

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: P472343

Luminaire Tested: **CCW-VA-3-835-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472343
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-835-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: 4180.5 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

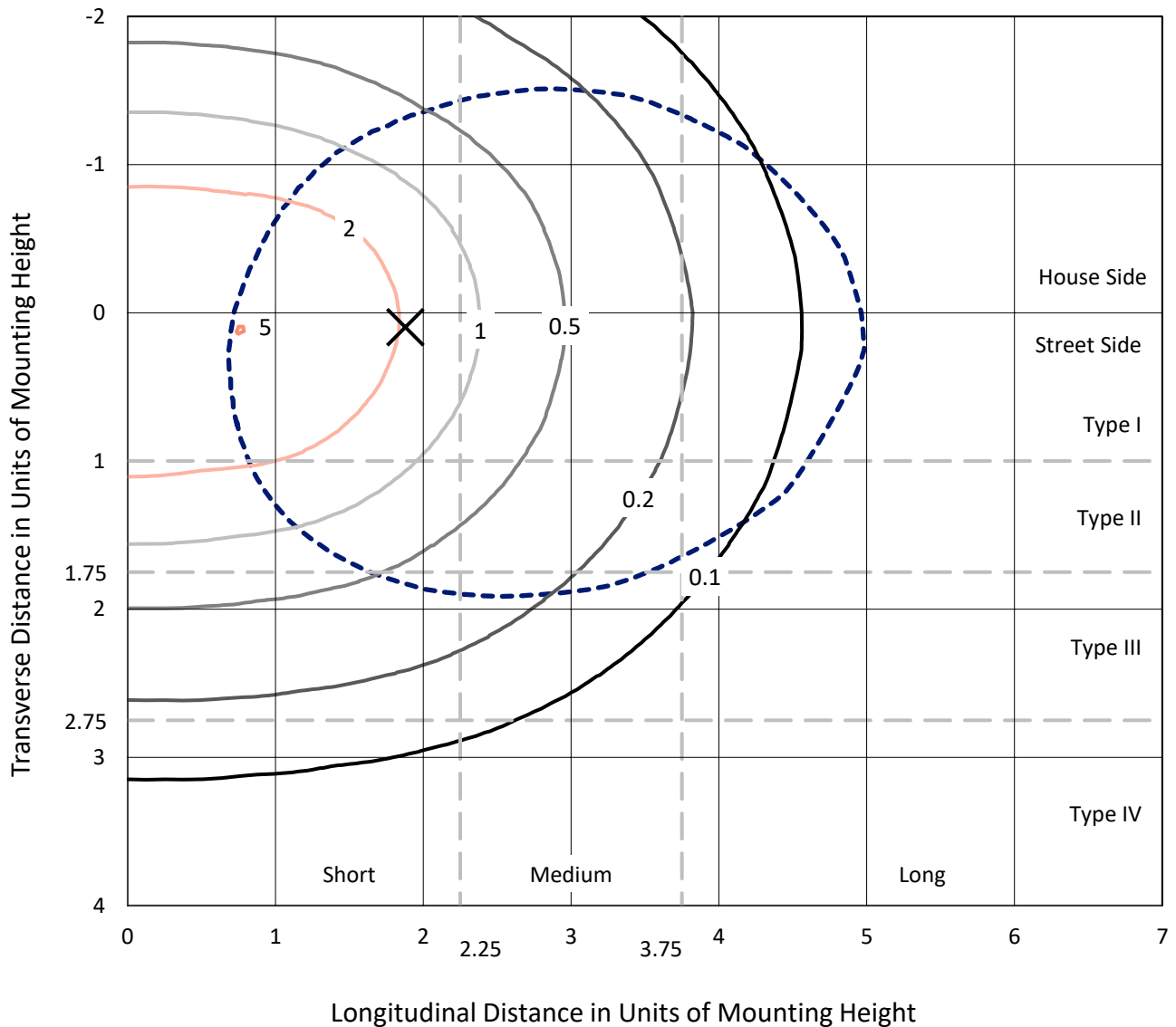
Input Watts (W): 48.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

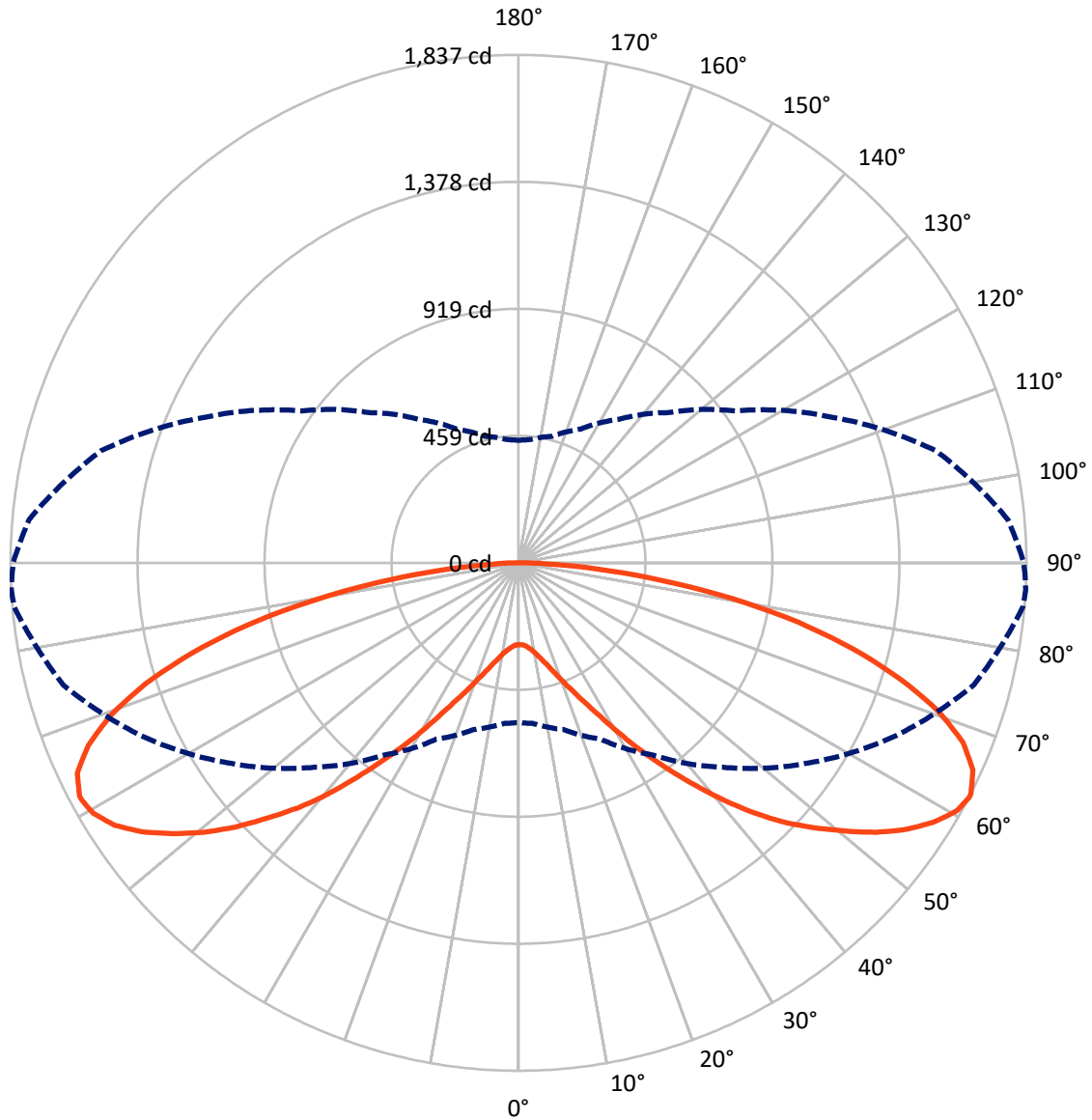
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 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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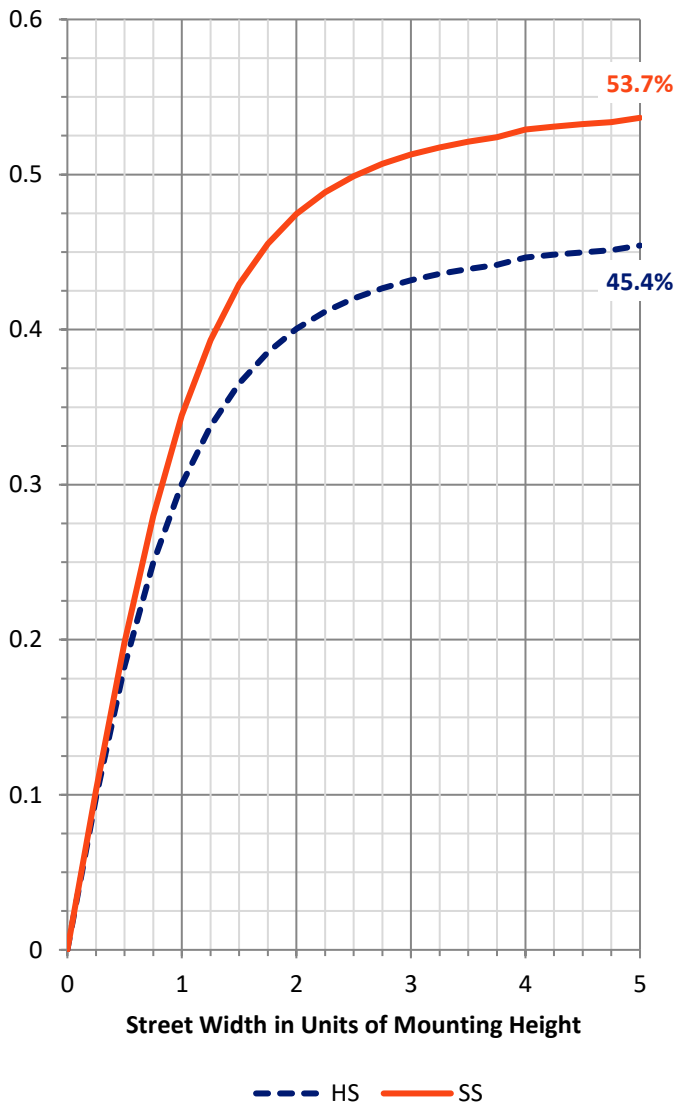
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1924.8	0.0	1924.8
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	2255.7	0.0	2255.7
	% Fixture	54.0	0.0	54.0
Total	Lumens	4180.5	0.0	4180.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	0.7
10°-20°	105.0	2.5
20°-30°	224.6	5.4
30°-40°	413.9	9.9
40°-50°	660.2	15.8
50°-60°	897.7	21.5
60°-70°	972.6	23.3
70°-80°	695.0	16.6
80°-90°	181.6	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°	4180.5	100.0
0°-180°	4180.5	100.0

