

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: P472346

Luminaire Tested: **CCW-VA-2-840-U-T3**

Issue Date: 01/27/2021

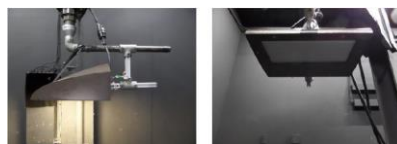
Test Information

Test Method: LM-79-08
Report Number: P472346
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-840-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: 3651.1 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

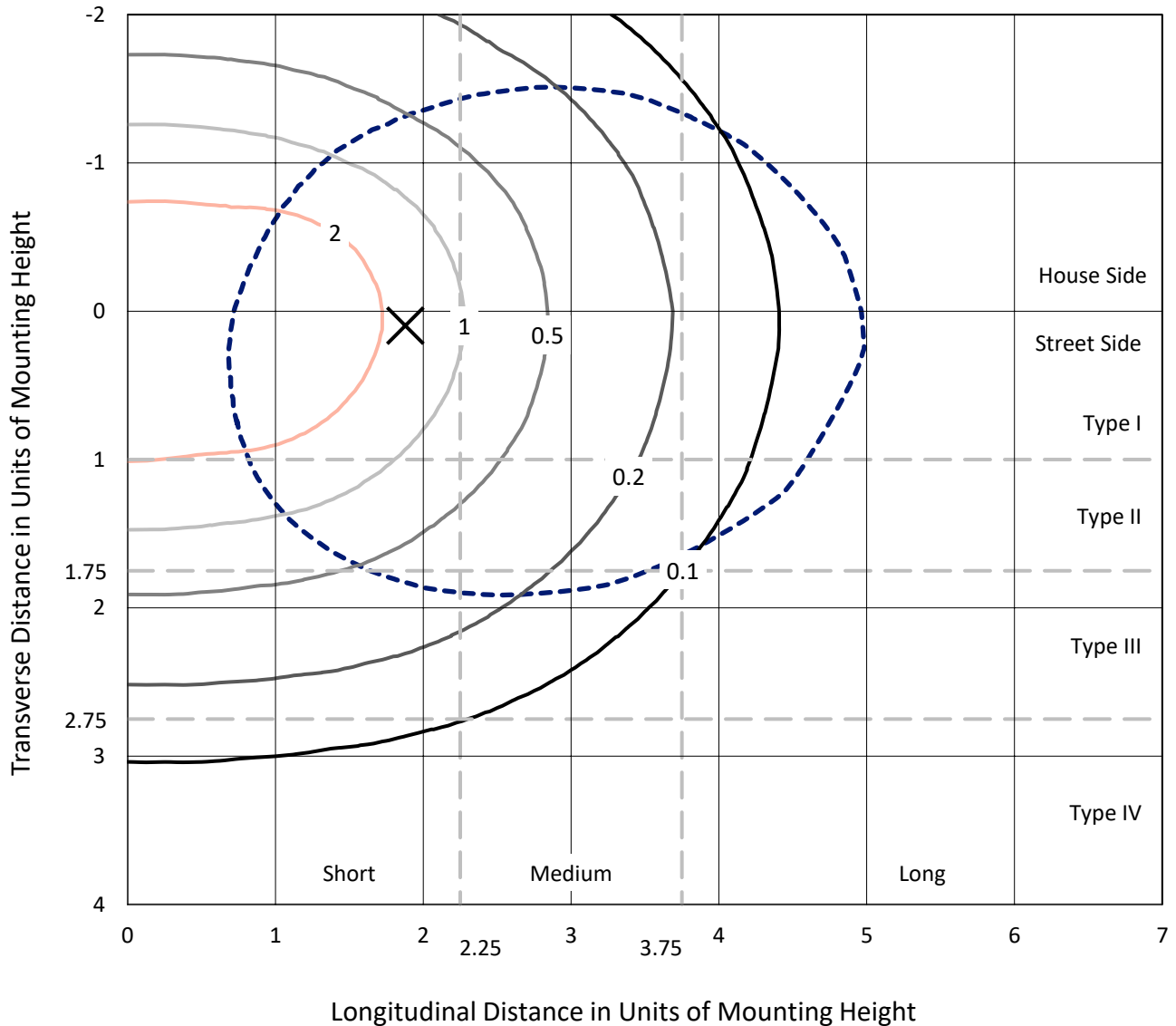
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

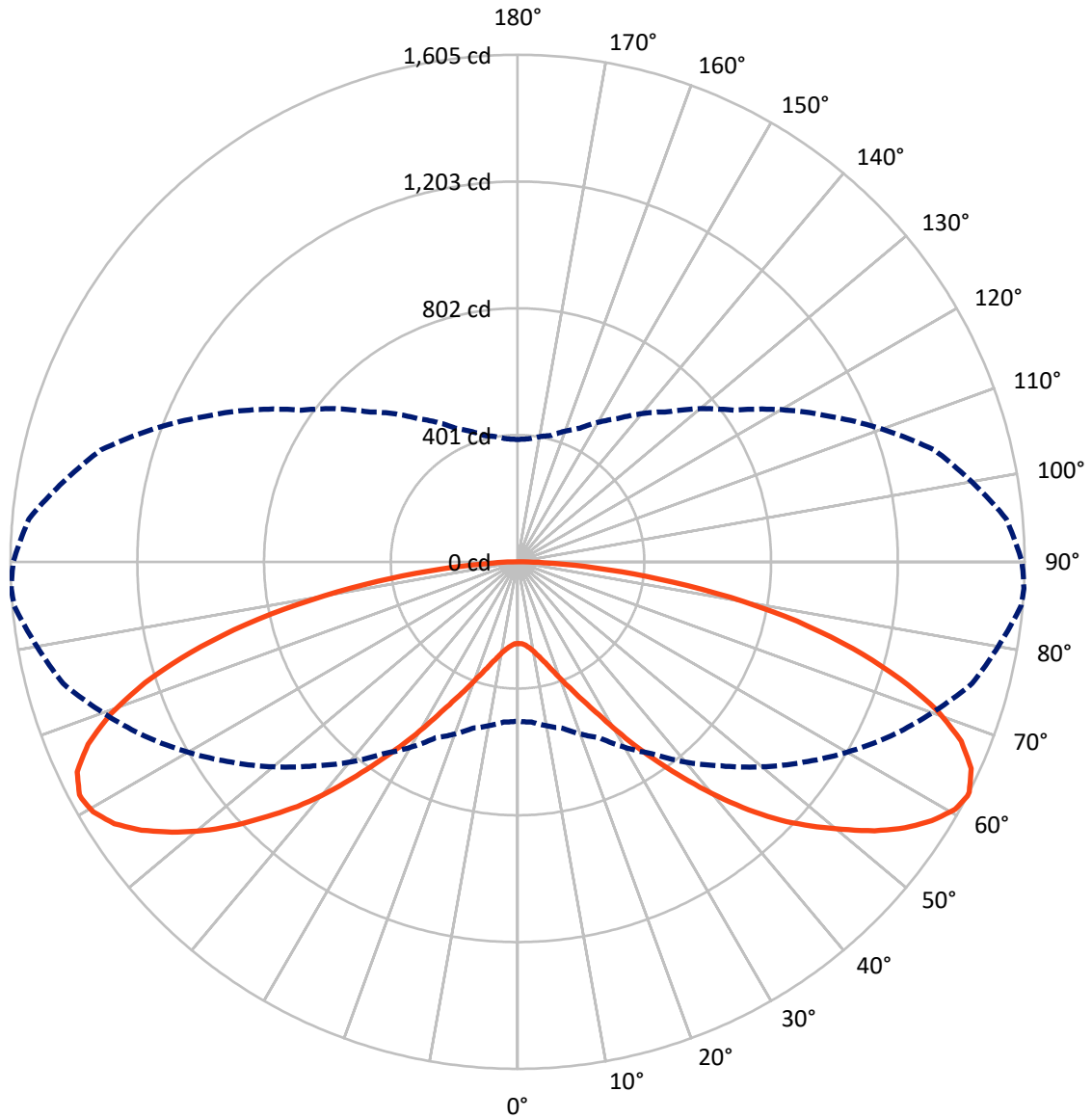
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.4 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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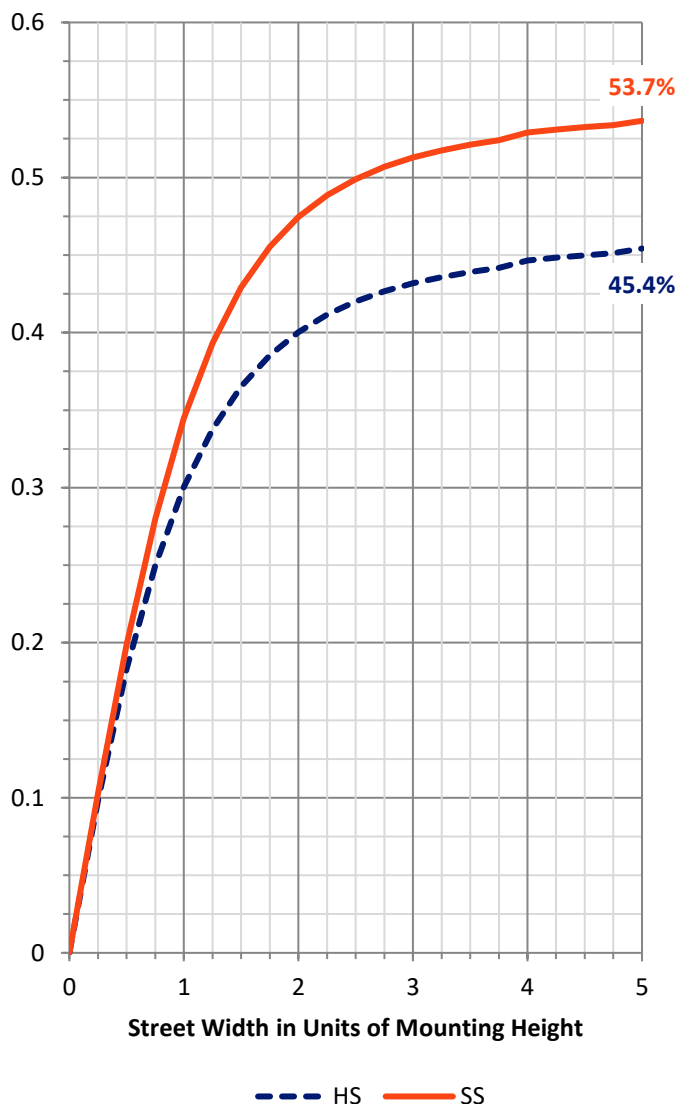
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1681.0	0.0	1681.0
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	1970.0	0.0	1970.0
	% Fixture	54.0	0.0	54.0
Total	Lumens	3651.1	0.0	3651.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.0	0.7
10°-20°	91.7	2.5
20°-30°	196.2	5.4
30°-40°	361.5	9.9
40°-50°	576.6	15.8
50°-60°	784.0	21.5
60°-70°	849.4	23.3
70°-80°	607.0	16.6
80°-90°	158.6	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°	3651.1	100.0
