

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: P472345

Luminaire Tested: **CCW-VA-1-840-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472345
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-840-U-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2727.1 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

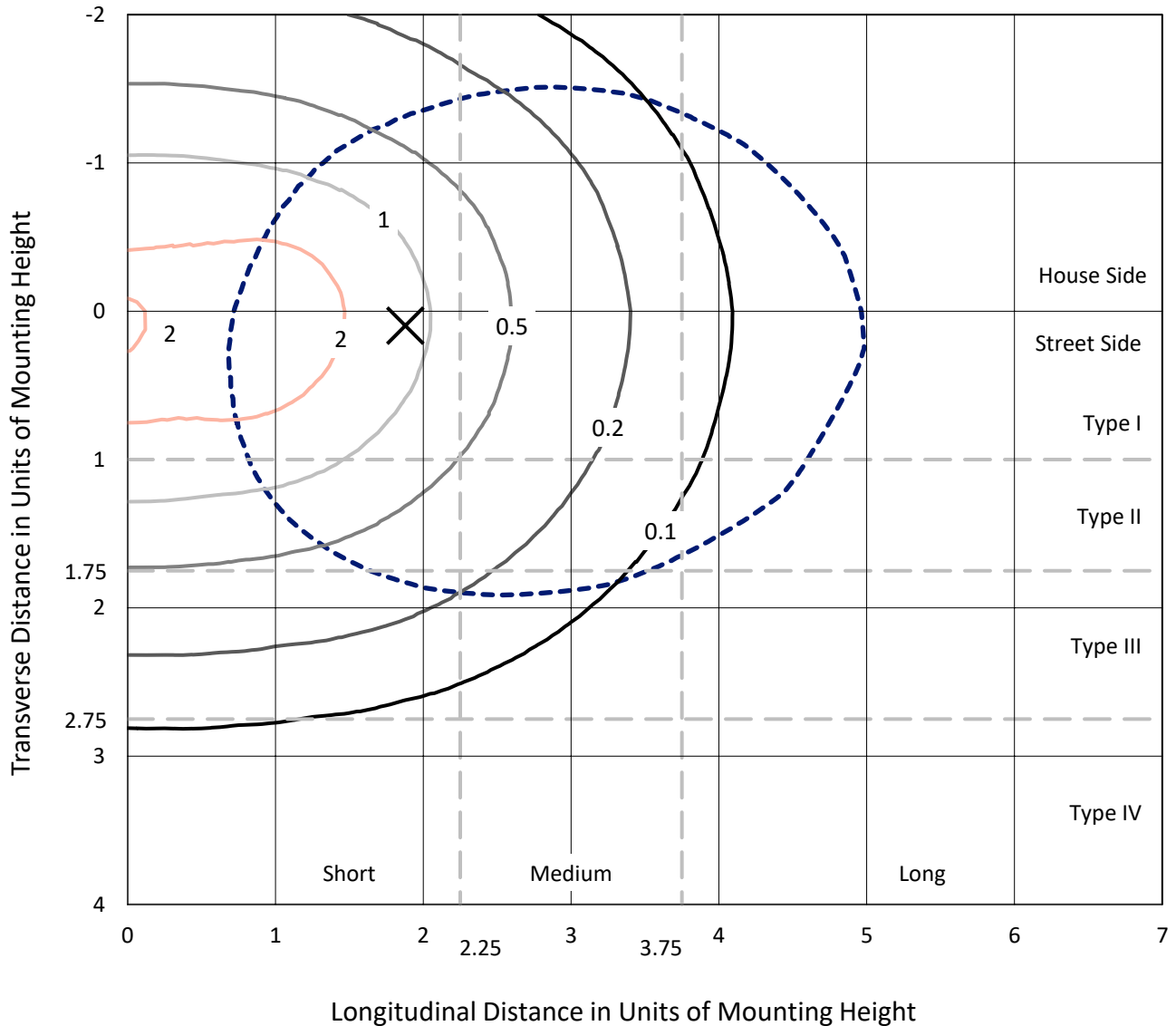
Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

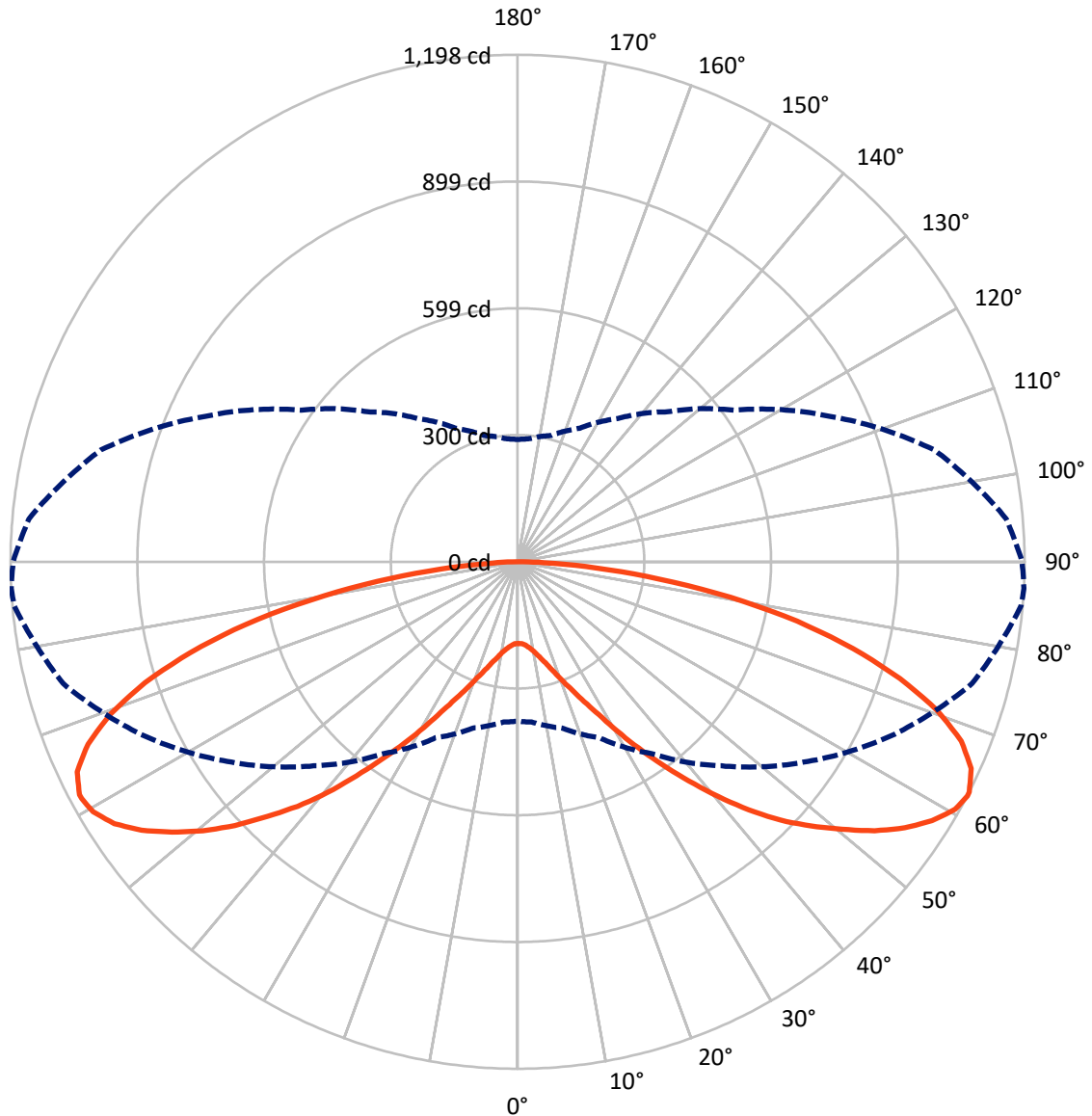
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 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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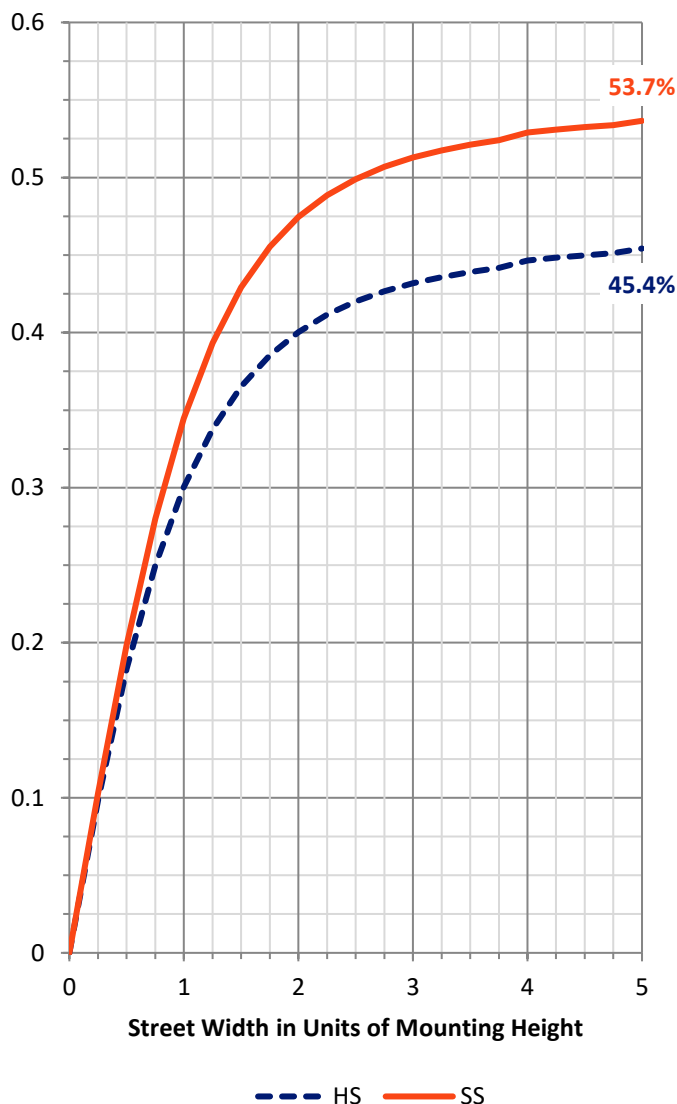
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1255.6	0.0	1255.6
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	1471.5	0.0	1471.5
	% Fixture	54.0	0.0	54.0
Total	Lumens	2727.1	0.0	2727.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.4	0.7
10°-20°	68.5	2.5
20°-30°	146.5	5.4
30°-40°	270.0	9.9
40°-50°	430.6	15.8
50°-60°	585.6	21.5
60°-70°	634.5	23.3
70°-80°	453.4	16.6
80°-90°	118.5	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°	2727.1	100.0
0°-180°	2727.1	100.0