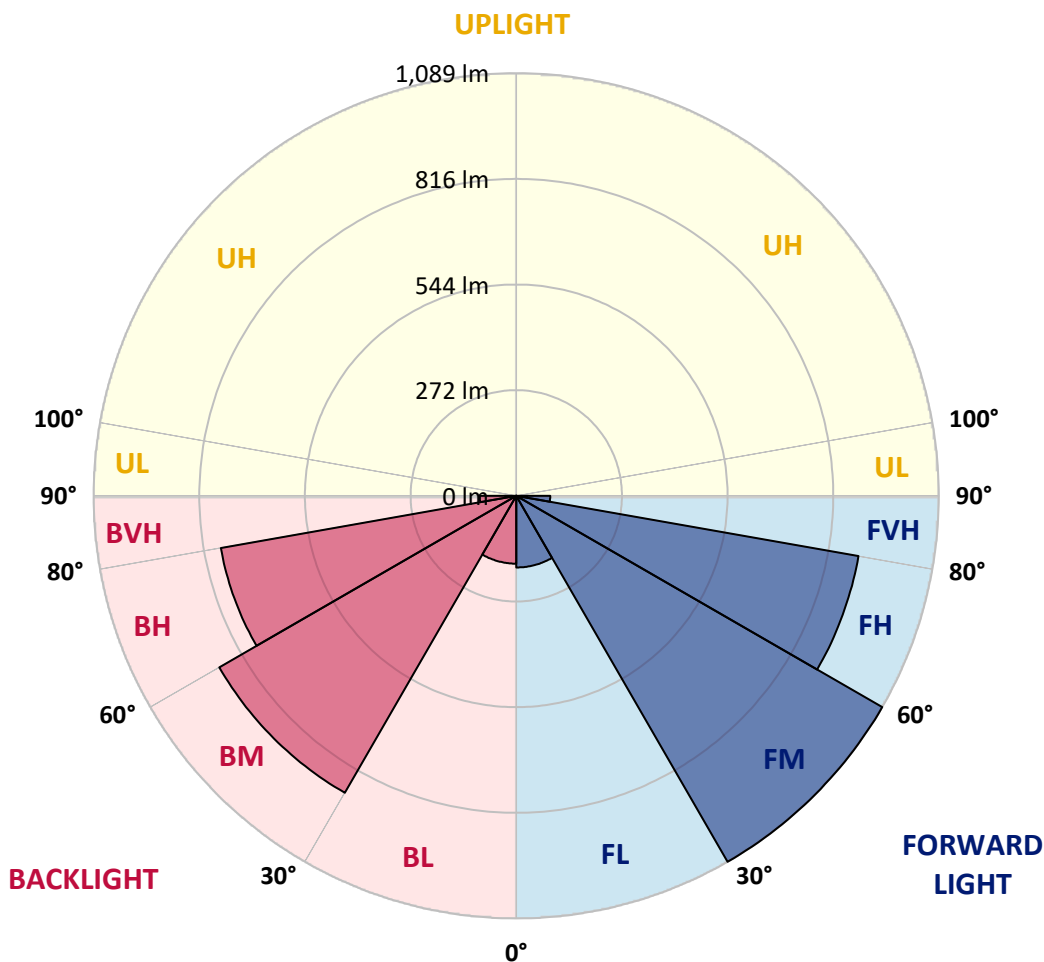


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	184.6	4.4			
FM (30°-60°)	1088.5	26.0			
FH (60°-80°)	895.1	21.4			G1/1800
FVH (80°-90°)	87.5	2.1			G1/100
BL (0°-30°)	174.8	4.2	B1/500		
BM (30°-60°)	883.3	21.1	B1/1000		
BH (60°-80°)	772.6	18.5	B2/1000		G2/1000
BVH (80°-90°)	94.2	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°	295.9	295.9	295.9	295.9	295.9	295.9	295.9	295.9	295.9	295.9	295.9
2.5°	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	296.5	297.2	297.2
5°	298.6	297.9	297.9	298.6	299.2	299.9	301.2	301.9	303.3	304.6	303.9
7.5°	304.6	304.6	304.6	305.3	307.3	308.7	310.7	312.7	314.7	316.1	315.4
10°	314.1	314.1	314.1	315.4	317.4	321.5	324.8	328.2	330.2	331.6	332.2
12.5°	324.2	324.2	325.5	328.2	332.2	337.6	343.7	348.4	351.8	353.1	353.8
15°	338.3	339.0	341.7	344.4	349.8	357.9	368.0	374.7	378.1	380.8	380.1
17.5°	359.9	359.2	361.2	367.3	373.4	384.8	396.9	408.4	415.1	415.1	415.1
20°	384.1	383.5	384.8	389.5	399.6	415.1	434.0	449.5	456.9	455.6	456.9
22.5°	411.1	411.1	412.4	416.5	426.6	448.8	475.1	498.0	508.1	504.8	503.4
25°	440.8	440.8	442.8	446.1	460.3	487.3	522.3	555.3	565.4	562.1	560.7
