

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: P472334

Luminaire Tested: **CCW-VA-2-827-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472334
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-827-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: 3349.5 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

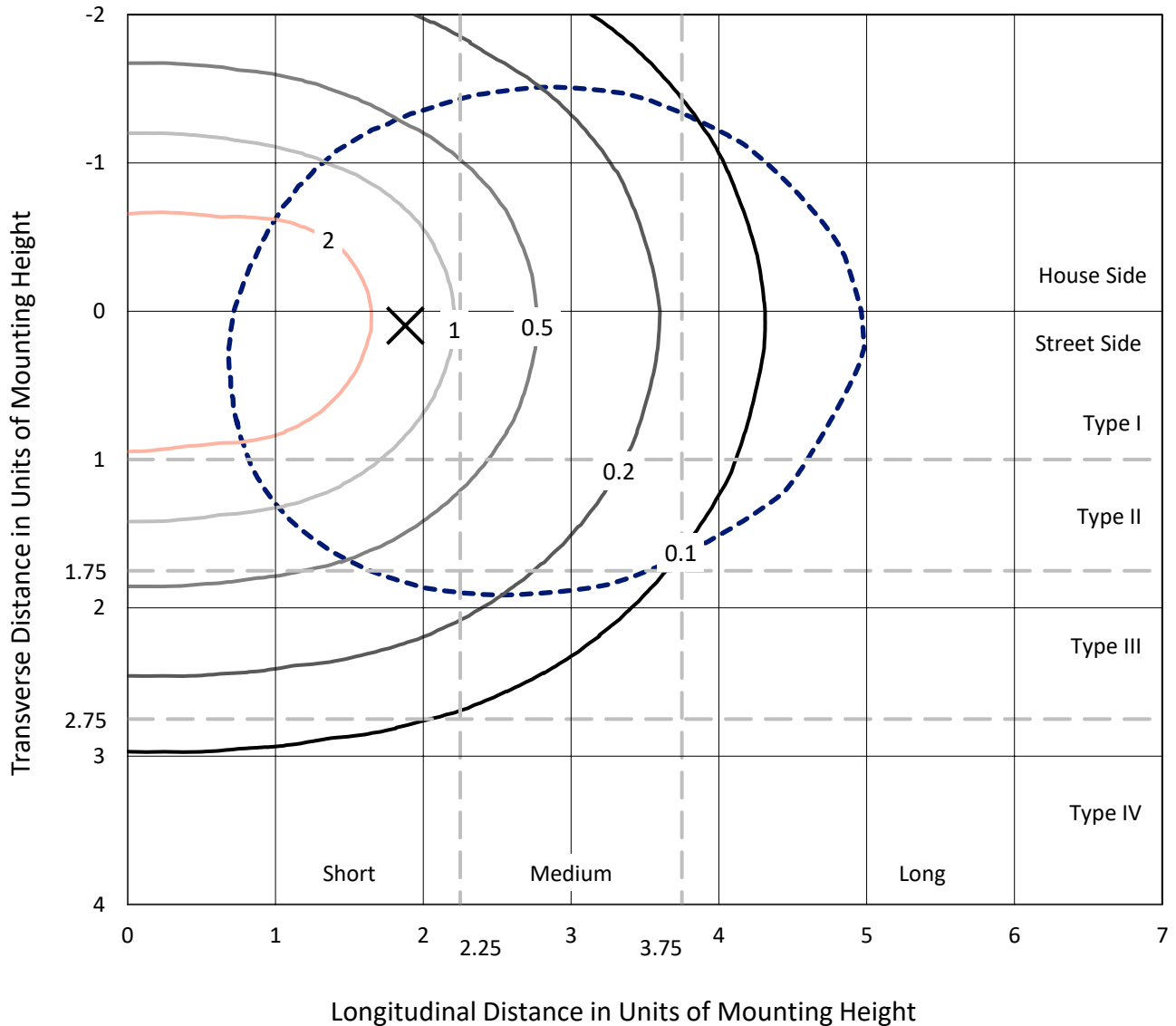
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

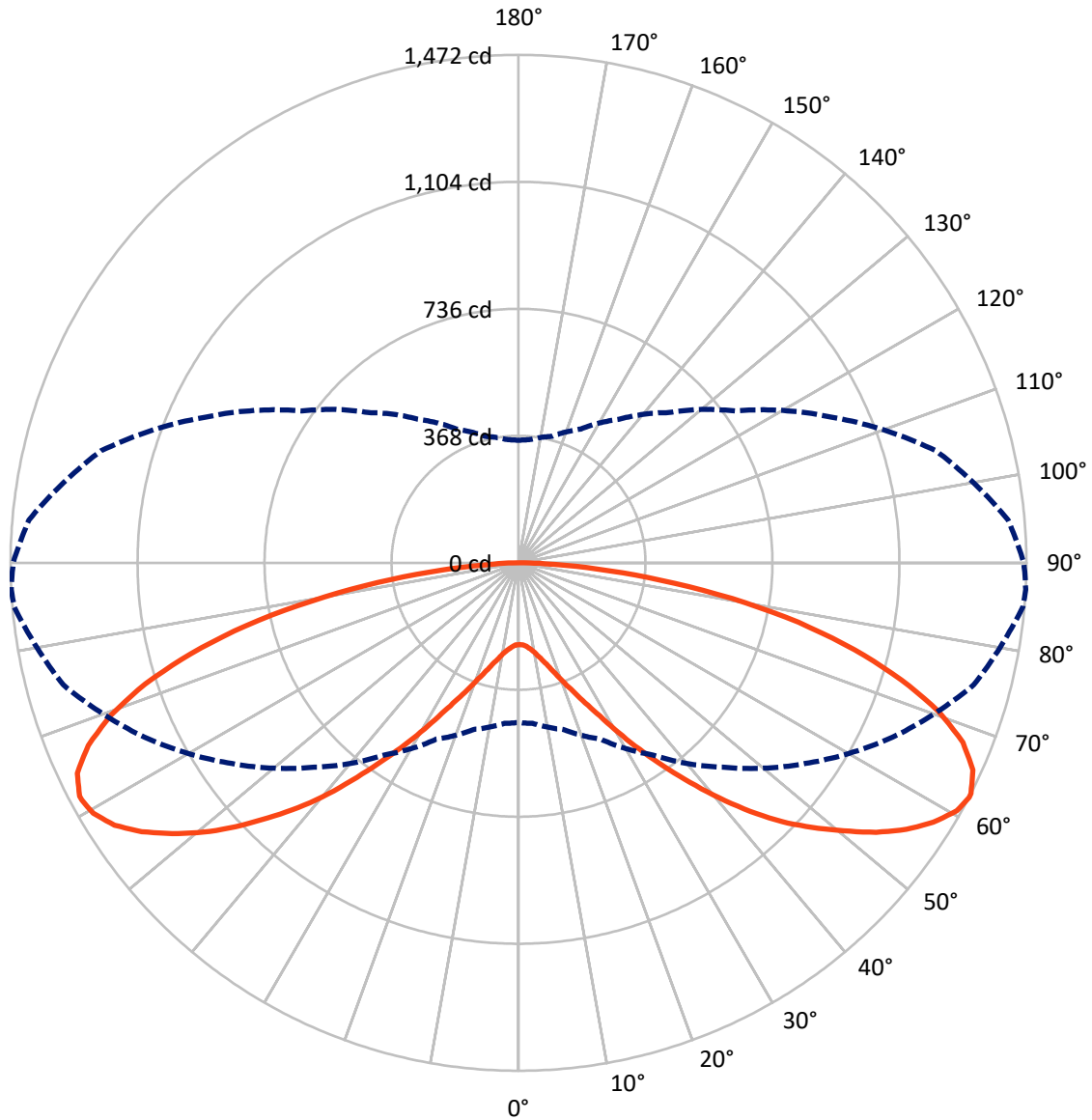
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4 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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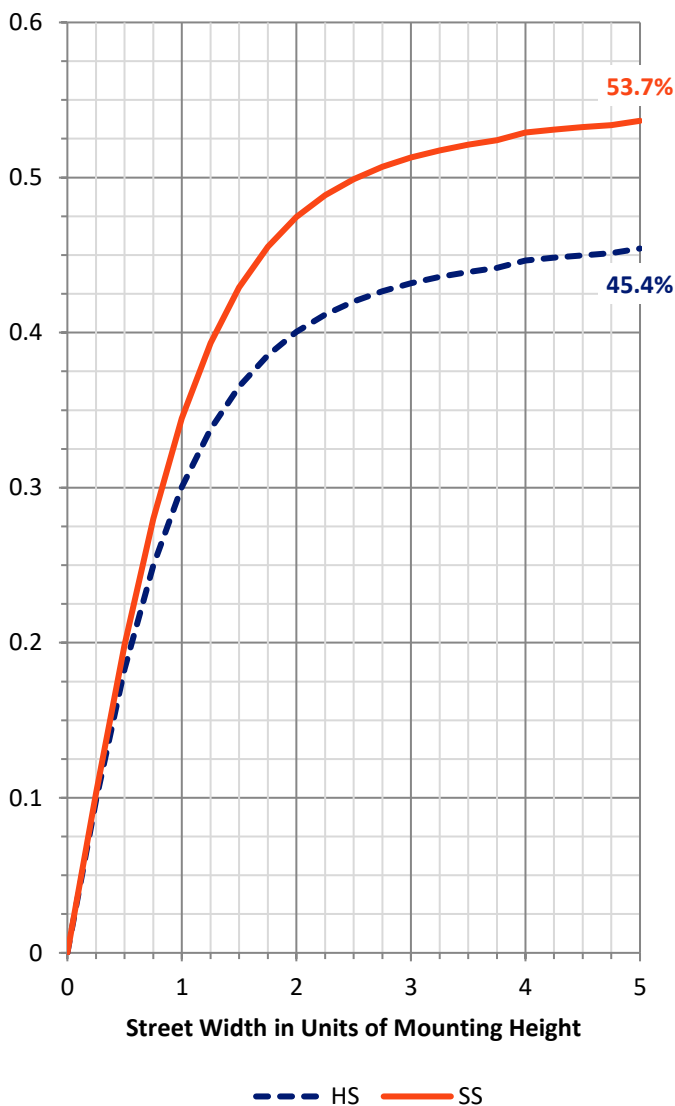
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1542.2	0.0	1542.2
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	1807.3	0.0	1807.3
	% Fixture	54.0	0.0	54.0
Total	Lumens	3349.5	0.0	3349.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	0.7
10°-20°	84.2	2.5
20°-30°	180.0	5.4
30°-40°	331.7	9.9
40°-50°	528.9	15.8
50°-60°	719.3	21.5
60°-70°	779.3	23.3
70°-80°	556.8	16.6
80°-90°	145.5	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°	3349.5	100.0
0°-180°	3349.5	100.0

