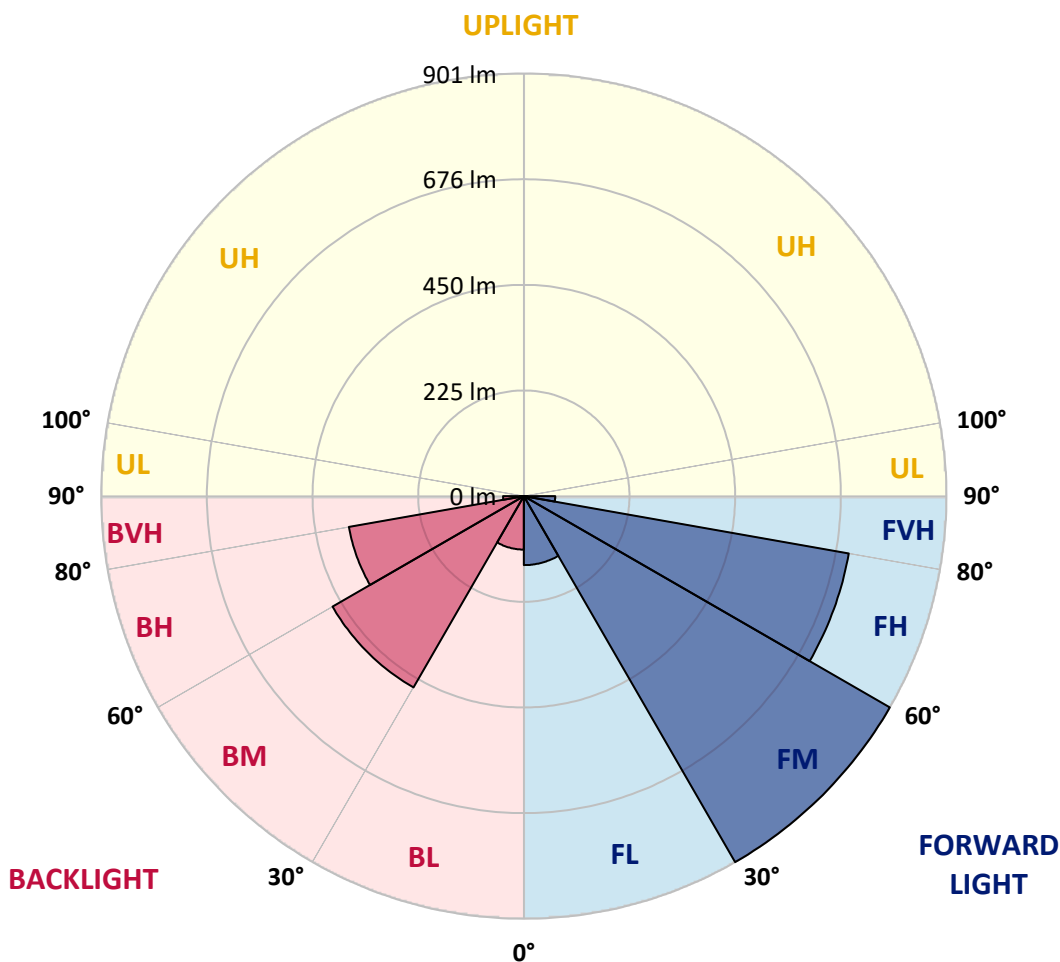
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	147.0	5.2			
FM (30°-60°)	900.7	31.9			
FH (60°-80°)	703.3	24.9			G1/1800
FVH (80°-90°)	66.8	2.4			G1/100
BL (0°-30°)	113.9	4.0	B1/500		
BM (30°-60°)	470.8	16.7	B1/1000		
BH (60°-80°)	378.6	13.4	B1/500		G1/500
BVH (80°-90°)	44.4	1.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5
2.5°	229.7	229.7	229.7	229.0	229.0	229.0	228.4	228.4	228.4	227.8	227.1
5°	234.8	234.8	234.1	234.8	234.1	233.5	232.9	232.9	232.9	232.2	231.6
7.5°	241.8	242.4	241.8	242.4	241.8	241.1	239.9	239.9	239.2	238.0	236.7
10°	252.6	252.6	252.6	252.0	251.3	250.7	250.0	249.4	248.8	246.9	245.0
12.5°	265.9	265.9	265.9	264.7	264.7	263.4	262.8	262.1	260.9	258.3	255.8
15°	282.5	281.9	283.8	283.8	283.1	283.1	281.2	279.9	278.7	274.9	269.1
17.5°	304.8	304.1	306.0	307.3	307.3	307.9	304.8	303.5	299.0	293.9	286.3
20°	334.7	333.4	335.3	336.6	335.3	336.6	333.4	334.0	327.7	318.8	306.7
22.5°	367.1	367.1	369.0	369.0	369.7	370.9	367.1	365.2	360.1	347.4	332.1
25°	407.2	410.4	410.4	410.4	412.9	413.6	409.7	406.6	399.6	382.4	361.4
27.5°	456.2	455.5	454.9	458.7	458.7	460.0	457.5	456.2	447.9	426.9	395.1
30°	508.4	504.5	507.1	508.4	510.9	512.8	510.3	506.4	496.3	473.4	433.9
32.5°	556.1	558.6	562.4	563.7	567.5	568.2	561.8	561.8	551.6	522.4	481.6
35°	610.2	610.2	620.3	624.8	624.8	628.6	619.1	614.0	607.0	576.4	524.9
37.5°	657.2	658.5	666.8	677.0	678.2	684.0	677.0	675.1	662.3	631.2	573.9
40°	701.1	702.4	712.6	724.7	731.7	740.6	733.6	730.4	717.0	681.4	622.9
42.5°	735.5	738.0	750.8	768.6	780.0	790.8	787.7	785.8	767.3	729.8	668.1
45°	761.6	766.0	783.8	804.8	820.8	836.7	837.3	833.5	816.3	774.3	712.0
47.5°	782.6	787.7	807.4	834.1	858.3	878.0	881.8	877.4	861.5	817.6	751.4
50°	799.8	802.3	824.6	858.9	888.8	913.6	921.3	917.5	903.5	853.8	785.8
52.5°	808.7	812.5	837.9	877.4	913.6	943.5	955.0	953.1	936.5	886.9	816.3
