

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: P472342

Luminaire Tested: **CCW-VA-2-835-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472342
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-835-U-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3535 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

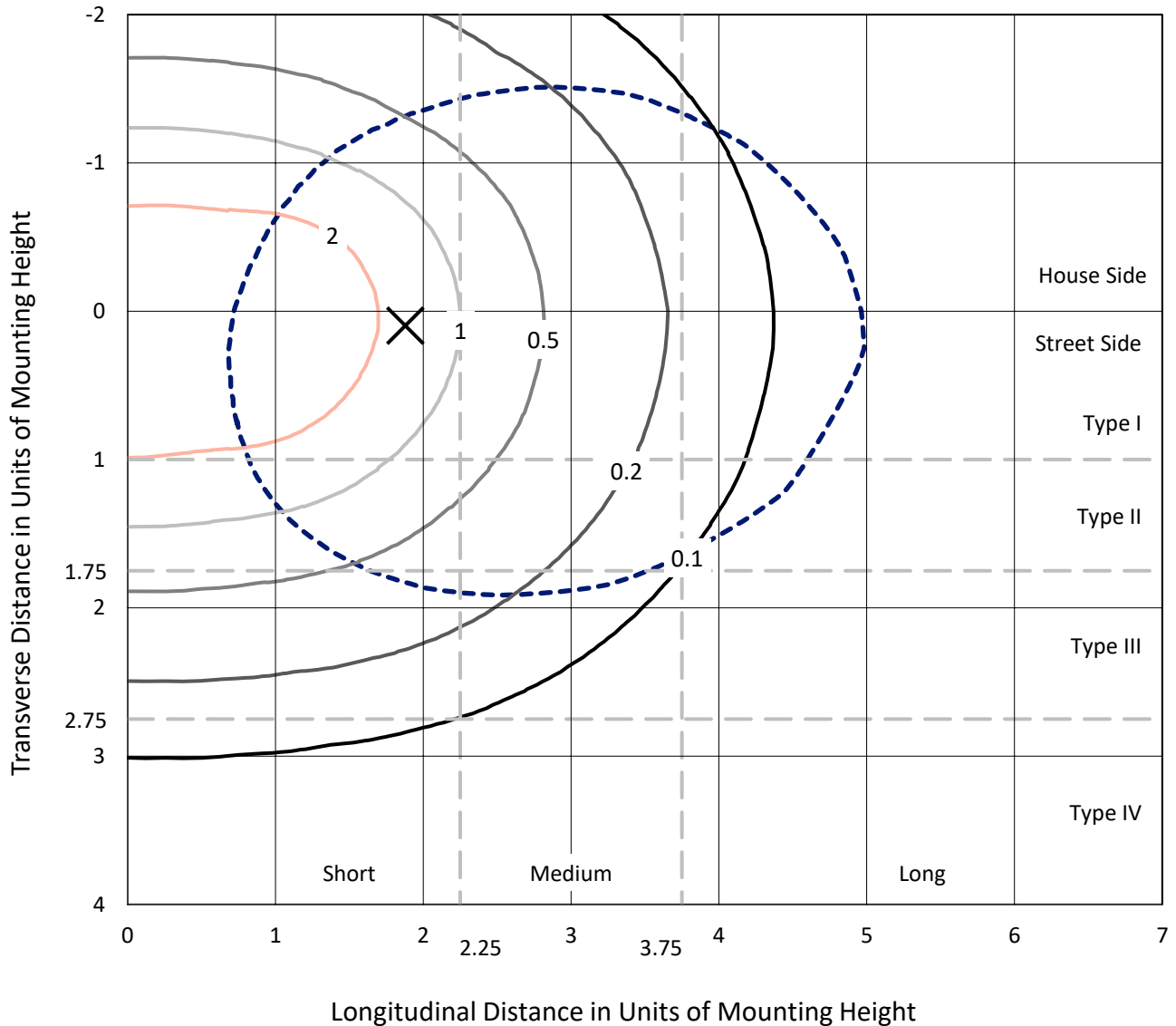
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

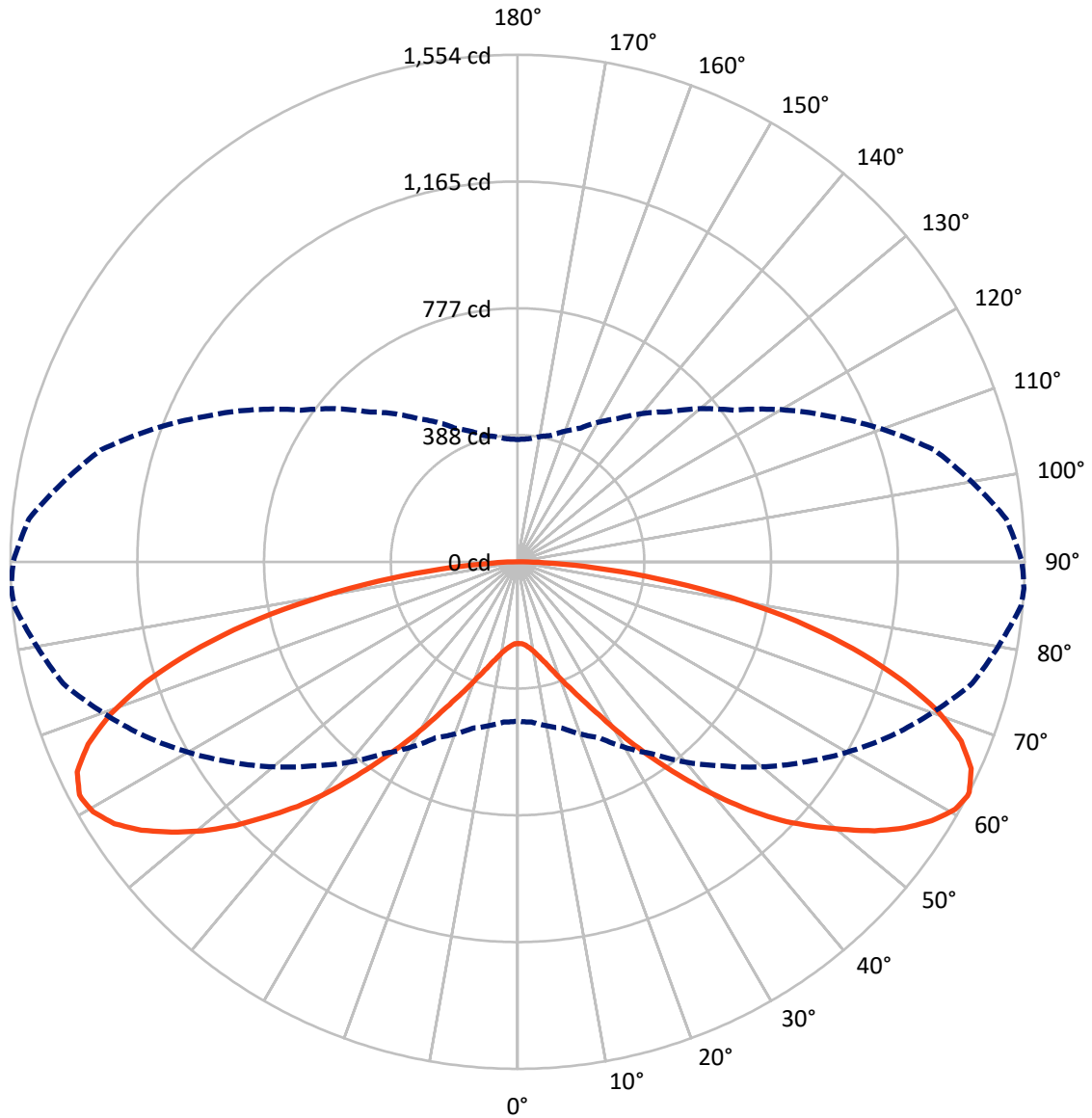
× Max cd
 - - - 1/2 Max cd



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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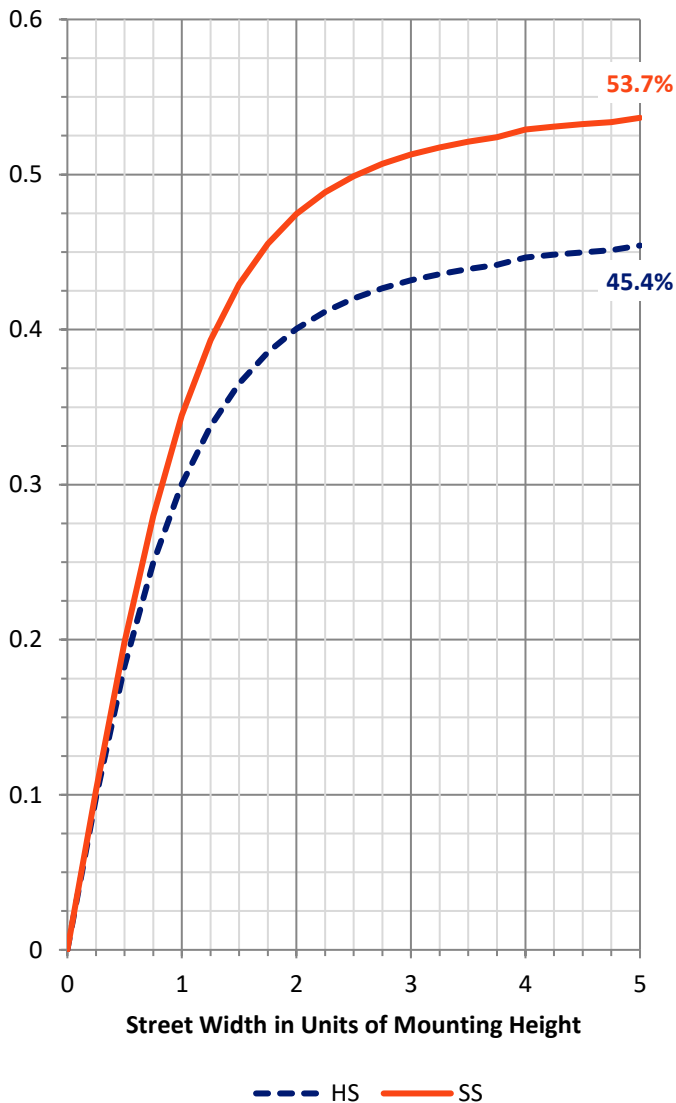
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1627.6	0.0	1627.6
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	1907.4	0.0	1907.4
	% Fixture	54.0	0.0	54.0
Total	Lumens	3535.0	0.0	3535.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	0.7
10°-20°	88.8	2.5
20°-30°	189.9	5.4
30°-40°	350.0	9.9
40°-50°	558.2	15.8
50°-60°	759.1	21.5
60°-70°	822.4	23.3
70°-80°	587.7	16.6
80°-90°	153.6	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°	3535.0	100.0
0°-180°	3535.0	100.0