Coefficient of Utilization

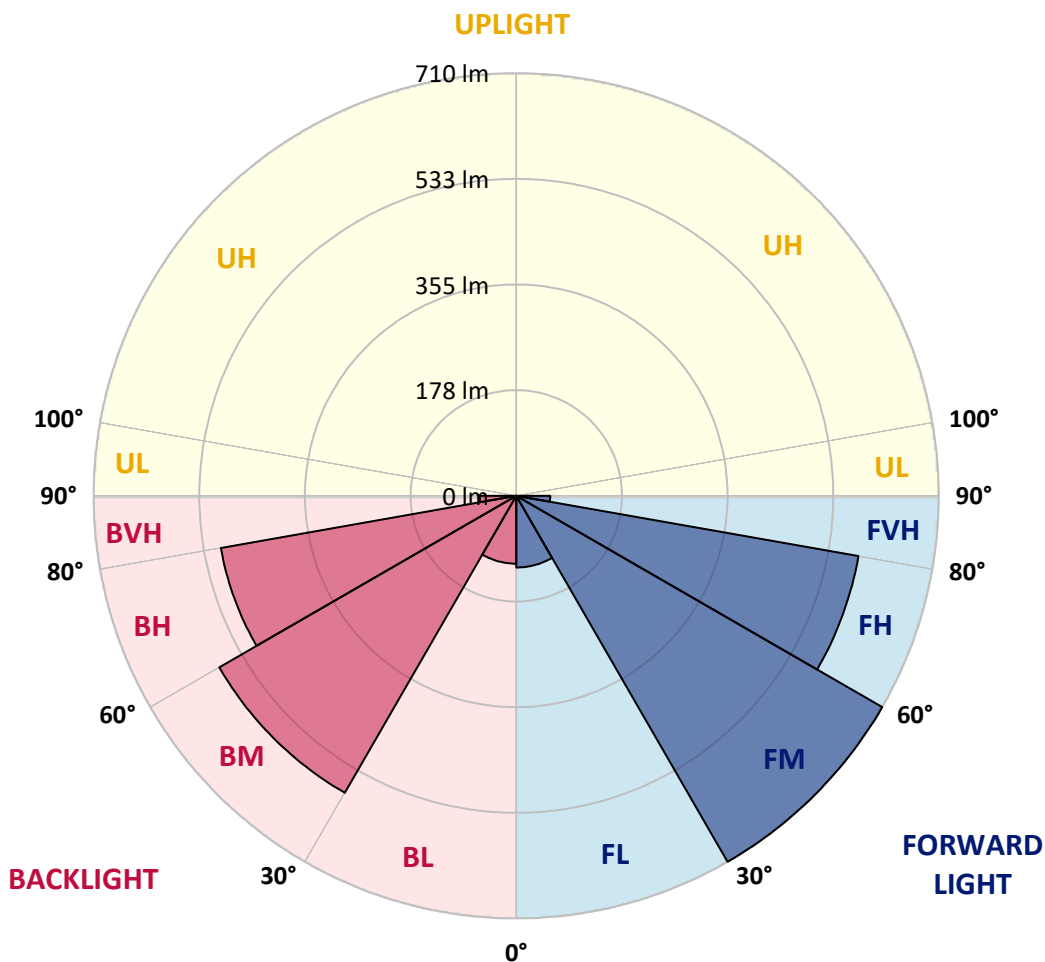


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	120.4	4.4			
FM (30°-60°)	710.1	26.0			
FH (60°-80°)	583.9	21.4			G0/660
FVH (80°-90°)	57.1	2.1			G1/100
BL (0°-30°)	114.0	4.2	B1/500		
BM (30°-60°)	576.2	21.1	B1/1000		
BH (60°-80°)	504.0	18.5	B2/1000		G2/1000
BVH (80°-90°)	61.4	2.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	193.0	193.0	193.0	193.0	193.0	193.0	193.0	193.0	193.0	193.0	193.0
2.5°	193.4	193.4	193.4	193.4	193.4	193.4	193.4	193.4	193.4	193.9	193.9
5°	194.8	194.3	194.3	194.8	195.2	195.6	196.5	197.0	197.8	198.7	198.3
7.5°	198.7	198.7	198.7	199.1	200.5	201.3	202.7	204.0	205.3	206.2	205.7
10°	204.9	204.9	204.9	205.7	207.1	209.7	211.9	214.1	215.4	216.3	216.7
12.5°	211.5	211.5	212.3	214.1	216.7	220.3	224.2	227.3	229.5	230.4	230.8
15°	220.7	221.1	222.9	224.6	228.2	233.4	240.0	244.4	246.6	248.4	247.9
17.5°	234.8	234.3	235.6	239.6	243.6	251.0	258.9	266.4	270.8	270.8	270.8
20°	250.6	250.1	251.0	254.1	260.7	270.8	283.1	293.2	298.1	297.2	298.1
22.5°	268.2	268.2	269.0	271.7	278.3	292.8	309.9	324.9	331.5	329.3	328.4