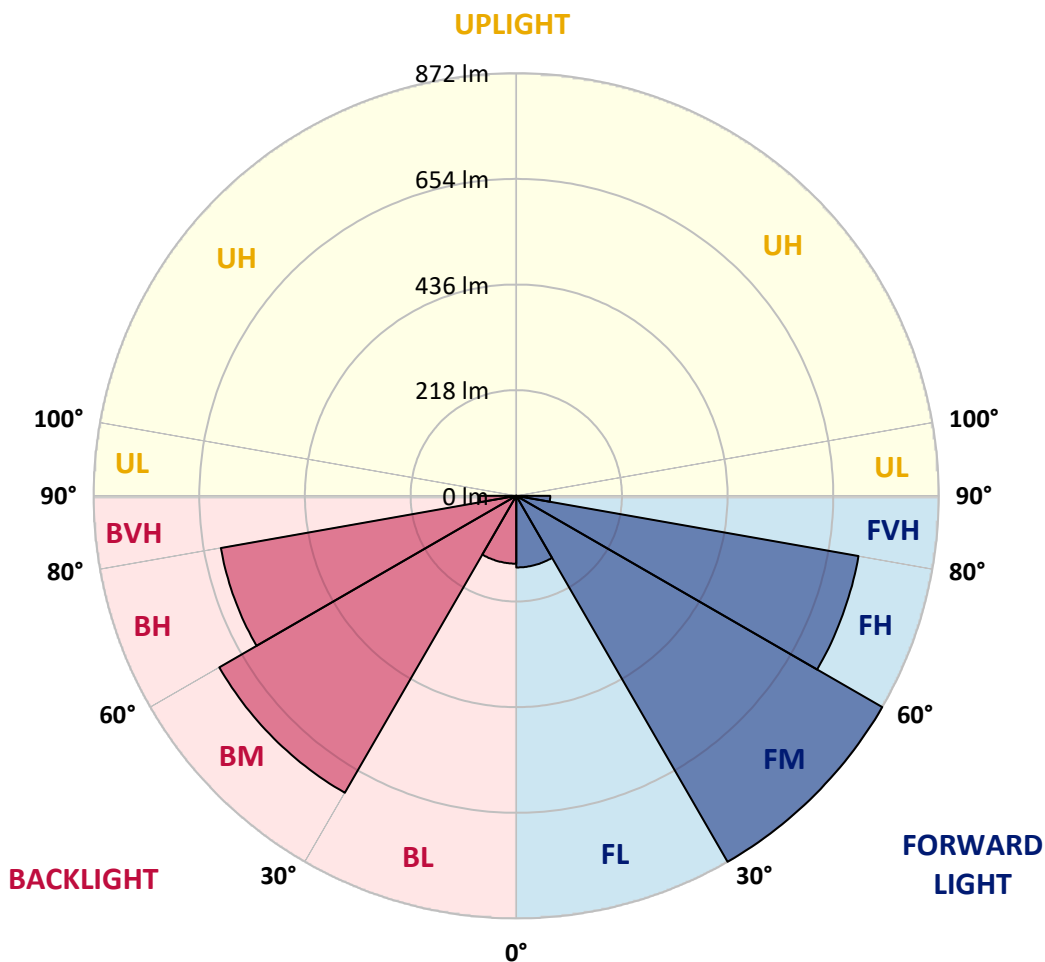


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	147.9	4.4			
FM (30°-60°)	872.2	26.0			
FH (60°-80°)	717.1	21.4			G1/1800
FVH (80°-90°)	70.1	2.1			G1/100
BL (0°-30°)	140.1	4.2	B1/500		
BM (30°-60°)	707.7	21.1	B1/1000		
BH (60°-80°)	619.0	18.5	B2/1000		G2/1000
BVH (80°-90°)	75.4	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°	237.0	237.0	237.0	237.0	237.0	237.0	237.0	237.0	237.0	237.0	237.0
2.5°	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6	237.6	238.1	238.1
5°	239.2	238.7	238.7	239.2	239.7	240.3	241.4	241.9	243.0	244.1	243.5
7.5°	244.1	244.1	244.1	244.6	246.2	247.3	248.9	250.5	252.2	253.2	252.7
10°	251.6	251.6	251.6	252.7	254.3	257.6	260.3	263.0	264.6	265.7	266.2
12.5°	259.7	259.7	260.8	263.0	266.2	270.5	275.4	279.2	281.9	282.9	283.5
15°	271.1	271.6	273.8	275.9	280.2	286.7	294.8	300.2	302.9	305.1	304.5
17.5°	288.3	287.8	289.4	294.3	299.1	308.3	318.0	327.2	332.6	332.6	332.6
20°	307.8	307.2	308.3	312.1	320.2	332.6	347.7	360.2	366.1	365.0	366.1
22.5°	329.4	329.4	330.5	333.7	341.8	359.6	380.7	399.0	407.1	404.4	403.4
25°	353.1	353.1	354.8	357.5	368.8	390.4	418.5	444.9	453.0	450.3	449.3