27.5°	475.1	472.4	476.5	479.8	497.4	533.1	578.9	620.7	642.9	631.5	627.4
30°	511.5	509.5	510.2	516.9	537.1	583.0	637.5	693.5	724.5	717.1	711.0
32.5°	543.2	544.5	546.6	558.0	580.9	636.2	699.5	773.0	808.0	806.0	804.7
35°	578.9	578.9	583.0	593.7	627.4	692.8	769.6	852.5	904.4	906.4	902.4
37.5°	607.2	607.2	613.3	627.4	667.2	744.7	839.0	936.8	999.4	1010.2	1006.9
40°	632.2	630.8	637.5	658.4	704.9	800.0	907.1	1020.3	1104.6	1122.8	1118.1
42.5°	647.0	648.3	657.8	684.0	741.3	848.5	973.8	1099.2	1197.6	1228.6	1228.6
45°	657.8	659.1	673.3	704.3	774.4	896.3	1034.5	1180.1	1288.6	1333.7	1335.7
47.5°	662.5	664.5	682.0	719.8	802.0	940.1	1093.1	1252.8	1370.1	1434.1	1430.1
50°	662.5	665.2	686.1	731.2	826.9	977.2	1148.4	1322.3	1453.0	1524.4	1523.8
52.5°	658.4	661.8	687.4	740.0	847.8	1012.9	1197.6	1381.6	1532.5	1616.8	1619.5
55°	650.3	654.4	684.0	745.4	864.0	1041.2	1237.3	1436.8	1601.3	1696.3	1702.4
57.5°	634.2	638.2	671.9	740.7	870.0	1056.1	1266.3	1475.9	1657.2	1768.4	1769.8
60°	607.2	611.9	648.3	725.2	864.0	1056.7	1273.7	1493.4	1694.9	1816.9	1821.6
62°	577.6	583.0	624.1	703.6	848.5	1045.9	1265.6	1492.8	1705.1	1831.1	1837.1
62.5°	570.1	574.9	616.7	696.2	842.4	1040.6	1260.9	1489.4	1703.7	1831.8	1836.5
