

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: P472254

Luminaire Tested: **CCW-VA-2-850-U-T2**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472254
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-850-U-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3630.4 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

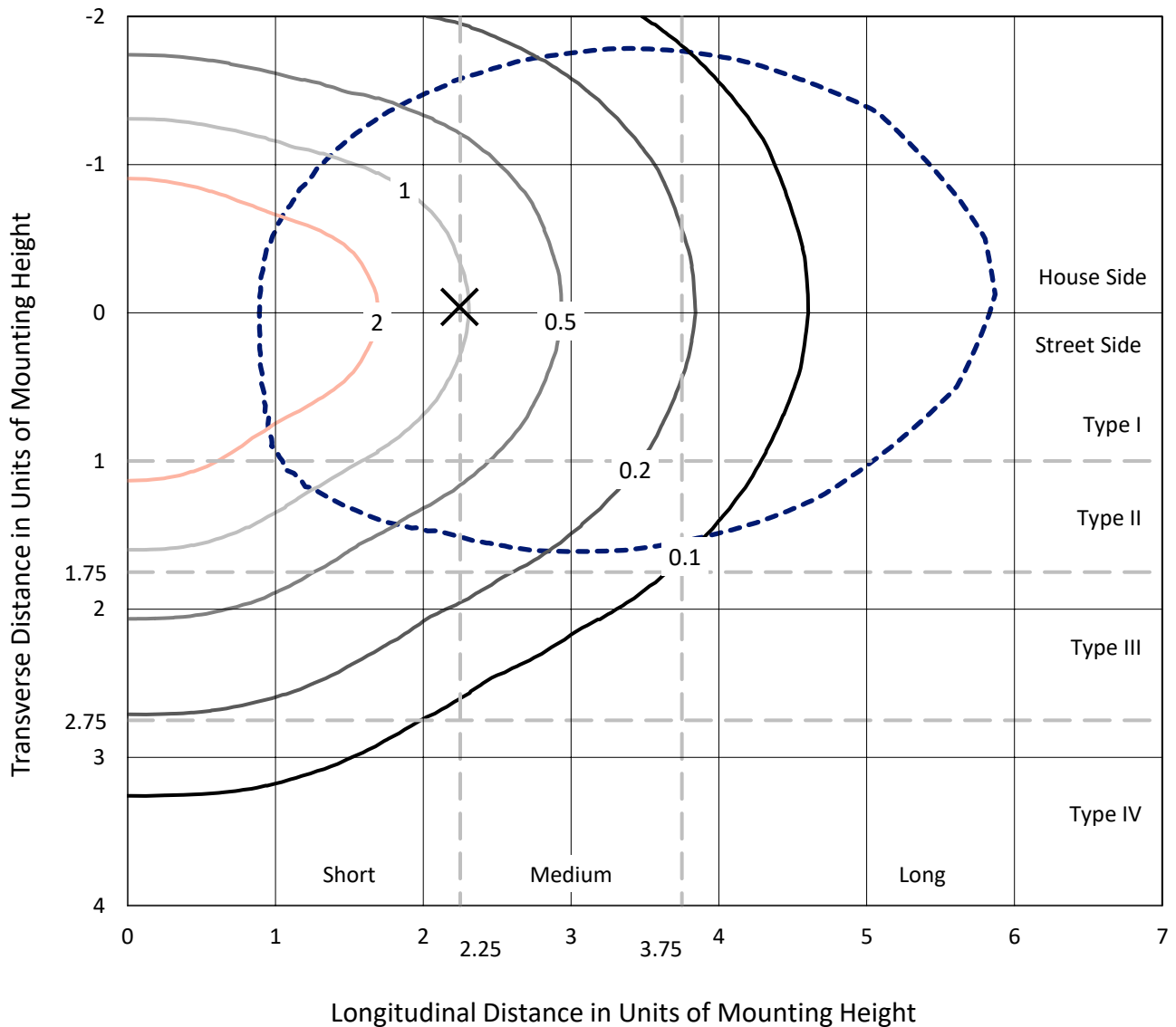
Input Watts (W): 40.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

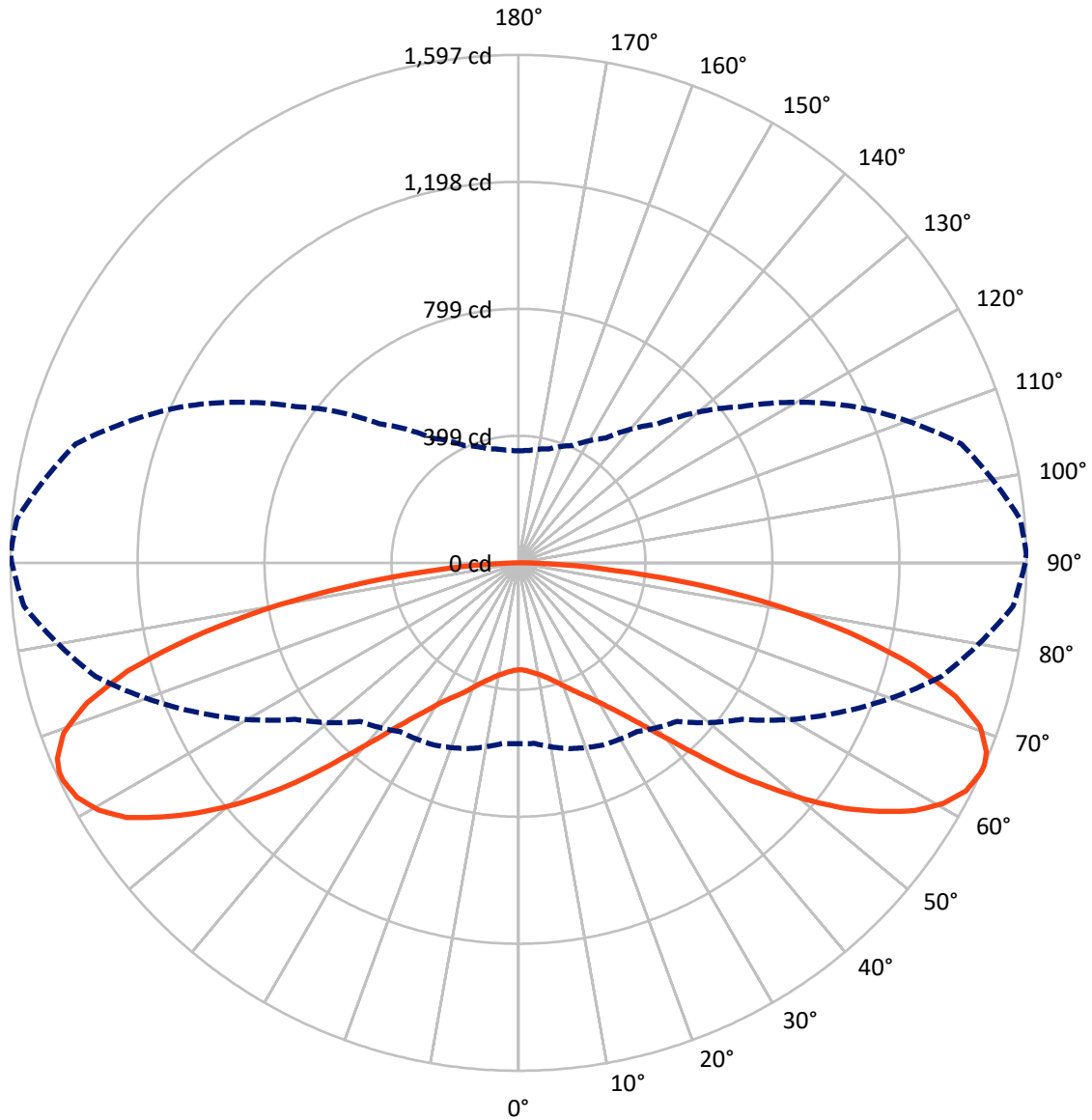
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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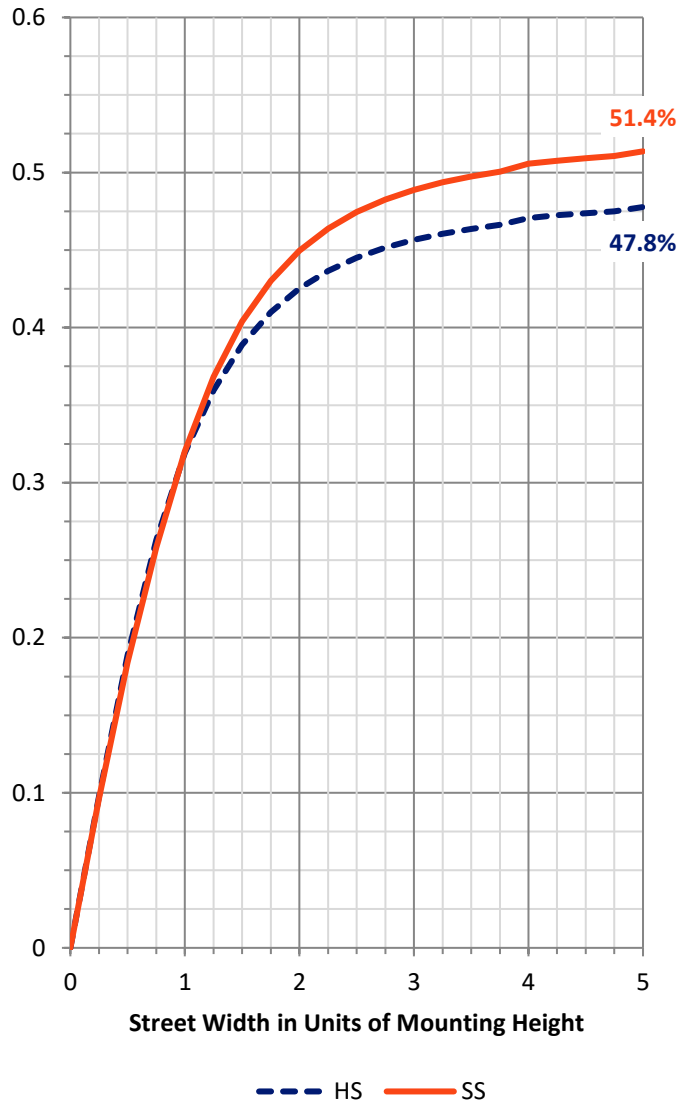
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1752.2	0.0	1752.2
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	1878.2	0.0	1878.2
	% Fixture	51.7	0.0	51.7
Total	Lumens	3630.4	0.0	3630.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	0.9
10°-20°	108.4	3.0
20°-30°	209.6	5.8
30°-40°	343.9	9.5
40°-50°	544.7	15.0
50°-60°	751.1	20.7
60°-70°	843.5	23.2
70°-80°	630.4	17.4
80°-90°	165.6	4.6
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°	3630.4	100.0
0°-180°	3630.4	100.0

Coefficient of Utilization

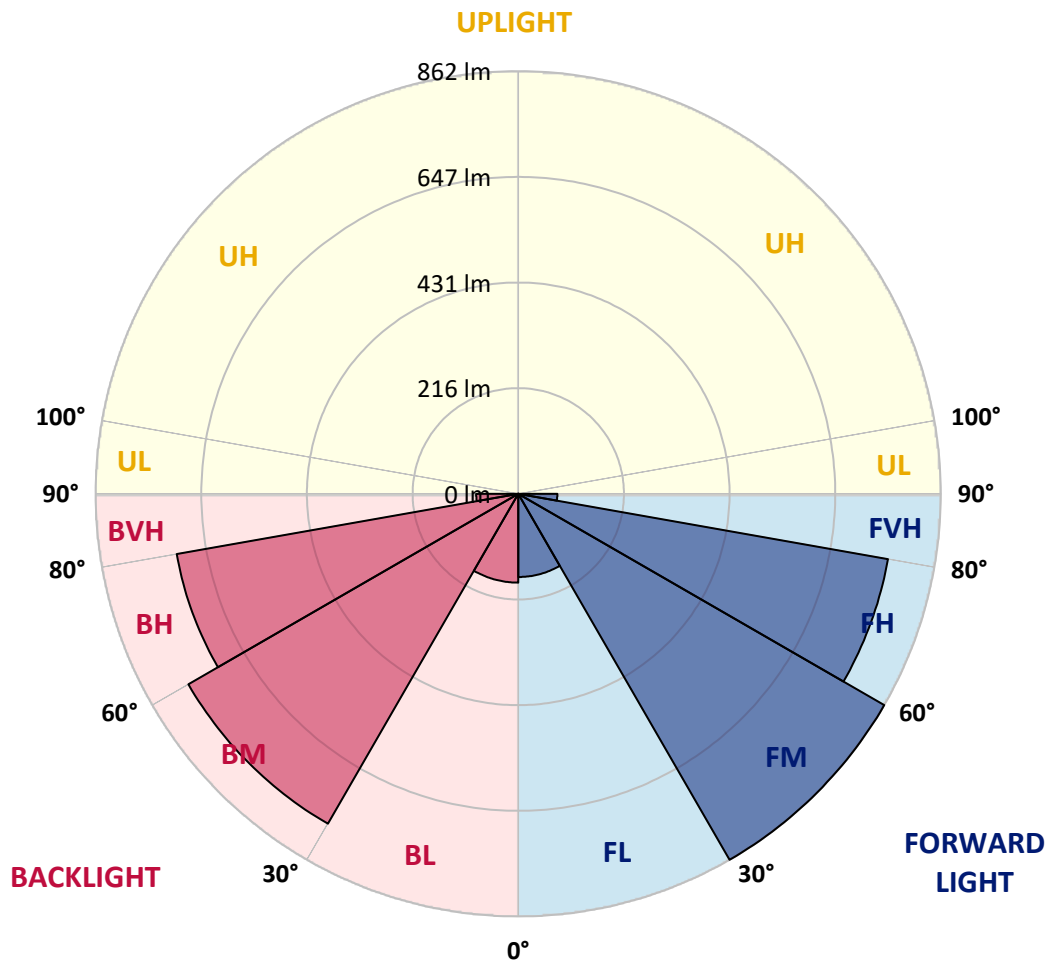