27.5°	380.7	378.5	381.8	384.5	398.5	427.1	463.8	497.3	515.1	505.9	502.7
30°	409.8	408.2	408.8	414.2	430.4	467.1	510.8	555.6	580.5	574.5	569.7
32.5°	435.2	436.3	437.9	447.1	465.5	509.7	560.5	619.3	647.4	645.8	644.7
35°	463.8	463.8	467.1	475.7	502.7	555.1	616.6	683.1	724.6	726.3	723.0
37.5°	486.5	486.5	491.4	502.7	534.6	596.7	672.3	750.6	800.8	809.4	806.7
40°	506.5	505.4	510.8	527.5	564.8	640.9	726.8	817.5	885.0	899.6	895.8
42.5°	518.4	519.4	527.0	548.1	594.0	679.8	780.3	880.7	959.5	984.4	984.4
45°	527.0	528.1	539.4	564.3	620.4	718.2	828.8	945.5	1032.4	1068.6	1070.2
47.5°	530.8	532.4	546.4	576.7	642.6	753.3	875.8	1003.8	1097.8	1149.1	1145.8
50°	530.8	532.9	549.7	585.9	662.5	783.0	920.1	1059.4	1164.2	1221.4	1220.9
52.5°	527.5	530.2	550.8	592.9	679.3	811.6	959.5	1106.9	1227.9	1295.4	1297.5
55°	521.1	524.3	548.1	597.2	692.2	834.2	991.4	1151.2	1283.0	1359.1	1364.0
57.5°	508.1	511.3	538.3	593.4	697.1	846.1	1014.6	1182.5	1327.8	1416.9	1418.0
60°	486.5	490.3	519.4	581.0	692.2	846.7	1020.5	1196.6	1358.0	1455.8	1459.5
62°	462.8	467.1	500.0	563.7	679.8	838.0	1014.1	1196.0	1366.1	1467.1	1472.0
62.5°	456.8	460.6	494.1	557.8	675.0	833.7	1010.3	1193.3	1365.0	1467.6	1471.4