0°-180°	3651.1	100.0

Coefficient of Utilization

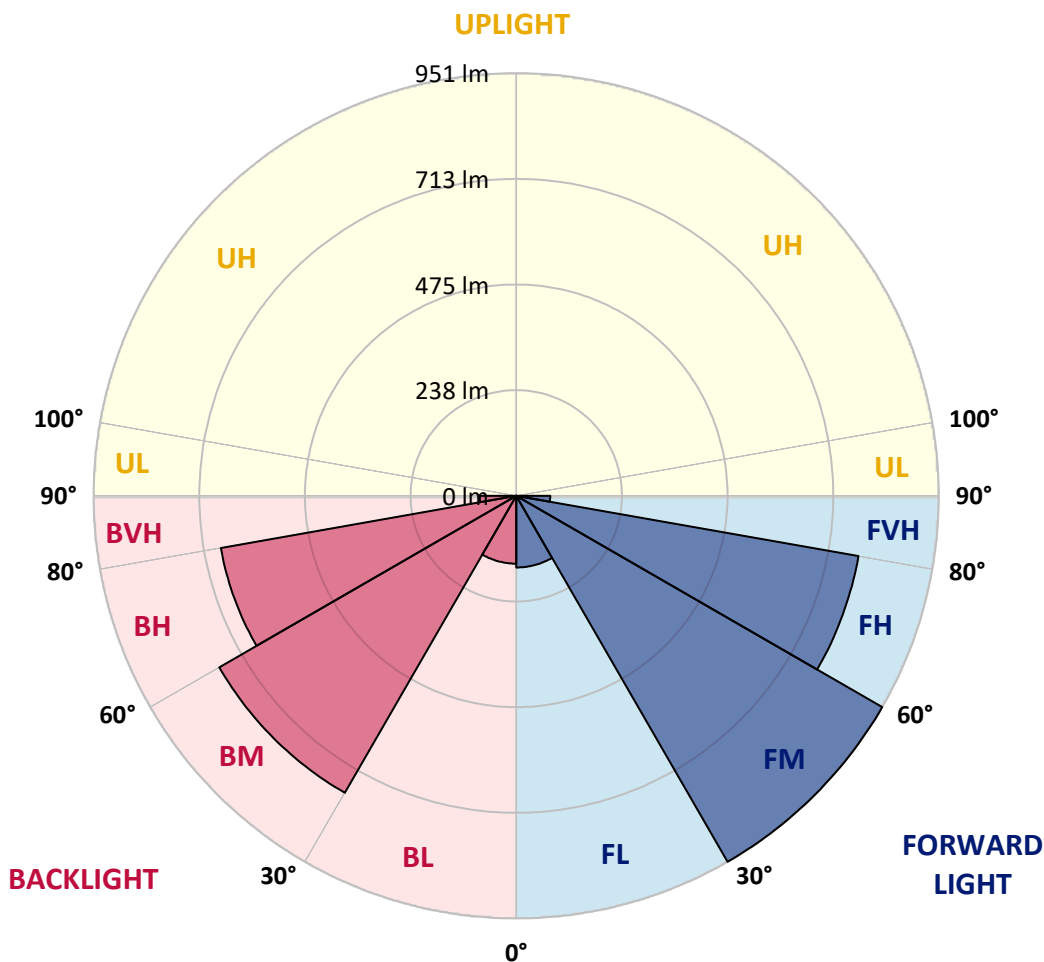


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	161.2	4.4			
FM (30°-60°)	950.7	26.0			
FH (60°-80°)	781.7	21.4			G1/1800
FVH (80°-90°)	76.4	2.1			G1/100
BL (0°-30°)	152.7	4.2	B1/500		
BM (30°-60°)	771.4	21.1	B1/1000		
BH (60°-80°)	674.7	18.5	B2/1000		G2/1000
BVH (80°-90°)	82.2	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°	258.4	258.4	258.4	258.4	258.4	258.4	258.4	258.4	258.4	258.4	258.4
2.5°	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.0	259.6	259.6
5°	260.7	260.2	260.2	260.7	261.3	261.9	263.1	263.7	264.9	266.0	265.4
7.5°	266.0	266.0	266.0	266.6	268.4	269.6	271.3	273.1	274.9	276.0	275.5
10°	274.3	274.3	274.3	275.5	277.2	280.8	283.7	286.6	288.4	289.6	290.2
12.5°	283.1	283.1	284.3	286.6	290.2	294.9	300.2	304.3	307.2	308.4	309.0
15°	295.5	296.1	298.4	300.8	305.5	312.5	321.4	327.3	330.2	332.5	332.0
17.5°	314.3	313.7	315.5	320.8	326.1	336.1	346.7	356.7	362.6	362.6	362.6
20°	335.5	334.9	336.1	340.2	349.0	362.6	379.0	392.6	399.1	397.9	399.1
22.5°	359.0	359.0	360.2	363.7	372.6	392.0	414.9	435.0	443.8	440.8	439.7
