

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: P472239

Luminaire Tested: **CCW-VA-3-827-U-T2**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472239
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-827-U-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3881.4 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

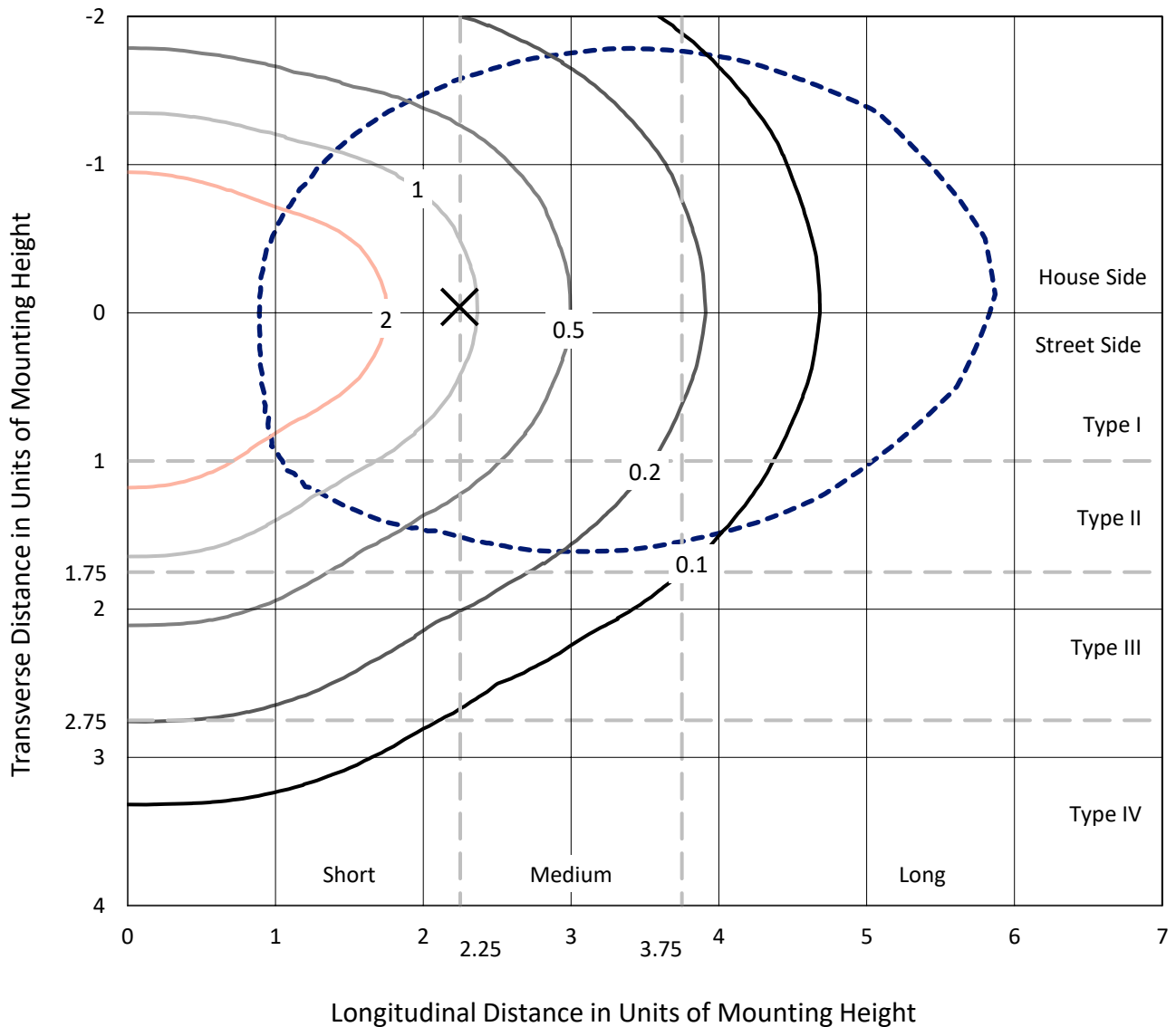
Input Watts (W): 48.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

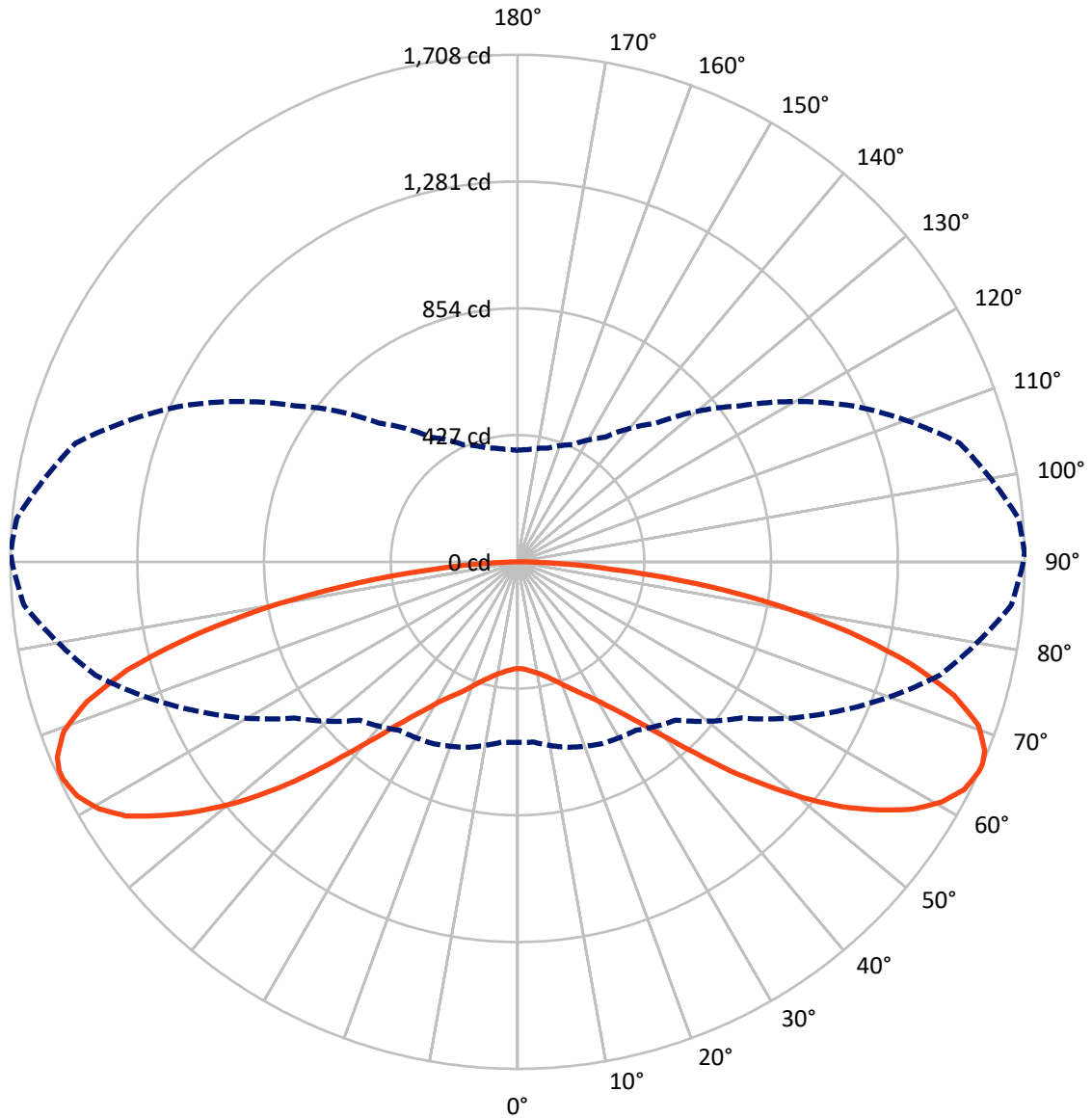
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.8 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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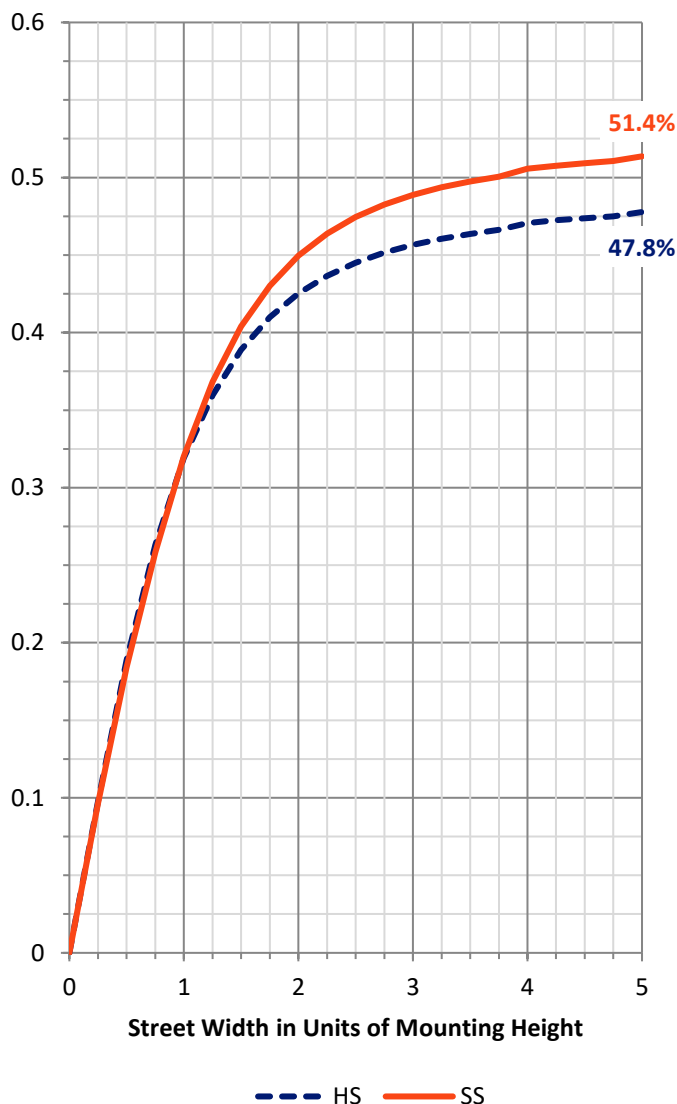
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1873.4	0.0	1873.4
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	2008.0	0.0	2008.0
	% Fixture	51.7	0.0	51.7
Total	Lumens	3881.4	0.0	3881.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.4	0.9
10°-20°	115.9	3.0
20°-30°	224.1	5.8
30°-40°	367.7	9.5
40°-50°	582.4	15.0
50°-60°	803.1	20.7
60°-70°	901.8	23.2
70°-80°	674.0	17.4
80°-90°	177.1	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°	3881.4	100.0