REPORT NUMBER: P472254
 CATALOG NUMBER: CCW-VA-2-850-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	169.7	4.7			
FM (30°-60°)	862.5	23.8			
FH (60°-80°)	766.2	21.1			G1/1800
FVH (80°-90°)	79.8	2.2			G1/100
BL (0°-30°)	181.3	5.0	B1/500		
BM (30°-60°)	777.3	21.4	B1/1000		
BH (60°-80°)	707.7	19.5	B2/1000		G2/1000
BVH (80°-90°)	85.9	2.4			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 II Short





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 CATALOG NUMBER: CCW-VA-2-850-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4
2.5°	337.7	337.7	337.7	337.7	339.0	339.0	339.0	339.0	339.0	337.7	337.7
5°	340.2	340.2	340.2	340.2	341.5	341.5	341.5	341.5	342.8	342.8	342.8
7.5°	342.8	342.8	344.1	344.1	345.4	345.4	346.7	346.7	348.0	349.2	349.2
10°	348.0	348.0	349.2	349.2	351.8	353.1	354.4	354.4	356.9	356.9	356.9
12.5°	354.4	355.7	356.9	358.2	360.8	362.1	363.4	364.6	365.9	367.2	367.2
15°	364.6	363.4	365.9	368.5	369.8	372.3	373.6	374.9	377.5	380.0	380.0
17.5°	372.3	373.6	374.9	377.5	380.0	383.9	386.5	389.0	391.6	394.2	394.2
20°	382.6	381.3	386.5	390.3	392.9	398.0	401.9	407.0	409.6	412.1	413.4
22.5°	391.6	392.9	395.5	400.6	405.7	413.4	421.1	425.0	428.8	431.4	435.3