25°	384.9	384.9	386.7	389.6	402.0	425.5	456.1	485.0	493.8	490.9	489.7
27.5°	414.9	412.6	416.1	419.1	434.4	465.6	505.6	542.1	561.5	551.5	548.0
30°	446.7	445.0	445.6	451.4	469.1	509.1	556.8	605.6	632.7	626.2	621.0
32.5°	474.4	475.6	477.3	487.3	507.4	555.6	610.9	675.1	705.7	703.9	702.8
35°	505.6	505.6	509.1	518.5	548.0	605.1	672.2	744.6	789.9	791.6	788.1
37.5°	530.3	530.3	535.6	548.0	582.7	650.4	732.8	818.1	872.9	882.3	879.3
40°	552.1	550.9	556.8	575.0	615.7	698.6	792.2	891.1	964.7	980.6	976.5
42.5°	565.0	566.2	574.5	597.4	647.4	741.0	850.5	960.0	1045.9	1073.0	1073.0
45°	574.5	575.6	588.0	615.1	676.3	782.8	903.5	1030.6	1125.4	1164.8	1166.6
47.5°	578.6	580.3	595.6	628.6	700.4	821.1	954.7	1094.2	1196.6	1252.5	1249.0
50°	578.6	580.9	599.2	638.6	722.2	853.4	1002.9	1154.8	1269.0	1331.4	1330.8
52.5°	575.0	578.0	600.4	646.3	740.4	884.6	1045.9	1206.6	1338.4	1412.0	1414.4
55°	568.0	571.5	597.4	651.0	754.6	909.4	1080.6	1254.9	1398.5	1481.5	1486.8
57.5°	553.9	557.4	586.8	646.8	759.9	922.3	1105.9	1289.0	1447.3	1544.4	1545.6
60°	530.3	534.4	566.2	633.3	754.6	922.9	1112.4	1304.3	1480.3	1586.8	1590.9
62°	504.4	509.1	545.0	614.5	741.0	913.5	1105.4	1303.7	1489.1	1599.2	1604.5