65°	420.1	423.9	457.9	525.4	645.3	807.3	982.7	1169.6	1345.6	1446.0	1447.1
67.5°	379.6	383.4	417.4	481.1	602.6	763.0	936.3	1122.6	1293.8	1380.7	1388.8
70°	332.6	338.0	369.3	432.5	546.4	699.3	862.9	1048.1	1211.1	1285.1	1292.7
72.5°	286.2	290.0	314.8	370.4	473.6	615.6	767.8	935.2	1083.7	1153.9	1160.4
75°	232.2	235.4	259.7	305.6	392.0	513.0	656.6	802.9	937.9	1001.1	1006.0
77.5°	183.0	184.1	201.4	238.1	304.5	402.3	521.1	636.6	759.2	816.4	829.4
80°	129.1	134.5	146.3	171.7	213.8	288.3	374.2	473.0	558.9	623.1	627.4
82.5°	83.7	84.8	92.3	101.5	131.8	182.0	238.1	299.1	375.8	417.4	414.2
85°	43.7	43.7	46.4	49.1	59.4	81.5	115.0	157.7	202.5	233.8	229.5
87.5°	7.6	7.0	7.6	7.0	9.2	13.0	24.3	39.4	59.4	70.2	77.2
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°	237.0	237.0	237.0	237.0	237.0	237.0	237.0	237.0	237.0	237.0	237.0
2.5°	238.1	238.1	238.7	239.7	239.7	240.3	240.8	240.8	241.4	241.9	241.9
5°	244.6	244.6	245.1	246.2	246.8	246.8	247.3	247.8	247.8	247.8	248.4
7.5°	253.2	253.8	254.3	254.9	255.4	255.4	257.0	256.5	256.5	256.5	256.5
10°	265.7	266.7	266.7	266.7	266.7	266.2	266.7	266.2	265.1	265.1	264.6