25°	403.2	404.4	408.3	413.4	421.1	430.1	439.1	444.2	448.1	453.2	457.1
27.5°	414.7	414.7	421.1	428.8	437.8	449.4	459.7	464.8	471.2	477.6	480.2
30°	427.6	427.6	434.0	444.2	457.1	469.9	478.9	489.2	498.2	504.6	509.7
32.5°	446.8	446.8	454.5	464.8	478.9	494.3	507.2	517.4	529.0	540.5	550.8
35°	468.6	469.9	480.2	493.0	509.7	529.0	540.5	554.7	567.5	586.8	597.0
37.5°	503.3	504.6	516.1	532.8	549.5	570.1	589.3	606.0	625.3	647.1	654.8
40°	554.7	558.5	570.1	577.8	593.2	608.6	636.8	665.1	698.5	728.0	733.1
42.5°	647.1	643.3	635.6	633.0	636.8	653.5	684.3	728.0	787.1	824.3	824.3
45°	683.1	683.1	684.3	681.8	679.2	690.8	726.7	796.0	879.5	930.9	941.1
47.5°	689.5	690.8	702.3	712.6	715.2	728.0	771.7	862.8	974.5	1050.3	1056.7
50°	689.5	692.0	707.5	725.4	738.3	756.2	810.2	921.9	1068.2	1155.6	1172.2
52.5°	686.9	689.5	706.2	728.0	748.5	774.2	843.6	983.5	1151.7	1269.8	1277.5
55°	680.5	683.1	703.6	726.7	749.8	784.5	870.5	1036.1	1232.6	1364.8	1379.0
57.5°	672.8	676.6	698.5	722.9	744.7	787.1	888.5	1077.2	1298.1	1449.6	1475.3
60°	657.4	663.8	688.2	712.6	733.1	778.1	897.5	1109.3	1346.9	1511.2	1536.9
62.5°	626.6	633.0	660.0	686.9	707.5	756.2	892.3	1124.7	1375.1	1549.7	1576.7