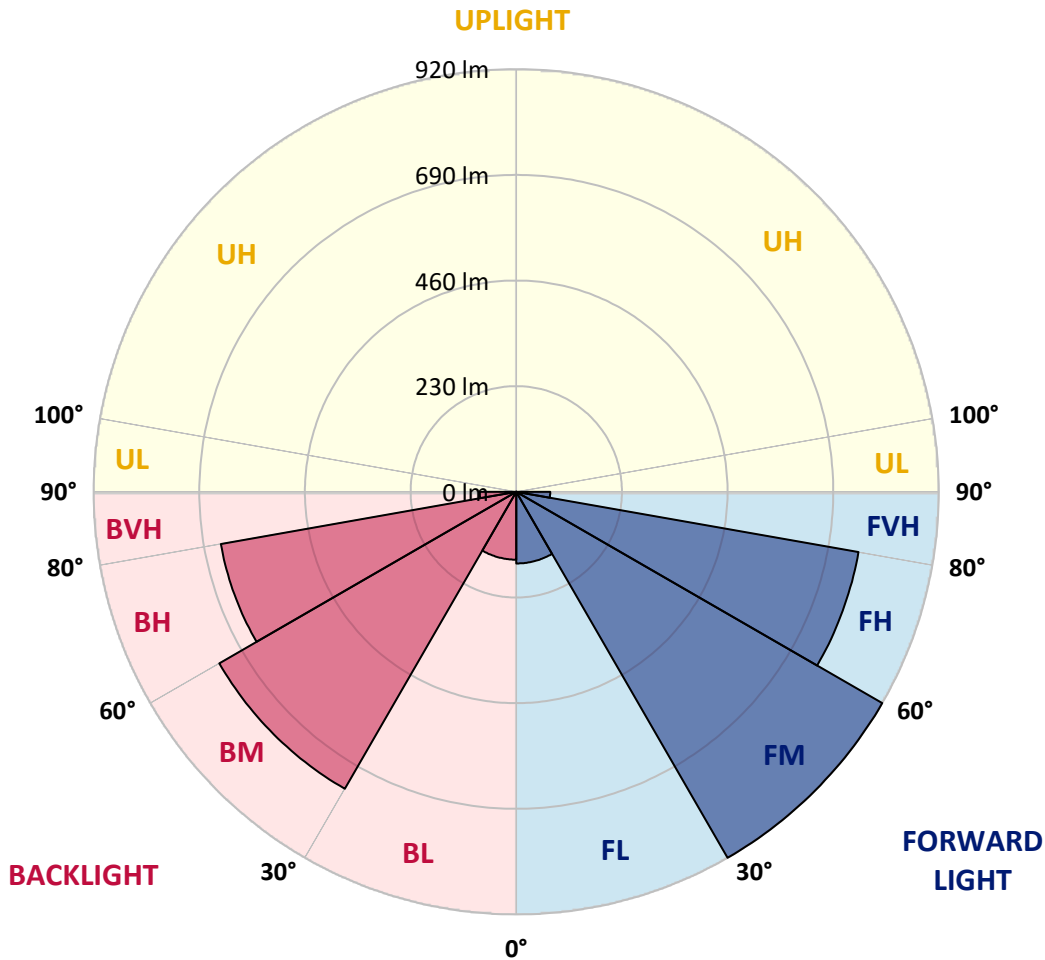
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	156.1	4.4			
FM (30°-60°)	920.5	26.0			
FH (60°-80°)	756.9	21.4			G1/1800
FVH (80°-90°)	74.0	2.1			G1/100
BL (0°-30°)	147.8	4.2	B1/500		
BM (30°-60°)	746.9	21.1	B1/1000		
BH (60°-80°)	653.3	18.5	B2/1000		G2/1000
BVH (80°-90°)	79.6	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°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2
2.5°	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	250.7	251.3	251.3
5°	252.5	251.9	251.9	252.5	253.0	253.6	254.7	255.3	256.4	257.6	257.0
7.5°	257.6	257.6	257.6	258.2	259.9	261.0	262.7	264.4	266.1	267.3	266.7
10°	265.6	265.6	265.6	266.7	268.4	271.8	274.7	277.5	279.2	280.4	280.9
12.5°	274.1	274.1	275.2	277.5	280.9	285.5	290.6	294.6	297.5	298.6	299.2
15°	286.1	286.6	288.9	291.2	295.8	302.6	311.2	316.8	319.7	322.0	321.4
17.5°	304.3	303.7	305.5	310.6	315.7	325.4	335.7	345.3	351.0	351.0	351.0
20°	324.8	324.3	325.4	329.4	337.9	351.0	367.0	380.1	386.4	385.2	386.4
22.5°	347.6	347.6	348.8	352.2	360.7	379.5	401.8	421.1	429.7	426.8	425.7
25°	372.7	372.7	374.4	377.3	389.2	412.0	441.7	469.6	478.1	475.3	474.1
