

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: P472310

Luminaire Tested: **CCW-VA-2-727-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472310
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-727-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: 3488.8 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

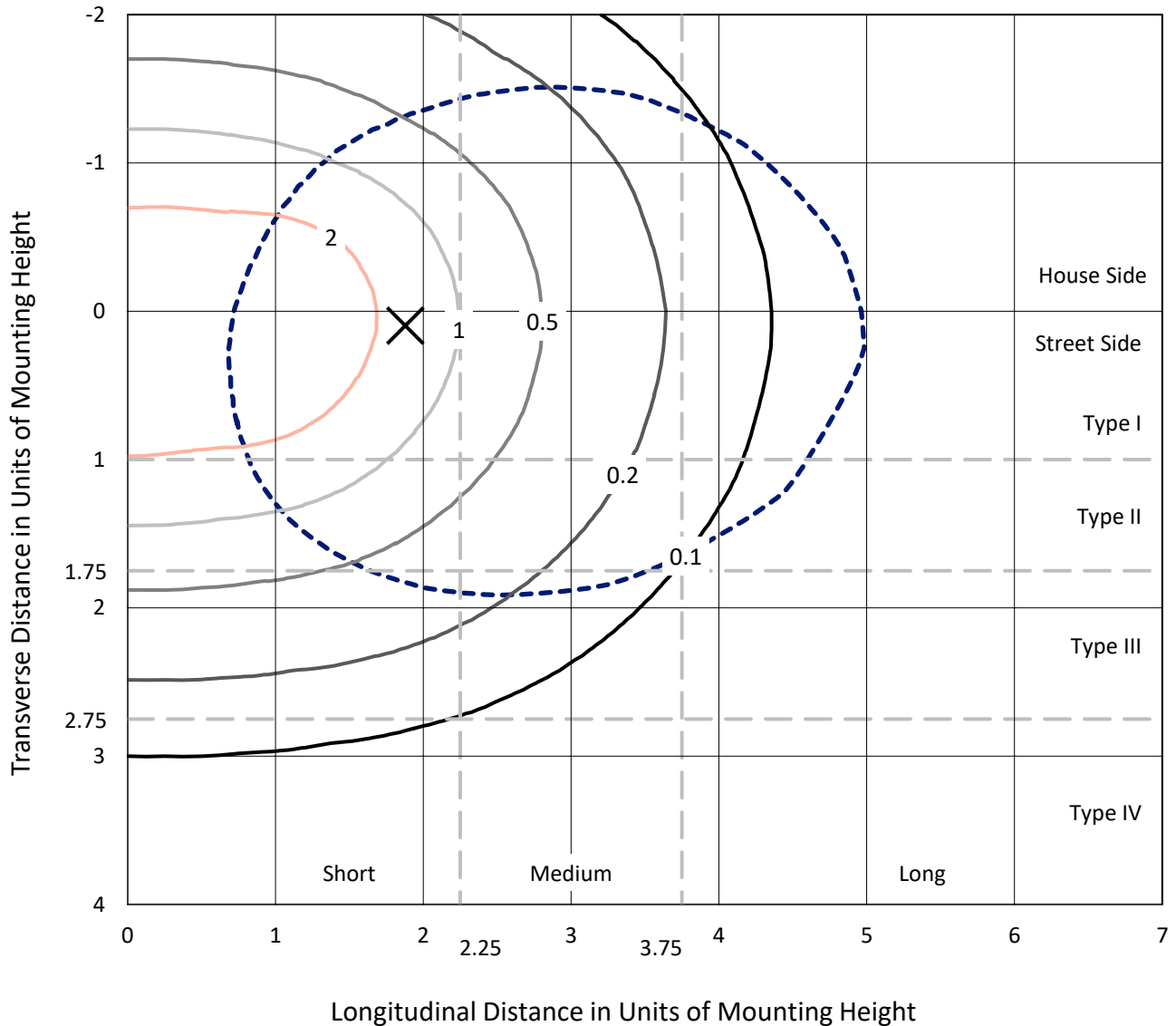
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

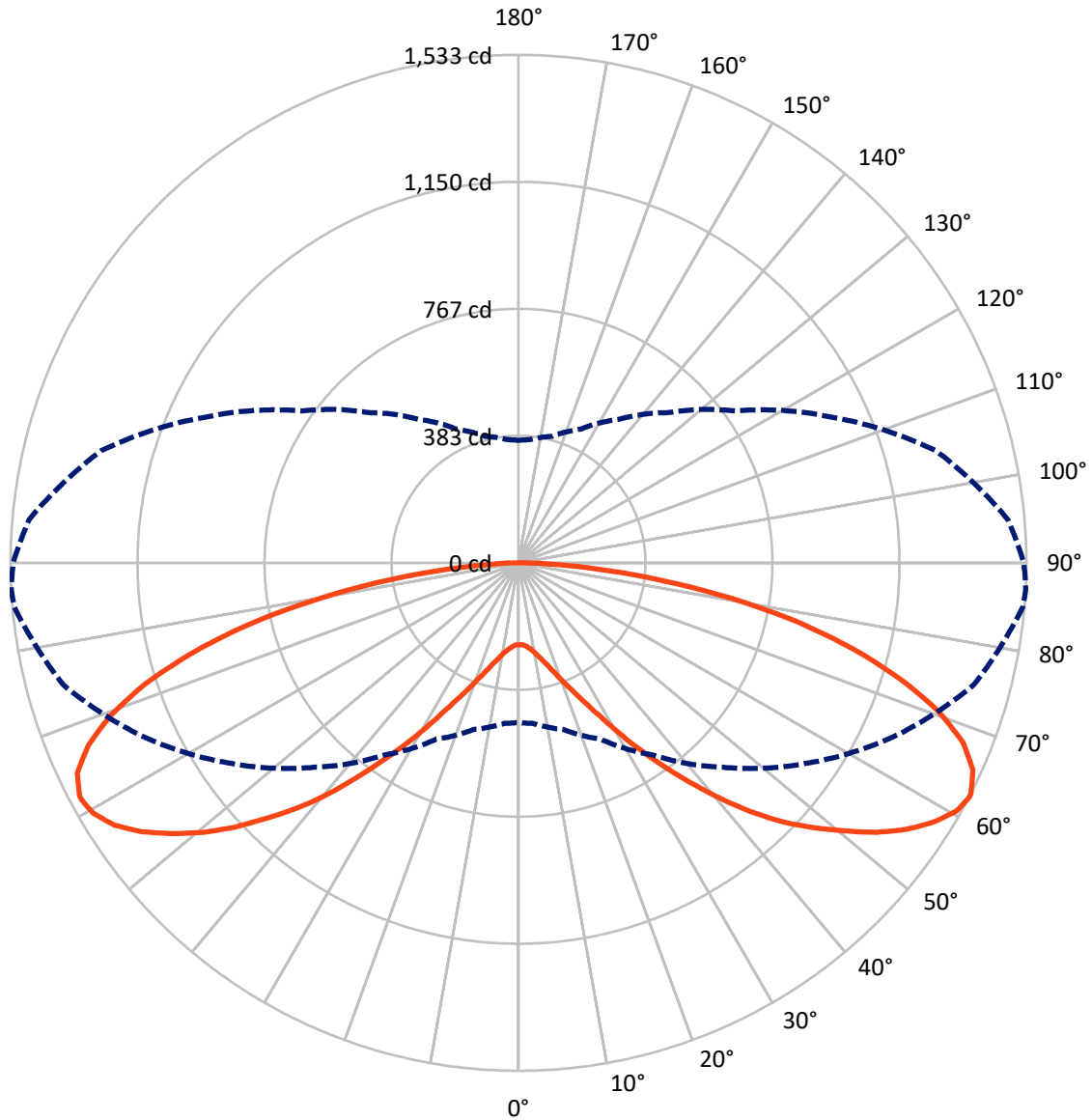
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.2 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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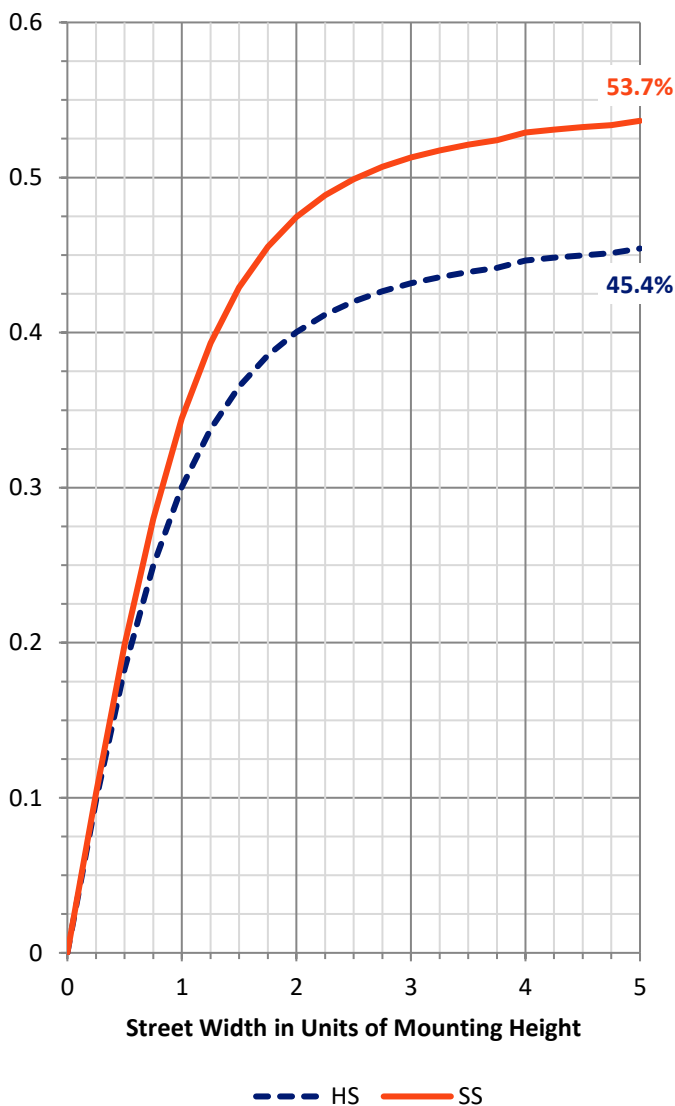
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1606.3	0.0	1606.3
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	1882.5	0.0	1882.5
	% Fixture	54.0	0.0	54.0
Total	Lumens	3488.8	0.0	3488.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.9	0.7
10°-20°	87.7	2.5
20°-30°	187.4	5.4
30°-40°	345.5	9.9
40°-50°	550.9	15.8
50°-60°	749.2	21.5
60°-70°	811.7	23.3
70°-80°	580.0	16.6
80°-90°	151.6	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°	3488.8	100.0
0°-180°	3488.8	100.0