65°	588.0	590.6	620.1	648.4	668.9	720.3	870.5	1122.2	1381.5	1562.6	1593.4
66°	568.8	570.1	604.7	631.7	648.4	704.9	857.7	1113.2	1377.7	1561.3	1593.4
67.5°	534.1	540.5	570.1	598.3	617.6	670.2	826.9	1092.6	1362.3	1548.4	1581.8
70°	473.8	478.9	503.3	531.6	552.1	602.2	760.1	1032.3	1305.8	1495.8	1534.3
72.5°	408.3	412.1	437.8	458.4	471.2	525.1	679.2	933.4	1206.9	1396.9	1434.2
75°	339.0	341.5	364.6	378.8	390.3	437.8	571.4	806.3	1051.6	1236.4	1285.2
77.5°	267.1	268.3	287.6	300.4	300.4	341.5	453.2	653.5	862.8	1033.6	1069.5
80°	196.4	195.2	206.7	213.1	217.0	244.0	326.1	480.2	657.4	790.9	825.6
82.5°	128.4	127.1	134.8	137.4	137.4	154.1	205.4	304.3	431.4	536.7	557.2
85°	68.0	70.6	69.3	69.3	69.3	75.8	102.7	159.2	229.8	287.6	301.7
87.5°	11.6	11.6	11.6	12.8	15.4	20.5	27.0	44.9	65.5	88.6	100.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P472254
 CATALOG NUMBER: CCW-VA-2-850-U-T2

CANDELA DISTRIBUTION (continued):

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4	336.4
2.5°	337.7	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0	339.0
5°	342.8	342.8	342.8	344.1	344.1	344.1	344.1	344.1	344.1	344.1	344.1
7.5°	349.2	349.2	350.5	350.5	350.5	351.8	351.8	350.5	350.5	350.5	350.5
10°	356.9	356.9	358.2	359.5	359.5	360.8	360.8	359.5	359.5	358.2	358.2