62.5°	497.9	502.1	538.6	608.0	735.7	908.8	1101.2	1300.8	1487.9	1599.8	1603.9
65°	457.9	462.0	499.1	572.7	703.4	879.9	1071.2	1274.9	1466.7	1576.2	1577.4
67.5°	413.8	417.9	455.0	524.4	656.9	831.7	1020.6	1223.7	1410.2	1505.0	1513.8
70°	362.6	368.5	402.6	471.5	595.6	762.2	940.6	1142.4	1320.2	1400.8	1409.1
72.5°	311.9	316.1	343.1	403.8	516.2	671.0	837.0	1019.4	1181.3	1257.8	1264.9
75°	253.1	256.6	283.1	333.1	427.3	559.2	715.7	875.2	1022.4	1091.2	1096.5
77.5°	199.5	200.7	219.5	259.6	332.0	438.5	568.0	693.9	827.5	889.9	904.1
80°	140.7	146.6	159.5	187.2	233.1	314.3	407.9	515.6	609.2	679.2	683.9
82.5°	91.2	92.4	100.6	110.7	143.6	198.4	259.6	326.1	409.7	455.0	451.4
85°	47.7	47.7	50.6	53.6	64.7	88.9	125.4	171.9	220.7	254.9	250.1
87.5°	8.2	7.7	8.2	7.7	10.0	14.1	26.5	43.0	64.7	76.5	84.2
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°	258.4	258.4	258.4	258.4	258.4	258.4	258.4	258.4	258.4	258.4	258.4
2.5°	259.6	259.6	260.2	261.3	261.3	261.9	262.5	262.5	263.1	263.7	263.7
5°	266.6	266.6	267.2	268.4	269.0	269.0	269.6	270.2	270.2	270.2	270.7
7.5°	276.0	276.6	277.2	277.8	278.4	278.4	280.2	279.6	279.6	279.6	279.6
10°	289.6	290.8	290.8	290.8	290.8	290.2	290.8	290.2	289.0	289.0	288.4