Coefficient of Utilization

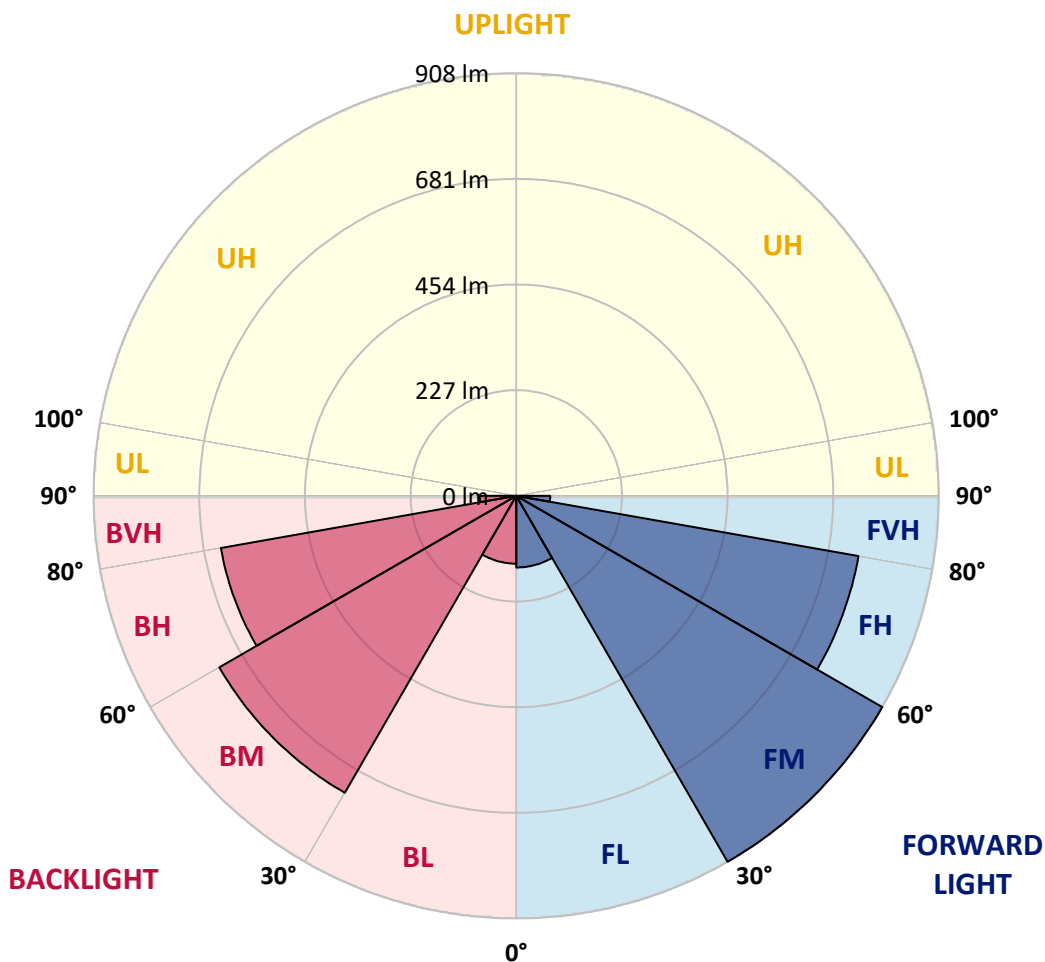


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	154.1	4.4			
FM (30°-60°)	908.4	26.0			
FH (60°-80°)	747.0	21.4			G1/1800
FVH (80°-90°)	73.0	2.1			G1/100
BL (0°-30°)	145.9	4.2	B1/500		
BM (30°-60°)	737.1	21.1	B1/1000		
BH (60°-80°)	644.7	18.5	B2/1000		G2/1000
BVH (80°-90°)	78.6	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°	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9
2.5°	247.5	247.5	247.5	247.5	247.5	247.5	247.5	247.5	247.5	248.0	248.0
5°	249.2	248.6	248.6	249.2	249.7	250.3	251.4	252.0	253.1	254.2	253.7
7.5°	254.2	254.2	254.2	254.8	256.5	257.6	259.3	261.0	262.7	263.8	263.2
10°	262.1	262.1	262.1	263.2	264.9	268.3	271.1	273.9	275.6	276.7	277.3
12.5°	270.5	270.5	271.7	273.9	277.3	281.8	286.8	290.8	293.6	294.7	295.3
15°	282.3	282.9	285.2	287.4	291.9	298.6	307.1	312.7	315.5	317.8	317.2
17.5°	300.3	299.8	301.5	306.5	311.6	321.1	331.3	340.8	346.5	346.5	346.5
20°	320.6	320.0	321.1	325.1	333.5	346.5	362.2	375.1	381.3	380.2	381.3
22.5°	343.1	343.1	344.2	347.6	356.0	374.6	396.5	415.6	424.1	421.3	420.1
25°	367.8	367.8	369.5	372.3	384.1	406.6	435.9	463.4	471.9	469.1	467.9
