

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: P472247

Luminaire Tested: **CCW-VA-3-835-U-T2**

Issue Date: 01/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P472247  
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-T2  
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

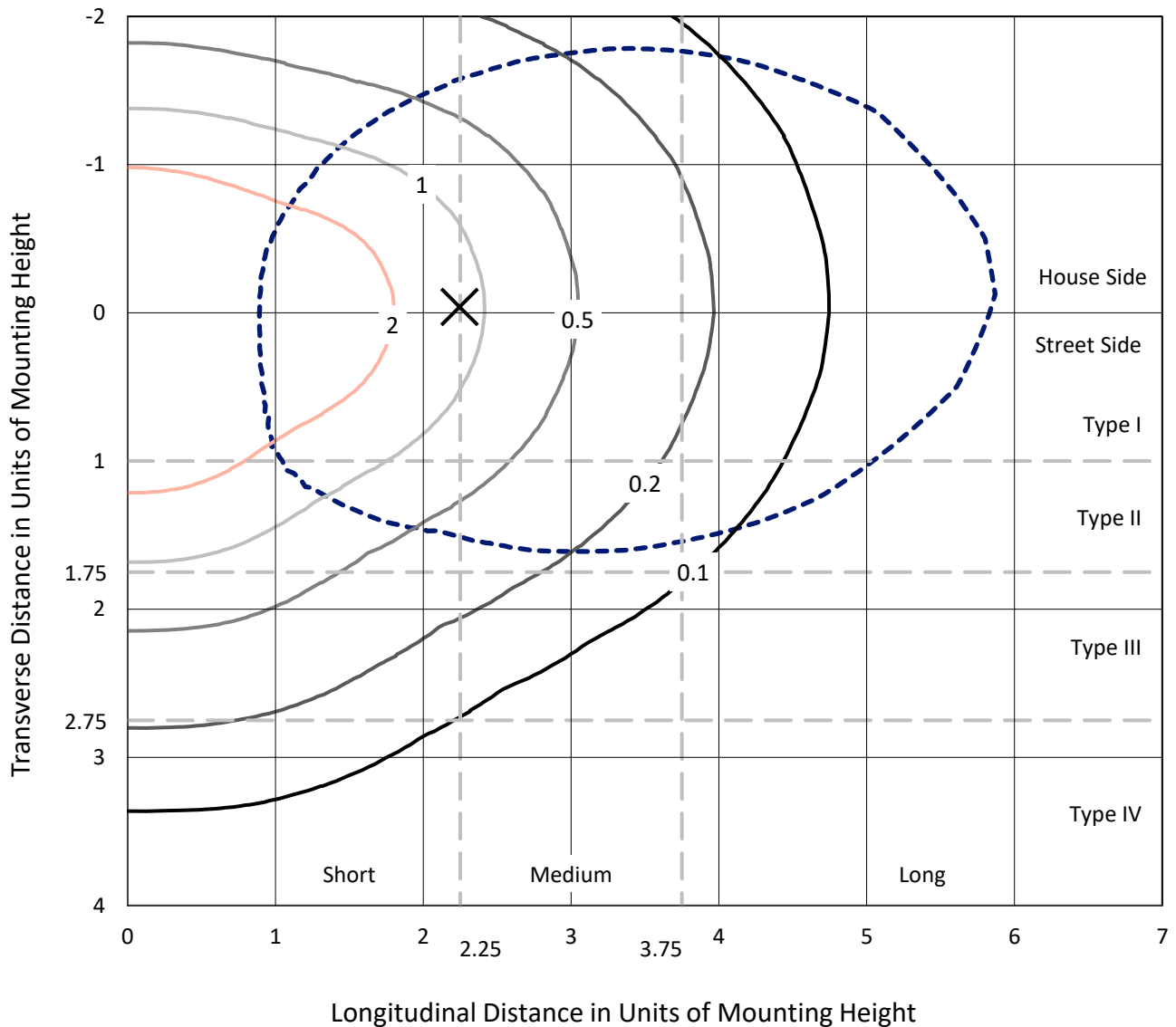
Lumens per Lamp: N/A  
Luminaire Lumens: 4096.4 lumens  
Efficiency: N/A  
Efficacy: 84.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 48.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