0°-180°	3881.4	100.0

Coefficient of Utilization



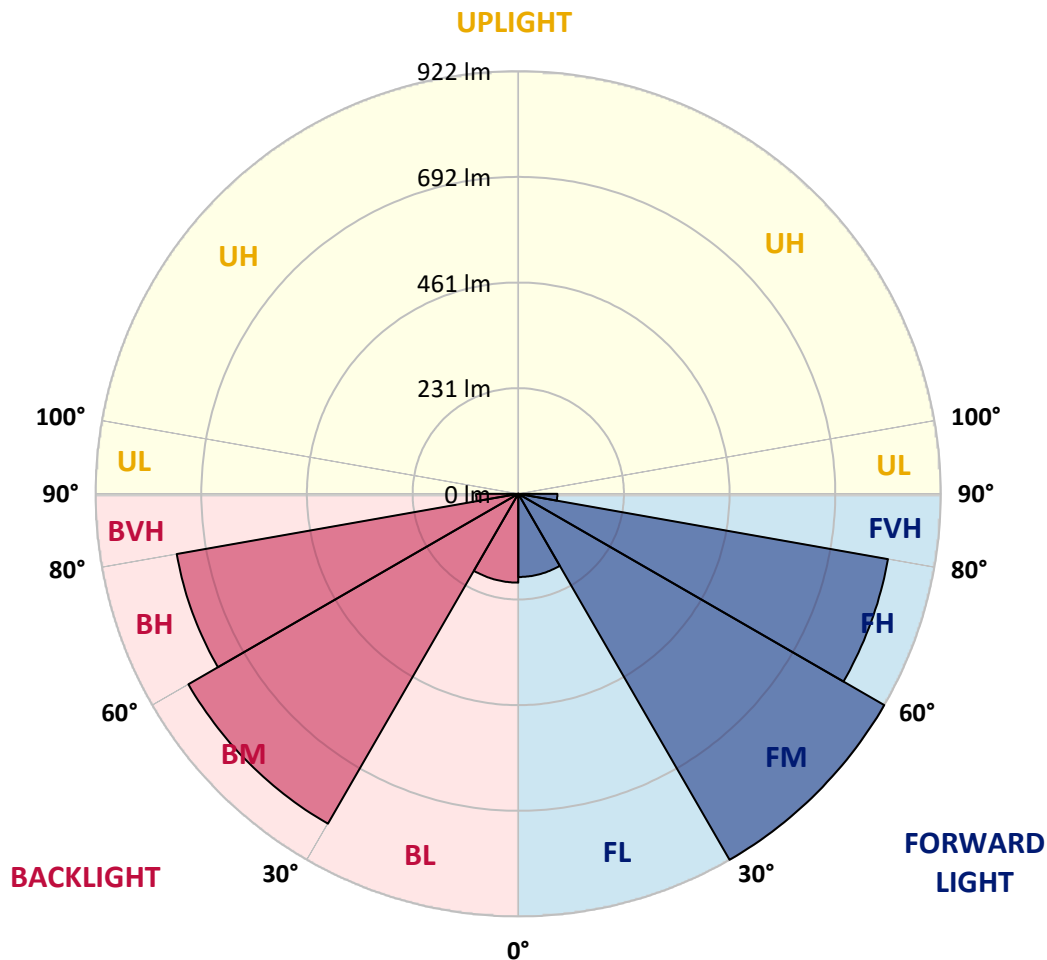
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	181.5	4.7			
FM (30°-60°)	922.1	23.8			
FH (60°-80°)	819.2	21.1			G1/1800
FVH (80°-90°)	85.3	2.2			G1/100
BL (0°-30°)	193.9	5.0	B1/500		
BM (30°-60°)	831.1	21.4	B1/1000		
BH (60°-80°)	756.6	19.5	B2/1000		G2/1000
BVH (80°-90°)	91.8	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7
2.5°	361.0	361.0	361.0	361.0	362.4	362.4	362.4	362.4	362.4	361.0	361.0
5°	363.8	363.8	363.8	363.8	365.1	365.1	365.1	365.1	366.5	366.5	366.5
7.5°	366.5	366.5	367.9	367.9	369.3	369.3	370.6	370.6	372.0	373.4	373.4
10°	372.0	372.0	373.4	373.4	376.1	377.5	378.9	378.9	381.6	381.6	381.6
12.5°	378.9	380.2	381.6	383.0	385.7	387.1	388.5	389.9	391.2	392.6	392.6
15°	389.9	388.5	391.2	394.0	395.3	398.1	399.5	400.8	403.6	406.3	406.3
17.5°	398.1	399.5	400.8	403.6	406.3	410.4	413.2	415.9	418.7	421.4	421.4
20°	409.1	407.7	413.2	417.3	420.1	425.5	429.7	435.2	437.9	440.6	442.0
22.5°	418.7	420.1	422.8	428.3	433.8	442.0	450.3	454.4	458.5	461.2	465.4
25°	431.0	432.4	436.5	442.0	450.3	459.9	469.5	475.0	479.1	484.6	488.7