27.5°	401.8	399.5	402.9	405.7	420.6	450.8	489.5	524.9	543.7	534.0	530.6
30°	432.5	430.8	431.4	437.1	454.2	492.9	539.1	586.4	612.6	606.3	601.2
32.5°	459.3	460.5	462.2	471.9	491.2	538.0	591.5	653.6	683.3	681.6	680.4
35°	489.5	489.5	492.9	502.1	530.6	585.8	650.8	720.9	764.8	766.5	763.1
37.5°	513.5	513.5	518.6	530.6	564.2	629.7	709.5	792.1	845.1	854.2	851.4
40°	534.5	533.4	539.1	556.8	596.1	676.4	767.0	862.8	934.0	949.4	945.4
42.5°	547.1	548.2	556.2	578.4	626.9	717.5	823.5	929.5	1012.7	1038.9	1038.9
45°	556.2	557.3	569.3	595.5	654.8	757.9	874.8	997.8	1089.6	1127.8	1129.5
47.5°	560.2	561.9	576.7	608.6	678.1	795.0	924.3	1059.4	1158.6	1212.7	1209.3
50°	560.2	562.5	580.1	618.3	699.2	826.3	971.1	1118.1	1228.6	1289.1	1288.5
52.5°	556.8	559.6	581.3	625.7	716.9	856.5	1012.7	1168.2	1295.9	1367.1	1369.4
55°	549.9	553.3	578.4	630.3	730.6	880.5	1046.3	1215.0	1354.0	1434.4	1439.5
57.5°	536.3	539.7	568.2	626.3	735.7	893.0	1070.8	1248.0	1401.3	1495.3	1496.5
60°	513.5	517.4	548.2	613.2	730.6	893.6	1077.1	1262.8	1433.2	1536.4	1540.4
62°	488.4	492.9	527.7	594.9	717.5	884.4	1070.2	1262.3	1441.8	1548.3	1553.5
62.5°	482.1	486.1	521.4	588.7	712.3	879.9	1066.2	1259.4	1440.6	1548.9	1552.9