25°	287.5	287.5	288.8	291.0	300.3	317.8	340.7	362.2	368.8	366.6	365.8
27.5°	309.9	308.2	310.8	313.0	324.4	347.7	377.6	404.9	419.4	411.9	409.3
30°	333.7	332.4	332.8	337.2	350.4	380.3	415.9	452.4	472.6	467.8	463.8
32.5°	354.3	355.2	356.5	364.0	379.0	415.0	456.3	504.2	527.1	525.8	524.9
35°	377.6	377.6	380.3	387.3	409.3	451.9	502.0	556.1	590.0	591.3	588.7
37.5°	396.1	396.1	400.1	409.3	435.2	485.8	547.3	611.1	652.0	659.0	656.8
40°	412.4	411.5	415.9	429.5	459.8	521.8	591.7	665.6	720.5	732.4	729.3
42.5°	422.0	422.9	429.1	446.2	483.6	553.5	635.3	717.0	781.2	801.4	801.4
45°	429.1	430.0	439.2	459.4	505.1	584.7	674.8	769.8	840.6	870.0	871.3
47.5°	432.1	433.5	444.9	469.5	523.2	613.3	713.1	817.3	893.8	935.5	932.9
50°	432.1	433.9	447.5	477.0	539.4	637.5	749.1	862.5	947.8	994.4	994.0
52.5°	429.5	431.7	448.4	482.7	553.0	660.8	781.2	901.2	999.7	1054.7	1056.4
55°	424.2	426.9	446.2	486.2	563.6	679.2	807.1	937.3	1044.5	1106.5	1110.5
57.5°	413.7	416.3	438.3	483.1	567.6	688.9	826.1	962.8	1081.0	1153.6	1154.5
60°	396.1	399.2	422.9	473.0	563.6	689.3	830.9	974.2	1105.7	1185.2	1188.3
62°	376.8	380.3	407.1	459.0	553.5	682.3	825.6	973.8	1112.2	1194.5	1198.4