12.5°	367.2	368.5	369.8	371.1	372.3	372.3	371.1	369.8	368.5	367.2	367.2
15°	380.0	381.3	382.6	385.2	385.2	385.2	383.9	382.6	380.0	378.8	380.0
17.5°	395.5	396.7	399.3	400.6	401.9	400.6	400.6	399.3	399.3	398.0	398.0
20°	414.7	416.0	419.9	421.1	421.1	422.4	426.3	428.8	432.7	434.0	434.0
22.5°	434.0	436.5	440.4	445.5	448.1	453.2	454.5	457.1	455.8	452.0	452.0
25°	457.1	459.7	467.4	473.8	478.9	481.5	478.9	475.1	468.6	463.5	462.2
27.5°	481.5	485.3	496.9	505.9	508.4	505.9	495.6	486.6	478.9	472.5	469.9
30°	512.3	518.7	531.6	536.7	535.4	525.1	509.7	498.2	486.6	478.9	477.6
32.5°	550.8	557.2	568.8	570.1	562.4	543.1	522.6	507.2	493.0	484.0	482.8
35°	597.0	603.5	609.9	606.0	584.2	559.8	534.1	512.3	498.2	487.9	487.9
37.5°	656.1	660.0	660.0	640.7	607.3	575.2	543.1	517.4	502.0	491.8	490.5
40°	733.1	731.9	713.9	676.6	633.0	589.3	549.5	522.6	503.3	493.0	491.8
42.5°	825.6	816.6	778.1	717.7	657.4	602.2	557.2	523.9	502.0	491.8	490.5
45°	938.6	923.2	853.8	765.2	683.1	613.7	561.1	522.6	498.2	486.6	485.3
47.5°	1050.3	1041.3	946.3	815.3	708.7	626.6	563.7	518.7	490.5	473.8	473.8
50°	1168.4	1146.6	1038.7	875.7	735.7	635.6	563.7	512.3	477.6	459.7	457.1