65°	443.4	447.4	483.3	554.5	681.0	852.0	1037.2	1234.3	1420.1	1526.1	1527.3
67.5°	400.6	404.6	440.5	507.8	636.0	805.2	988.2	1184.8	1365.4	1457.2	1465.7
70°	351.0	356.7	389.8	456.5	576.7	738.0	910.7	1106.1	1278.2	1356.3	1364.3
72.5°	302.0	306.0	332.2	390.9	499.8	649.7	810.4	987.0	1143.7	1217.8	1224.7
75°	245.0	248.5	274.1	322.5	413.7	541.4	693.0	847.4	989.9	1056.5	1061.7
77.5°	193.2	194.3	212.6	251.3	321.4	424.6	549.9	671.9	801.2	861.6	875.3
80°	136.2	141.9	154.4	181.2	225.7	304.3	394.9	499.2	589.8	657.6	662.2
82.5°	88.3	89.5	97.4	107.1	139.0	192.0	251.3	315.7	396.6	440.5	437.1
85°	46.2	46.2	49.0	51.9	62.7	86.1	121.4	166.4	213.7	246.8	242.2
87.5°	8.0	7.4	8.0	7.4	9.7	13.7	25.6	41.6	62.7	74.1	81.5
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°	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2	250.2
2.5°	251.3	251.3	251.9	253.0	253.0	253.6	254.2	254.2	254.7	255.3	255.3
5°	258.2	258.2	258.7	259.9	260.4	260.4	261.0	261.6	261.6	261.6	262.1
7.5°	267.3	267.8	268.4	269.0	269.6	269.6	271.3	270.7	270.7	270.7	270.7
10°	280.4	281.5	281.5	281.5	281.5	280.9	281.5	280.9	279.8	279.8	279.2
12.5°	299.8	299.8	298.6	297.5	295.8	295.2	294.6	292.9	290.6	289.5	289.5