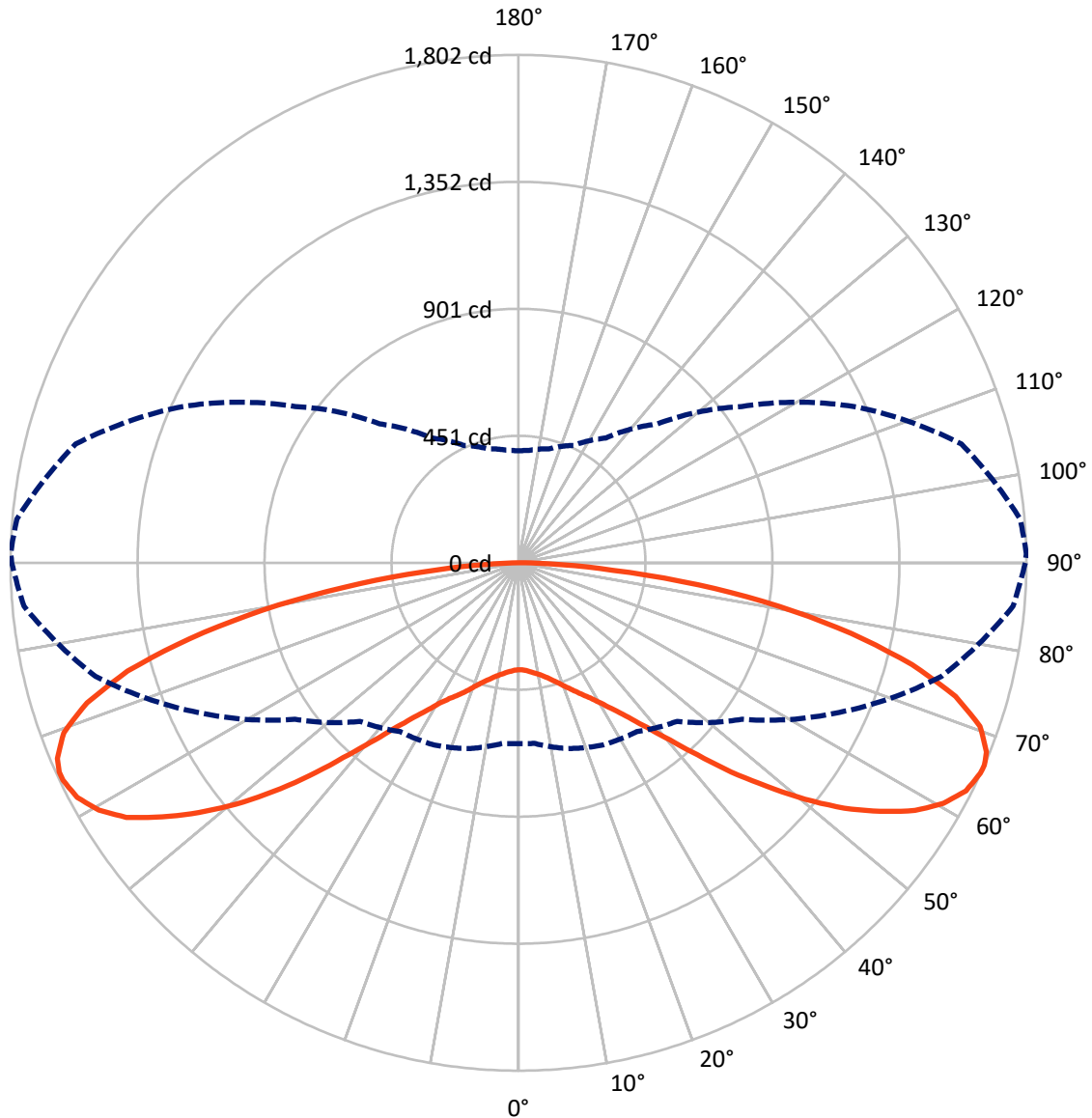
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.1 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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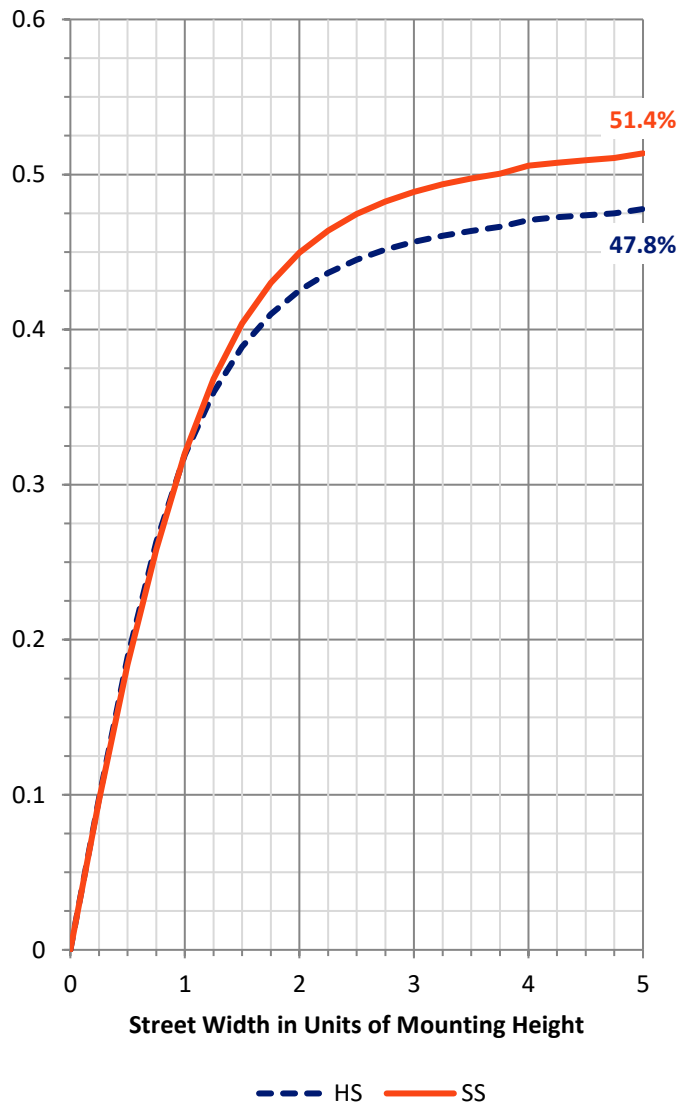
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1977.1	0.0	1977.1
	% Fixture	48.3	0.0	48.3
<b>Street Side</b>	Lumens	2119.2	0.0	2119.2
	% Fixture	51.7	0.0	51.7
<b>Total</b>	Lumens	4096.4	0.0	4096.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.4	0.9
10°-20°	122.3	3.0
20°-30°	236.5	5.8
30°-40°	388.1	9.5
40°-50°	614.7	15.0
50°-60°	847.5	20.7
60°-70°	951.8	23.2
70°-80°	711.3	17.4
80°-90°	186.9	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°	4096.4	100.0
0°-180°	4096.4	100.0