65°	524.3	529.0	571.5	655.7	805.4	1007.5	1226.6	1459.7	1679.4	1804.8	1806.1
67.5°	473.8	478.5	521.0	600.5	752.1	952.3	1168.6	1401.1	1614.7	1723.3	1733.4
70°	415.1	421.9	461.0	539.8	682.0	872.7	1076.9	1308.1	1511.6	1604.0	1613.4
72.5°	357.2	361.9	392.9	462.3	591.0	768.3	958.3	1167.3	1352.6	1440.2	1448.3
75°	289.8	293.8	324.2	381.4	489.3	640.2	819.5	1002.1	1170.6	1249.5	1255.5
77.5°	228.5	229.8	251.4	297.2	380.1	502.1	650.3	794.6	947.6	1019.0	1035.2
80°	161.1	167.8	182.6	214.3	266.9	359.9	467.0	590.4	697.5	777.7	783.1
82.5°	104.5	105.8	115.2	126.7	164.4	227.1	297.2	373.4	469.1	521.0	516.9
85°	54.6	54.6	58.0	61.3	74.1	101.8	143.5	196.8	252.7	291.8	286.4
87.5°	9.4	8.8	9.4	8.8	11.5	16.2	30.3	49.2	74.1	87.6	96.4
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°	295.9	295.9	295.9	295.9	295.9	295.9	295.9	295.9	295.9	295.9	295.9
2.5°	297.2	297.2	297.9	299.2	299.2	299.9	300.6	300.6	301.2	301.9	301.9
5°	305.3	305.3	306.0	307.3	308.0	308.0	308.7	309.3	309.3	309.3	310.0
7.5°	316.1	316.7	317.4	318.1	318.8	318.8	320.8	320.1	320.1	320.1	320.1
10°	331.6	332.9	332.9	332.9	332.9	332.2	332.9	332.2	330.9	330.9	330.2