15°	322.0	320.8	318.6	316.3	313.4	311.2	307.2	304.9	302.0	300.9	300.9
17.5°	350.5	348.8	342.5	337.9	331.1	326.0	321.4	316.8	313.4	312.3	311.7
20°	383.0	379.0	369.8	359.6	350.5	342.5	333.9	328.2	324.8	322.0	321.4
22.5°	424.0	418.3	402.3	386.4	369.8	358.5	347.6	339.6	333.4	330.5	329.4
25°	468.4	459.9	439.4	415.4	392.6	375.0	361.3	350.5	343.1	338.5	337.4
27.5°	524.9	512.3	482.1	446.2	416.0	393.8	375.0	362.4	352.8	345.9	344.8
30°	591.0	577.9	527.7	480.4	442.2	410.9	390.4	373.8	361.9	353.9	352.2
32.5°	669.6	645.7	588.1	521.4	469.0	430.8	404.6	385.2	370.4	361.3	359.0
35°	749.4	724.9	649.1	564.7	497.5	451.3	420.0	396.6	380.1	368.7	367.6
37.5°	838.9	809.2	720.3	613.8	528.3	473.0	434.2	407.5	387.5	375.5	374.4
40°	935.2	905.0	796.7	670.2	564.7	494.1	447.9	417.7	395.5	382.4	380.7
42.5°	1029.8	993.9	874.2	726.6	601.8	517.4	463.9	428.5	402.3	388.7	386.4
45°	1111.8	1080.5	952.8	791.6	644.5	541.4	479.8	438.8	409.7	394.4	392.1
47.5°	1204.7	1171.1	1038.9	851.4	685.6	568.7	495.2	447.9	416.0	399.5	397.8
50°	1286.8	1256.6	1115.2	906.7	724.9	594.4	509.5	456.5	421.1	403.5	401.2
52.5°	1361.4	1334.6	1185.3	958.5	758.5	618.3	522.6	462.7	424.6	405.2	402.3