55°	813.1	816.9	846.8	892.0	932.7	967.7	981.7	982.4	966.5	916.8	844.9
57.5°	808.0	813.1	845.6	895.8	941.0	978.5	1000.2	999.5	986.8	939.7	869.1
59°	799.1	802.9	837.9	890.7	939.7	977.3	1002.1	1002.7	991.3	947.4	879.9
60°	788.9	793.4	829.0	884.4	934.6	972.8	998.9	1000.2	990.6	949.3	884.4
62.5°	753.9	759.7	799.1	858.3	913.0	949.3	980.4	982.4	977.3	944.2	887.6
65°	705.0	710.0	752.7	815.7	872.9	910.5	939.7	944.2	943.5	921.3	874.8
67.5°	645.1	645.8	685.9	754.6	814.4	851.3	879.3	886.9	892.6	878.0	837.3
70°	573.3	572.6	611.4	679.5	739.3	778.1	806.1	811.2	825.8	814.4	781.3
72.5°	484.2	491.8	528.1	585.3	644.5	687.8	712.6	722.1	730.4	733.0	705.6
75°	400.2	408.5	437.1	490.5	541.4	581.5	608.2	612.7	628.0	631.8	606.3
77.5°	320.0	320.7	341.7	384.3	430.7	463.8	485.5	496.9	505.2	512.8	486.1
80°	224.6	227.8	242.4	272.9	309.2	344.2	362.0	369.7	375.4	380.5	371.6
82.5°	140.6	141.9	151.4	169.9	194.7	214.4	232.9	239.2	240.5	252.0	250.7
85°	66.8	67.4	73.8	82.7	93.5	109.4	116.4	116.4	125.3	133.6	133.6
87.5°	8.9	8.9	10.8	12.1	15.3	19.7	27.4	28.0	33.1	36.9	40.1
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°	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5	226.5
2.5°	227.1	227.1	227.1	227.1	227.1	226.5	227.1	227.1	227.1	227.1	227.1
5°	231.6	231.0	230.3	229.7	229.7	229.0	229.0	229.0	229.0	229.0	229.0
7.5°	236.0	235.4	234.8	233.5	232.9	232.2	232.2	231.6	231.6	231.6	231.6
10°	243.7	243.0	240.5	238.6	237.3	236.7	236.0	235.4	234.8	234.8	234.8
12.5°	253.9	252.6	248.1	245.6	243.7	242.4	241.1	240.5	239.9	239.2	239.2
15°	266.6	263.4	257.7	253.9	251.3	249.4	247.5	246.2	245.6	245.0	245.0
17.5°	281.9	278.0	270.4	263.4	259.0	255.8	253.2	251.3	250.7	250.7	250.7
20°	300.9	294.6	283.8	274.2	267.2	262.8	259.0	257.0	256.4	255.8	255.1
22.5°	323.2	314.9	299.0	284.4	275.5	269.1	264.7	262.1	260.2	259.6	259.6
25°	348.7	336.6	315.6	297.8	285.7	276.8	271.0	267.9	264.7	263.4	263.4