62.5°	371.9	375.0	402.3	454.1	549.5	678.8	822.5	971.6	1111.4	1194.9	1198.0
65°	342.0	345.1	372.8	427.8	525.3	657.2	800.1	952.2	1095.5	1177.3	1178.2
67.5°	309.1	312.1	339.8	391.7	490.6	621.2	762.3	914.0	1053.3	1124.1	1130.7
70°	270.8	275.2	300.7	352.1	444.9	569.3	702.5	853.3	986.1	1046.3	1052.5
72.5°	233.0	236.1	256.3	301.6	385.5	501.2	625.1	761.4	882.3	939.5	944.7
75°	189.0	191.7	211.5	248.8	319.2	417.6	534.6	653.7	763.6	815.1	819.0
77.5°	149.0	149.9	164.0	193.9	247.9	327.5	424.2	518.3	618.1	664.7	675.3
80°	105.1	109.5	119.1	139.8	174.1	234.8	304.7	385.1	455.0	507.3	510.8
82.5°	68.1	69.0	75.2	82.6	107.3	148.2	193.9	243.6	306.0	339.8	337.2
85°	35.6	35.6	37.8	40.0	48.4	66.4	93.6	128.4	164.9	190.4	186.8
87.5°	6.2	5.7	6.2	5.7	7.5	10.6	19.8	32.1	48.4	57.2	62.9
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°	193.0	193.0	193.0	193.0	193.0	193.0	193.0	193.0	193.0	193.0	193.0
2.5°	193.9	193.9	194.3	195.2	195.2	195.6	196.1	196.1	196.5	197.0	197.0
5°	199.1	199.1	199.6	200.5	200.9	200.9	201.3	201.8	201.8	201.8	202.2
7.5°	206.2	206.6	207.1	207.5	207.9	207.9	209.3	208.8	208.8	208.8	208.8
10°	216.3	217.2	217.2	217.2	217.2	216.7	217.2	216.7	215.9	215.9	215.4