27.5°	396.5	394.3	397.6	400.4	415.1	444.9	483.1	518.0	536.6	527.0	523.6
30°	426.9	425.2	425.8	431.4	448.3	486.5	532.1	578.7	604.6	598.4	593.4
32.5°	453.3	454.4	456.1	465.7	484.8	530.9	583.8	645.1	674.4	672.7	671.5
35°	483.1	483.1	486.5	495.5	523.6	578.2	642.3	711.5	754.8	756.5	753.1
37.5°	506.7	506.7	511.8	523.6	556.8	621.5	700.2	781.8	834.1	843.1	840.3
40°	527.6	526.4	532.1	549.5	588.3	667.6	757.0	851.5	921.8	937.0	933.1
42.5°	539.9	541.1	548.9	570.9	618.7	708.1	812.7	917.3	999.4	1025.3	1025.3
45°	548.9	550.1	561.9	587.7	646.2	748.0	863.3	984.8	1075.4	1113.0	1114.7
47.5°	552.9	554.6	569.2	600.7	669.3	784.6	912.3	1045.6	1143.4	1196.8	1193.5
50°	552.9	555.1	572.6	610.2	690.1	815.5	958.4	1103.5	1212.6	1272.2	1271.6
52.5°	549.5	552.3	573.7	617.5	707.5	845.3	999.4	1153.0	1279.0	1349.3	1351.5
55°	542.7	546.1	570.9	622.0	721.0	869.0	1032.6	1199.1	1336.3	1415.6	1420.7
57.5°	529.2	532.6	560.7	618.1	726.1	881.3	1056.8	1231.7	1383.0	1475.8	1476.9
60°	506.7	510.7	541.1	605.2	721.0	881.9	1063.0	1246.3	1414.5	1516.3	1520.2
62°	482.0	486.5	520.8	587.2	708.1	872.9	1056.2	1245.8	1422.9	1528.1	1533.2
62.5°	475.8	479.8	514.6	581.0	703.0	868.4	1052.3	1243.0	1421.8	1528.7	1532.6