12.5°	309.6	309.6	308.4	307.2	305.5	304.9	304.3	302.5	300.2	299.0	299.0
15°	332.5	331.4	329.0	326.7	323.7	321.4	317.2	314.9	311.9	310.8	310.8
17.5°	362.0	360.2	353.7	349.0	342.0	336.7	332.0	327.3	323.7	322.5	322.0
20°	395.5	391.4	382.0	371.4	362.0	353.7	344.9	339.0	335.5	332.5	332.0
22.5°	437.9	432.0	415.5	399.1	382.0	370.2	359.0	350.8	344.3	341.4	340.2
25°	483.8	475.0	453.8	429.1	405.5	387.3	373.2	362.0	354.3	349.6	348.4
27.5°	542.1	529.1	497.9	460.9	429.7	406.7	387.3	374.3	364.3	357.3	356.1
30°	610.4	596.8	545.0	496.2	456.7	424.4	403.2	386.1	373.7	365.5	363.7
32.5°	691.6	666.9	607.4	538.6	484.4	445.0	417.9	397.9	382.6	373.2	370.8
35°	774.0	748.7	670.4	583.3	513.8	466.2	433.8	409.7	392.6	380.8	379.6
37.5°	866.4	835.8	744.0	633.9	545.6	488.5	448.5	420.8	400.2	387.9	386.7
40°	965.9	934.7	822.8	692.2	583.3	510.3	462.6	431.4	408.5	394.9	393.2
42.5°	1063.6	1026.5	902.9	750.4	621.5	534.4	479.1	442.6	415.5	401.4	399.1
45°	1148.3	1115.9	984.1	817.5	665.7	559.2	495.6	453.2	423.2	407.3	404.9
47.5°	1244.3	1209.5	1073.0	879.3	708.1	587.4	511.5	462.6	429.7	412.6	410.8
50°	1329.0	1297.8	1151.9	936.4	748.7	613.9	526.2	471.5	435.0	416.7	414.4