12.5°	231.2	231.2	230.4	229.5	228.2	227.7	227.3	226.0	224.2	223.3	223.3
15°	248.4	247.5	245.7	244.0	241.8	240.0	237.0	235.2	233.0	232.1	232.1
17.5°	270.4	269.0	264.2	260.7	255.4	251.5	247.9	244.4	241.8	240.9	240.5
20°	295.4	292.3	285.3	277.4	270.4	264.2	257.6	253.2	250.6	248.4	247.9
22.5°	327.1	322.7	310.4	298.1	285.3	276.5	268.2	262.0	257.2	255.0	254.1
25°	361.4	354.8	338.9	320.5	302.9	289.3	278.7	270.4	264.7	261.1	260.3
27.5°	404.9	395.2	371.9	344.2	320.9	303.8	289.3	279.6	272.1	266.9	266.0
30°	455.9	445.8	407.1	370.6	341.1	317.0	301.1	288.4	279.2	273.0	271.7
32.5°	516.6	498.1	453.7	402.3	361.8	332.4	312.1	297.2	285.8	278.7	277.0
35°	578.1	559.2	500.7	435.7	383.8	348.2	324.0	306.0	293.2	284.4	283.6
37.5°	647.1	624.3	555.7	473.5	407.5	364.9	335.0	314.3	298.9	289.7	288.8
40°	721.4	698.1	614.6	517.0	435.7	381.2	345.5	322.2	305.1	295.0	293.7
42.5°	794.4	766.7	674.4	560.5	464.2	399.2	357.9	330.6	310.4	299.8	298.1
45°	857.7	833.5	735.0	610.6	497.2	417.6	370.2	338.5	316.1	304.2	302.5
47.5°	929.4	903.4	801.4	656.8	528.9	438.7	382.0	345.5	320.9	308.2	306.9
50°	992.7	969.4	860.3	699.4	559.2	458.5	393.0	352.1	324.9	311.3	309.5
52.5°	1050.3	1029.6	914.4	739.4	585.1	477.0	403.1	357.0	327.5	312.6	310.4