65°	437.6	441.5	476.9	547.2	672.1	840.8	1023.6	1218.2	1401.6	1506.2	1507.3
67.5°	395.4	399.3	434.8	501.1	627.7	794.7	975.2	1169.3	1347.6	1438.1	1446.6
70°	346.5	352.1	384.7	450.5	569.2	728.3	898.8	1091.7	1261.5	1338.6	1346.5
72.5°	298.1	302.0	327.9	385.8	493.2	641.2	799.8	974.1	1128.8	1201.9	1208.7
75°	241.8	245.2	270.5	318.3	408.3	534.3	683.9	836.3	976.9	1042.7	1047.8
77.5°	190.7	191.8	209.8	248.0	317.2	419.0	542.7	663.1	790.8	850.4	863.9
80°	134.4	140.0	152.4	178.9	222.7	300.3	389.8	492.7	582.1	649.0	653.5
82.5°	87.2	88.3	96.2	105.7	137.2	189.5	248.0	311.6	391.4	434.8	431.4
85°	45.6	45.6	48.4	51.2	61.9	84.9	119.8	164.2	210.9	243.5	239.0
87.5°	7.9	7.3	7.9	7.3	9.6	13.5	25.3	41.1	61.9	73.1	80.4
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°	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9	246.9
2.5°	248.0	248.0	248.6	249.7	249.7	250.3	250.8	250.8	251.4	252.0	252.0
5°	254.8	254.8	255.3	256.5	257.0	257.0	257.6	258.2	258.2	258.2	258.7
7.5°	263.8	264.3	264.9	265.5	266.0	266.0	267.7	267.2	267.2	267.2	267.2
10°	276.7	277.8	277.8	277.8	277.8	277.3	277.8	277.3	276.2	276.2	275.6