27.5°	443.4	443.4	450.3	458.5	468.1	480.5	491.4	496.9	503.8	510.7	513.4
30°	457.1	457.1	464.0	475.0	488.7	502.4	512.0	523.0	532.6	539.5	545.0
32.5°	477.7	477.7	485.9	496.9	512.0	528.5	542.2	553.2	565.6	577.9	588.9
35°	501.0	502.4	513.4	527.1	545.0	565.6	577.9	593.0	606.7	627.3	638.3
37.5°	538.1	539.5	551.8	569.7	587.5	609.5	630.1	647.9	668.5	691.9	700.1
40°	593.0	597.1	609.5	617.7	634.2	650.7	680.9	711.1	746.8	778.3	783.8
42.5°	691.9	687.7	679.5	676.8	680.9	698.7	731.7	778.3	841.5	881.3	881.3
45°	730.3	730.3	731.7	728.9	726.2	738.5	777.0	851.1	940.3	995.2	1006.2
47.5°	737.2	738.5	750.9	761.9	764.6	778.3	825.0	922.5	1041.9	1122.9	1129.8
50°	737.2	739.9	756.4	775.6	789.3	808.5	866.2	985.6	1142.1	1235.5	1253.3
52.5°	734.4	737.2	755.0	778.3	800.3	827.8	901.9	1051.5	1231.3	1357.6	1365.9
55°	727.5	730.3	752.3	777.0	801.7	838.7	930.7	1107.8	1317.8	1459.2	1474.3
57.5°	719.3	723.4	746.8	772.8	796.2	841.5	949.9	1151.7	1387.8	1549.8	1577.3
60°	702.8	709.7	735.8	761.9	783.8	831.9	959.5	1186.0	1440.0	1615.7	1643.1
62.5°	669.9	676.8	705.6	734.4	756.4	808.5	954.0	1202.5	1470.2	1656.9	1685.7
65°	628.7	631.5	663.0	693.2	715.2	770.1	930.7	1199.8	1477.0	1670.6	1703.5