55°	1108.3	1081.5	961.5	774.6	605.8	491.5	411.5	359.2	327.1	311.7	309.5
57.5°	1151.8	1126.3	995.7	799.7	621.2	501.2	416.3	358.7	324.4	307.7	305.1
60°	1181.3	1153.1	1016.0	812.0	626.5	504.2	416.3	354.8	317.8	299.8	297.2
62°	1192.3	1159.7	1019.9	813.7	624.3	501.2	413.2	348.2	309.1	291.5	288.8
62.5°	1192.7	1159.3	1018.6	812.4	622.9	499.9	411.5	346.0	306.9	288.8	286.2
65°	1173.4	1139.9	1002.8	798.8	608.0	488.0	399.2	333.2	291.5	273.9	271.2
67.5°	1118.0	1092.5	965.0	767.1	582.5	466.0	381.2	314.8	273.4	255.0	253.7
70°	1041.0	1017.7	903.4	719.2	545.6	434.3	354.3	290.2	250.6	233.9	230.8
72.5°	944.3	914.0	815.9	655.0	492.4	390.8	319.2	259.4	224.2	209.3	207.5
75°	824.3	787.8	706.0	570.2	428.6	338.5	278.3	225.1	193.9	181.1	182.4
77.5°	671.3	654.2	570.6	454.6	349.1	280.0	228.2	190.8	164.0	153.4	152.5
80°	506.9	490.6	432.1	345.1	263.8	211.9	176.7	150.4	131.9	122.7	122.2
82.5°	343.8	328.4	284.0	231.7	179.8	149.9	127.9	110.8	99.4	95.0	95.0
85°	189.0	175.8	150.4	125.3	101.6	85.7	82.6	73.9	70.8	69.9	70.8
87.5°	58.9	58.5	49.7	40.9	35.6	36.0	32.5	33.4	31.7	31.2	33.4
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)