55°	1436.7	1401.9	1246.3	1004.1	785.3	637.1	533.4	465.6	424.0	404.0	401.2
57.5°	1493.1	1460.0	1290.8	1036.6	805.2	649.7	539.7	465.0	420.6	398.9	395.5
60°	1531.2	1494.8	1317.0	1052.6	812.1	653.6	539.7	459.9	412.0	388.7	385.2
62°	1545.5	1503.3	1322.1	1054.8	809.2	649.7	535.7	451.3	400.6	377.8	374.4
62.5°	1546.1	1502.8	1320.4	1053.1	807.5	647.9	533.4	448.5	397.8	374.4	371.0
65°	1521.0	1477.7	1299.9	1035.5	788.1	632.6	517.4	432.0	377.8	355.0	351.6
67.5°	1449.2	1416.1	1250.9	994.4	755.1	604.1	494.1	408.0	354.5	330.5	328.8
70°	1349.5	1319.3	1171.1	932.3	707.2	563.0	459.3	376.1	324.8	303.2	299.2
72.5°	1224.1	1184.8	1057.7	849.1	638.3	506.6	413.7	336.2	290.6	271.3	269.0
75°	1068.5	1021.2	915.2	739.1	555.6	438.8	360.7	291.8	251.3	234.8	236.5
77.5°	870.2	848.0	739.7	589.2	452.5	363.0	295.8	247.3	212.6	198.9	197.7
80°	657.1	636.0	560.2	447.4	341.9	274.7	229.1	194.9	171.0	159.0	158.4
82.5°	445.6	425.7	368.1	300.3	233.1	194.3	165.8	143.6	128.8	123.1	123.1
85°	245.0	227.9	194.9	162.4	131.6	111.1	107.1	95.7	91.7	90.6	91.7
87.5°	76.4	75.8	64.4	53.0	46.2	46.7	42.2	43.3	41.0	40.5	43.3
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)