12.5°	354.5	354.5	353.1	351.8	349.8	349.1	348.4	346.4	343.7	342.4	342.4
15°	380.8	379.4	376.7	374.0	370.7	368.0	363.3	360.6	357.2	355.8	355.8
17.5°	414.5	412.4	405.0	399.6	391.6	385.5	380.1	374.7	370.7	369.3	368.6
20°	452.9	448.2	437.4	425.3	414.5	405.0	394.9	388.2	384.1	380.8	380.1
22.5°	501.4	494.7	475.8	456.9	437.4	423.9	411.1	401.7	394.3	390.9	389.5
25°	554.0	543.9	519.6	491.3	464.3	443.4	427.3	414.5	405.7	400.3	399.0
27.5°	620.7	605.9	570.1	527.7	492.0	465.7	443.4	428.6	417.2	409.1	407.7
30°	698.9	683.4	624.1	568.1	523.0	485.9	461.6	442.1	427.9	418.5	416.5
32.5°	791.9	763.6	695.5	616.7	554.6	509.5	478.5	455.6	438.1	427.3	424.6
35°	886.2	857.2	767.6	667.9	588.3	533.8	496.7	469.1	449.5	436.0	434.7
37.5°	992.0	957.0	851.9	725.8	624.7	559.4	513.5	481.9	458.3	444.1	442.8
40°	1105.9	1070.2	942.2	792.5	667.9	584.3	529.7	494.0	467.7	452.2	450.2
42.5°	1217.8	1175.3	1033.8	859.3	711.7	611.9	548.6	506.8	475.8	459.6	456.9
45°	1314.8	1277.8	1126.8	936.1	762.2	640.2	567.5	518.9	484.6	466.4	463.7
47.5°	1424.7	1384.9	1228.6	1006.9	810.7	672.6	585.6	529.7	492.0	472.4	470.4
50°	1521.7	1486.0	1318.9	1072.2	857.2	702.9	602.5	539.8	498.0	477.1	474.4
52.5°	1610.0	1578.4	1401.8	1133.6	897.0	731.2	618.0	547.2	502.1	479.2	475.8