66°	608.1	609.5	646.6	675.4	693.2	753.6	917.0	1190.2	1472.9	1669.2	1703.5
67.5°	571.1	577.9	609.5	639.7	660.3	716.6	884.0	1168.2	1456.5	1655.5	1691.2
70°	506.5	512.0	538.1	568.3	590.3	643.8	812.7	1103.7	1396.1	1599.2	1640.4
72.5°	436.5	440.6	468.1	490.1	503.8	561.4	726.2	998.0	1290.4	1493.5	1533.3
75°	362.4	365.1	389.9	405.0	417.3	468.1	610.9	862.1	1124.3	1321.9	1374.1
77.5°	285.5	286.9	307.5	321.2	321.2	365.1	484.6	698.7	922.5	1105.0	1143.5
80°	210.0	208.7	221.0	227.9	232.0	260.8	348.7	513.4	702.8	845.6	882.7
82.5°	137.3	135.9	144.1	146.9	146.9	164.7	219.6	325.3	461.2	573.8	595.8
85°	72.8	75.5	74.1	74.1	74.1	81.0	109.8	170.2	245.7	307.5	322.6
87.5°	12.4	12.4	12.4	13.7	16.5	22.0	28.8	48.0	70.0	94.7	107.1
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):

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7	359.7
2.5°	361.0	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4	362.4
5°	366.5	366.5	366.5	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9
7.5°	373.4	373.4	374.8	374.8	374.8	376.1	376.1	374.8	374.8	374.8	374.8
10°	381.6	381.6	383.0	384.4	384.4	385.7	385.7	384.4	384.4	383.0	383.0
12.5°	392.6	394.0	395.3	396.7	398.1	398.1	396.7	395.3	394.0	392.6	392.6