12.5°	284.0	284.0	282.9	281.9	280.2	279.7	279.2	277.5	275.4	274.3	274.3
15°	305.1	304.0	301.8	299.7	297.0	294.8	291.0	288.9	286.2	285.1	285.1
17.5°	332.1	330.5	324.5	320.2	313.7	308.9	304.5	300.2	297.0	295.9	295.4
20°	362.9	359.1	350.4	340.7	332.1	324.5	316.4	311.0	307.8	305.1	304.5
22.5°	401.7	396.3	381.2	366.1	350.4	339.6	329.4	321.8	315.9	313.2	312.1
25°	443.9	435.8	416.3	393.6	372.0	355.3	342.3	332.1	325.1	320.7	319.7
27.5°	497.3	485.4	456.8	422.8	394.2	373.1	355.3	343.4	334.2	327.8	326.7
30°	559.9	547.5	500.0	455.2	419.0	389.3	369.9	354.2	342.9	335.3	333.7
32.5°	634.5	611.8	557.2	494.1	444.4	408.2	383.4	365.0	351.0	342.3	340.2
35°	710.1	686.8	615.0	535.1	471.4	427.7	398.0	375.8	360.2	349.4	348.3
37.5°	794.8	766.8	682.5	581.5	500.5	448.2	411.5	386.1	367.2	355.8	354.8
40°	886.1	857.5	754.9	635.0	535.1	468.2	424.4	395.8	374.7	362.3	360.7
42.5°	975.7	941.7	828.3	688.5	570.2	490.3	439.5	406.1	381.2	368.3	366.1
45°	1053.5	1023.8	902.8	750.0	610.7	513.0	454.7	415.8	388.2	373.7	371.5
47.5°	1141.5	1109.6	984.4	806.7	649.6	538.9	469.2	424.4	394.2	378.5	376.9
50°	1219.2	1190.6	1056.7	859.1	686.8	563.2	482.7	432.5	399.0	382.3	380.1
52.5°	1290.0	1264.6	1123.1	908.2	718.7	585.9	495.2	438.5	402.3	383.9	381.2