12.5°	295.8	295.8	294.7	293.6	291.9	291.3	290.8	289.1	286.8	285.7	285.7
15°	317.8	316.6	314.4	312.1	309.3	307.1	303.1	300.9	298.1	297.0	297.0
17.5°	345.9	344.2	338.0	333.5	326.8	321.7	317.2	312.7	309.3	308.2	307.6
20°	378.0	374.0	365.0	354.9	345.9	338.0	329.6	324.0	320.6	317.8	317.2
22.5°	418.4	412.8	397.1	381.3	365.0	353.8	343.1	335.2	329.0	326.2	325.1
25°	462.3	453.9	433.6	410.0	387.5	370.1	356.6	345.9	338.6	334.1	333.0
27.5°	518.0	505.6	475.8	440.4	410.6	388.6	370.1	357.7	348.1	341.4	340.3
30°	583.2	570.3	520.8	474.1	436.4	405.5	385.3	369.0	357.1	349.3	347.6
32.5°	660.9	637.2	580.4	514.6	462.9	425.2	399.3	380.2	365.6	356.6	354.3
35°	739.6	715.4	640.6	557.4	491.0	445.4	414.5	391.4	375.1	363.9	362.8
37.5°	827.9	798.6	710.9	605.7	521.4	466.8	428.6	402.1	382.5	370.6	369.5
40°	922.9	893.1	786.3	661.4	557.4	487.6	442.1	412.3	390.3	377.4	375.7
42.5°	1016.3	980.9	862.8	717.1	593.9	510.7	457.8	422.9	397.1	383.6	381.3
45°	1097.3	1066.4	940.4	781.2	636.1	534.3	473.6	433.1	404.4	389.2	387.0
47.5°	1189.0	1155.8	1025.3	840.3	676.6	561.3	488.7	442.1	410.6	394.3	392.6
50°	1270.0	1240.2	1100.7	894.8	715.4	586.6	502.8	450.5	415.6	398.2	395.9
52.5°	1343.6	1317.2	1169.8	946.0	748.6	610.2	515.7	456.7	419.0	399.9	397.1