15°	406.3	407.7	409.1	411.8	411.8	411.8	410.4	409.1	406.3	405.0	406.3
17.5°	422.8	424.2	426.9	428.3	429.7	428.3	428.3	426.9	426.9	425.5	425.5
20°	443.4	444.8	448.9	450.3	450.3	451.6	455.7	458.5	462.6	464.0	464.0
22.5°	464.0	466.7	470.8	476.3	479.1	484.6	485.9	488.7	487.3	483.2	483.2
25°	488.7	491.4	499.7	506.5	512.0	514.8	512.0	507.9	501.0	495.6	494.2
27.5°	514.8	518.9	531.2	540.9	543.6	540.9	529.9	520.3	512.0	505.2	502.4
30°	547.7	554.6	568.3	573.8	572.4	561.4	545.0	532.6	520.3	512.0	510.7
32.5°	588.9	595.8	608.1	609.5	601.3	580.7	558.7	542.2	527.1	517.5	516.1
35°	638.3	645.2	652.0	647.9	624.6	598.5	571.1	547.7	532.6	521.6	521.6
37.5°	701.5	705.6	705.6	685.0	649.3	615.0	580.7	553.2	536.7	525.8	524.4
40°	783.8	782.5	763.2	723.4	676.8	630.1	587.5	558.7	538.1	527.1	525.8
42.5°	882.7	873.1	831.9	767.4	702.8	643.8	595.8	560.1	536.7	525.8	524.4
45°	1003.5	987.0	912.9	818.1	730.3	656.2	599.9	558.7	532.6	520.3	518.9
47.5°	1122.9	1113.3	1011.7	871.7	757.7	669.9	602.6	554.6	524.4	506.5	506.5
50°	1249.2	1225.8	1110.5	936.2	786.6	679.5	602.6	547.7	510.7	491.4	488.7
52.5°	1371.4	1348.0	1210.7	1000.7	818.1	689.1	599.9	538.1	498.3	477.7	475.0