55°	1699.0	1657.9	1473.9	1187.5	928.7	753.5	630.8	550.6	501.4	477.8	474.4
57.5°	1765.7	1726.6	1526.5	1225.9	952.3	768.3	638.2	549.9	497.4	471.8	467.7
60°	1810.9	1767.7	1557.5	1244.8	960.4	773.0	638.2	543.9	487.3	459.6	455.6
62°	1827.7	1777.8	1563.5	1247.5	957.0	768.3	633.5	533.8	473.8	446.8	442.8
62.5°	1828.4	1777.2	1561.5	1245.4	955.0	766.3	630.8	530.4	470.4	442.8	438.7
65°	1798.7	1747.5	1537.2	1224.5	932.1	748.1	611.9	510.8	446.8	419.9	415.8
67.5°	1713.8	1674.7	1479.3	1176.0	893.0	714.4	584.3	482.5	419.2	390.9	388.9
70°	1595.9	1560.2	1384.9	1102.6	836.4	665.8	543.2	444.8	384.1	358.5	353.8
72.5°	1447.6	1401.1	1250.8	1004.2	754.8	599.1	489.3	397.6	343.7	320.8	318.1
75°	1263.6	1207.7	1082.3	874.1	657.1	518.9	426.6	345.1	297.2	277.7	279.7
77.5°	1029.1	1002.8	874.8	696.8	535.1	429.3	349.8	292.5	251.4	235.2	233.9
80°	777.0	752.1	662.5	529.0	404.4	324.8	270.9	230.5	202.2	188.0	187.4
82.5°	527.0	503.4	435.4	355.2	275.6	229.8	196.1	169.8	152.3	145.6	145.6
85°	289.8	269.6	230.5	192.1	155.7	131.4	126.7	113.2	108.5	107.2	108.5
87.5°	90.3	89.6	76.2	62.7	54.6	55.3	49.9	51.2	48.5	47.8	51.2
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)