27.5°	379.2	363.3	335.3	311.8	295.2	284.4	278.0	273.6	270.4	267.9	266.6
30°	412.3	394.5	356.9	327.0	306.0	293.9	286.3	281.2	276.8	272.3	271.7
32.5°	454.3	428.8	383.0	344.2	318.8	303.5	294.6	288.2	282.5	278.0	276.8
35°	496.9	466.4	410.4	362.0	330.8	312.4	301.6	294.6	288.9	283.8	283.1
37.5°	540.8	508.4	440.3	383.0	344.8	322.6	309.2	301.6	294.6	289.5	288.9
40°	586.6	548.4	470.8	404.6	359.5	332.8	317.5	307.9	300.3	295.9	295.2
42.5°	629.9	588.5	503.9	430.1	376.7	343.6	325.8	315.6	306.0	301.6	300.9
45°	671.2	626.7	537.0	453.6	393.8	355.0	334.0	321.9	311.8	307.3	306.7
47.5°	708.8	664.2	567.5	479.1	411.6	367.7	342.9	328.3	316.8	312.4	312.4
50°	742.5	696.0	597.4	502.6	428.2	380.5	350.6	334.0	322.6	318.1	317.5
52.5°	774.3	724.0	623.5	523.0	444.1	391.9	358.2	338.5	326.4	321.3	320.7
55°	799.8	749.5	645.1	539.5	454.9	399.6	363.3	341.0	327.7	323.2	322.6
57.5°	822.0	770.5	660.4	551.0	461.9	404.0	365.8	341.0	327.0	321.9	321.3
59°	831.6	779.4	665.5	554.2	463.2	404.6	365.2	339.1	324.5	319.4	318.1
60°	836.7	783.2	667.4	554.8	462.5	403.4	364.6	337.2	321.9	316.2	316.2
62.5°	841.7	786.4	664.9	549.7	455.5	396.4	358.2	329.6	312.4	306.0	306.0
65°	830.9	774.9	650.2	535.7	441.6	384.3	346.1	316.8	297.8	291.4	291.4
67.5°	799.1	746.9	623.5	509.6	418.6	363.3	326.4	296.5	278.7	271.7	269.8
70°	745.0	701.1	581.5	472.1	387.5	336.6	301.6	272.9	254.5	247.5	245.0
72.5°	672.5	629.2	525.5	426.3	346.1	301.6	271.0	243.7	223.3	216.3	217.0
75°	572.6	542.1	453.0	368.4	298.4	257.0	231.6	208.7	191.5	185.8	186.4
77.5°	464.5	439.0	367.1	300.3	243.7	211.9	190.2	171.8	160.3	157.2	155.2
80°	355.7	330.8	275.5	224.0	185.1	162.9	148.2	135.5	126.6	122.2	123.4
82.5°	238.6	223.3	182.6	148.2	126.0	110.1	105.0	96.7	93.5	91.0	92.9
85°	128.5	115.2	95.4	79.5	69.4	64.9	66.2	65.5	63.0	62.4	64.3
87.5°	42.0	36.3	28.0	23.5	24.2	21.6	21.6	20.4	18.5	17.8	19.1
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)