52.5°	1282.7	1260.8	1132.4	936.0	765.2	644.5	561.1	503.3	466.1	446.8	444.2
55°	1380.2	1362.3	1223.6	1004.1	796.0	651.0	557.2	493.0	454.5	436.5	434.0
57.5°	1470.1	1452.1	1303.2	1061.8	825.6	654.8	548.2	480.2	440.4	422.4	421.1
60°	1535.6	1521.5	1371.3	1115.8	850.0	654.8	535.4	464.8	425.0	407.0	405.7
62.5°	1579.3	1565.1	1420.1	1151.7	865.4	645.8	516.1	444.2	405.7	389.0	385.2
65°	1596.0	1583.1	1441.9	1165.8	862.8	627.9	490.5	418.6	381.3	364.6	362.1
66°	1597.2	1583.1	1441.9	1163.3	856.4	617.6	478.9	407.0	371.1	354.4	351.8
67.5°	1587.0	1574.1	1432.9	1150.4	838.4	598.3	455.8	387.8	351.8	335.1	333.8
70°	1539.5	1529.2	1384.1	1101.6	796.0	556.0	417.3	350.5	315.9	304.3	300.4
72.5°	1436.7	1425.2	1286.5	1010.5	726.7	498.2	368.5	306.9	278.6	264.5	263.2
75°	1277.5	1272.4	1137.6	889.8	626.6	428.8	312.0	259.4	236.2	226.0	226.0
77.5°	1069.5	1059.3	945.0	735.7	514.9	346.7	250.4	210.6	192.6	183.6	184.9
80°	832.0	824.3	728.0	552.1	389.0	260.6	187.5	160.5	147.7	142.5	140.0
82.5°	570.1	549.5	485.3	365.9	252.9	175.9	129.7	111.7	105.3	104.0	102.7
85°	296.6	304.3	255.5	193.9	137.4	97.6	78.3	71.9	69.3	70.6	70.6
87.5°	97.6	100.1	77.0	59.1	44.9	34.7	29.5	28.2	24.4	27.0	28.2
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)