52.5°	1406.1	1378.5	1224.2	990.0	783.4	638.6	539.7	477.9	438.5	418.5	415.5
55°	1483.8	1447.9	1287.2	1037.1	811.1	658.0	550.9	480.9	437.9	417.3	414.4
57.5°	1542.1	1507.9	1333.1	1070.6	831.7	671.0	557.4	480.3	434.4	412.0	408.5
60°	1581.5	1543.8	1360.2	1087.1	838.7	675.1	557.4	475.0	425.5	401.4	397.9
62°	1596.2	1552.7	1365.5	1089.5	835.8	671.0	553.3	466.2	413.8	390.2	386.7
62.5°	1596.8	1552.1	1363.7	1087.7	834.0	669.2	550.9	463.2	410.8	386.7	383.2
65°	1570.9	1526.2	1342.6	1069.4	814.0	653.3	534.4	446.1	390.2	366.7	363.2
67.5°	1496.8	1462.6	1291.9	1027.1	779.9	623.9	510.3	421.4	366.1	341.4	339.6
70°	1393.8	1362.6	1209.5	962.9	730.4	581.5	474.4	388.5	335.5	313.1	309.0
72.5°	1264.3	1223.7	1092.4	877.0	659.2	523.2	427.3	347.3	300.2	280.2	277.8
75°	1103.6	1054.7	945.3	763.4	573.9	453.2	372.6	301.4	259.6	242.5	244.3
77.5°	898.8	875.8	764.0	608.6	467.3	374.9	305.5	255.4	219.5	205.4	204.2
80°	678.6	656.9	578.6	462.0	353.1	283.7	236.6	201.3	176.6	164.2	163.6
82.5°	460.3	439.7	380.2	310.2	240.7	200.7	171.3	148.3	133.0	127.1	127.1
85°	253.1	235.4	201.3	167.7	136.0	114.8	110.7	98.9	94.8	93.6	94.8
87.5°	78.9	78.3	66.5	54.7	47.7	48.3	43.6	44.7	42.4	41.8	44.7
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)