55°	1361.3	1328.3	1180.9	951.4	744.1	603.7	505.4	441.2	401.7	382.8	380.1
57.5°	1414.7	1383.4	1223.0	982.2	763.0	615.6	511.3	440.6	398.5	378.0	374.7
60°	1450.9	1416.3	1247.9	997.3	769.5	619.3	511.3	435.8	390.4	368.3	365.0
62°	1464.4	1424.4	1252.7	999.5	766.8	615.6	507.6	427.7	379.6	358.0	354.8
62.5°	1464.9	1423.9	1251.1	997.9	765.1	613.9	505.4	425.0	376.9	354.8	351.5
65°	1441.2	1400.1	1231.7	981.1	746.8	599.4	490.3	409.3	358.0	336.4	333.2
67.5°	1373.1	1341.8	1185.2	942.2	715.5	572.4	468.2	386.6	335.9	313.2	311.6
70°	1278.6	1250.0	1109.6	883.4	670.1	533.5	435.2	356.4	307.8	287.3	283.5
72.5°	1159.8	1122.6	1002.2	804.6	604.8	480.0	392.0	318.6	275.4	257.0	254.9
75°	1012.4	967.6	867.2	700.3	526.5	415.8	341.8	276.5	238.1	222.5	224.1
77.5°	824.5	803.5	700.9	558.3	428.7	344.0	280.2	234.3	201.4	188.4	187.4
80°	622.6	602.6	530.8	423.9	324.0	260.3	217.1	184.7	162.0	150.7	150.1
82.5°	422.3	403.4	348.8	284.6	220.8	184.1	157.1	136.1	122.0	116.6	116.6
85°	232.2	216.0	184.7	153.9	124.7	105.3	101.5	90.7	86.9	85.9	86.9
87.5°	72.4	71.8	61.0	50.2	43.7	44.3	40.0	41.0	38.9	38.3	41.0
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)