55°	1417.9	1383.6	1230.0	991.0	775.0	628.8	526.4	459.5	418.4	398.8	395.9
57.5°	1473.6	1440.9	1273.9	1023.1	794.7	641.2	532.6	458.9	415.1	393.7	390.3
60°	1511.2	1475.2	1299.8	1038.8	801.5	645.1	532.6	453.9	406.6	383.6	380.2
62°	1525.3	1483.7	1304.8	1041.1	798.6	641.2	528.7	445.4	395.4	372.9	369.5
62.5°	1525.9	1483.1	1303.1	1039.4	797.0	639.5	526.4	442.6	392.6	369.5	366.1
65°	1501.1	1458.4	1282.9	1021.9	777.8	624.3	510.7	426.3	372.9	350.4	347.0
67.5°	1430.3	1397.6	1234.5	981.4	745.2	596.2	487.6	402.7	349.8	326.2	324.5
70°	1331.8	1302.0	1155.8	920.1	698.0	555.7	453.3	371.2	320.6	299.2	295.3
72.5°	1208.1	1169.3	1043.9	838.0	629.9	500.0	408.3	331.8	286.8	267.7	265.5
75°	1054.6	1007.9	903.3	729.5	548.4	433.1	356.0	288.0	248.0	231.7	233.4
77.5°	858.8	836.9	730.0	581.6	446.6	358.3	291.9	244.1	209.8	196.3	195.2
80°	648.5	627.7	552.9	441.5	337.5	271.1	226.1	192.4	168.7	156.9	156.4
82.5°	439.8	420.1	363.3	296.4	230.0	191.8	163.7	141.7	127.1	121.5	121.5
85°	241.8	225.0	192.4	160.3	129.9	109.7	105.7	94.5	90.6	89.4	90.6
87.5°	75.4	74.8	63.6	52.3	45.6	46.1	41.6	42.7	40.5	39.9	42.7
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)