55°	1475.7	1456.5	1308.2	1073.5	851.1	696.0	595.8	527.1	485.9	466.7	464.0
57.5°	1571.8	1552.5	1393.3	1135.2	882.7	700.1	586.2	513.4	470.8	451.6	450.3
60°	1641.8	1626.7	1466.1	1192.9	908.7	700.1	572.4	496.9	454.4	435.2	433.8
62.5°	1688.4	1673.3	1518.2	1231.3	925.2	690.5	551.8	475.0	433.8	415.9	411.8
65°	1706.3	1692.6	1541.6	1246.4	922.5	671.3	524.4	447.5	407.7	389.9	387.1
66°	1707.7	1692.6	1541.6	1243.7	915.6	660.3	512.0	435.2	396.7	378.9	376.1
67.5°	1696.7	1683.0	1532.0	1230.0	896.4	639.7	487.3	414.6	376.1	358.3	356.9
70°	1645.9	1634.9	1479.8	1177.8	851.1	594.4	446.1	374.8	337.7	325.3	321.2
72.5°	1536.1	1523.7	1375.5	1080.3	777.0	532.6	394.0	328.1	297.9	282.8	281.4
75°	1365.9	1360.4	1216.2	951.3	669.9	458.5	333.6	277.3	252.6	241.6	241.6
77.5°	1143.5	1132.5	1010.3	786.6	550.5	370.6	267.7	225.1	205.9	196.3	197.7
80°	889.5	881.3	778.3	590.3	415.9	278.7	200.4	171.6	157.9	152.4	149.6
82.5°	609.5	587.5	518.9	391.2	270.4	188.1	138.6	119.4	112.6	111.2	109.8
85°	317.1	325.3	273.2	207.3	146.9	104.3	83.7	76.9	74.1	75.5	75.5
87.5°	104.3	107.1	82.4	63.1	48.0	37.1	31.6	30.2	26.1	28.8	30.2
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)