**Coefficient of Utilization**

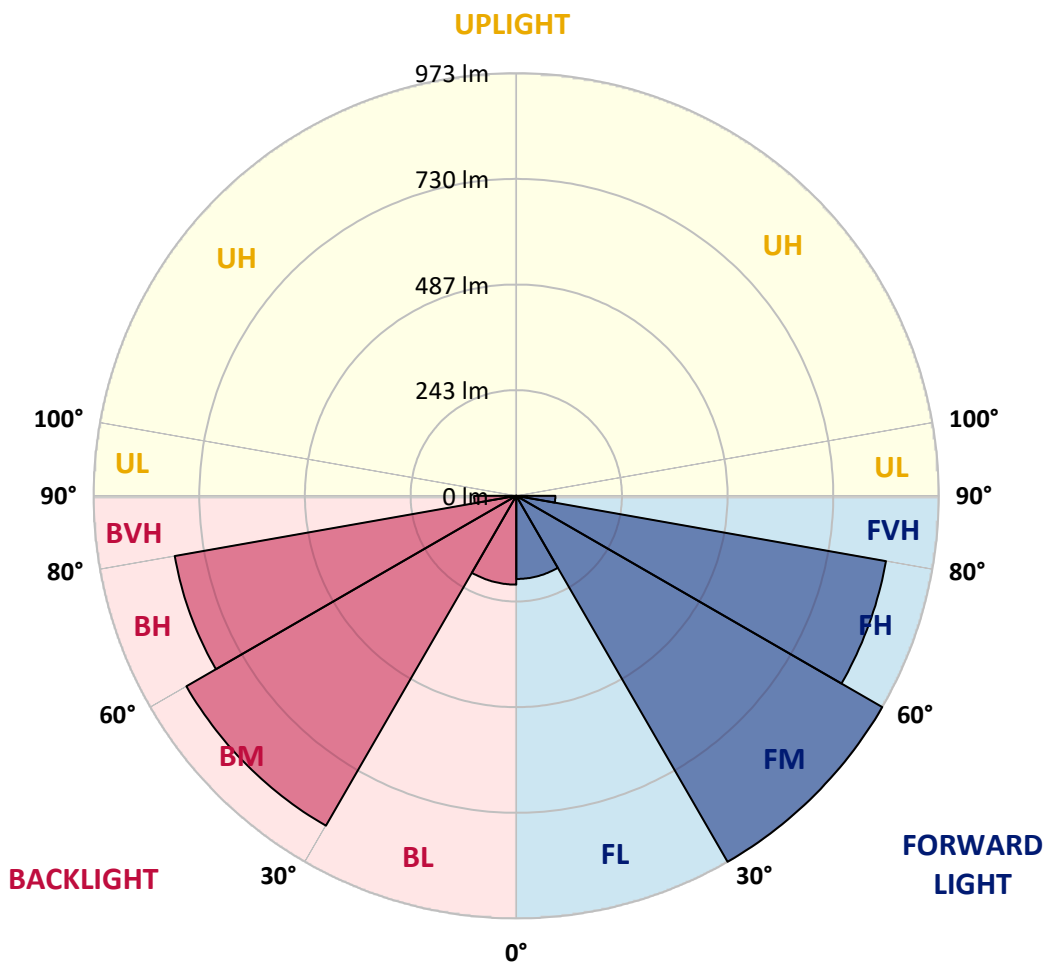


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	191.5	4.7			
FM (30°-60°)	973.2	23.8			
FH (60°-80°)	864.5	21.1			G1/1800
FVH (80°-90°)	90.0	2.2			G1/100
BL (0°-30°)	204.6	5.0	B1/500		
BM (30°-60°)	877.1	21.4	B1/1000		
BH (60°-80°)	798.5	19.5	B2/1000		G2/1000
BVH (80°-90°)	96.9	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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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6
2.5°	381.0	381.0	381.0	381.0	382.5	382.5	382.5	382.5	382.5	381.0	381.0
5°	383.9	383.9	383.9	383.9	385.4	385.4	385.4	385.4	386.8	386.8	386.8
7.5°	386.8	386.8	388.3	388.3	389.7	389.7	391.2	391.2	392.6	394.1	394.1
10°	392.6	392.6	394.1	394.1	397.0	398.4	399.9	399.9	402.8	402.8	402.8
12.5°	399.9	401.3	402.8	404.2	407.1	408.5	410.0	411.4	412.9	414.3	414.3
15°	411.4	410.0	412.9	415.8	417.2	420.1	421.6	423.0	425.9	428.8	428.8
17.5°	420.1	421.6	423.0	425.9	428.8	433.2	436.1	439.0	441.9	444.8	444.8
20°	431.7	430.3	436.1	440.4	443.3	449.1	453.5	459.3	462.2	465.0	466.5
22.5°	441.9	443.3	446.2	452.0	457.8	466.5	475.2	479.5	483.9	486.8	491.1
25°	454.9	456.4	460.7	466.5	475.2	485.3	495.5	501.3	505.6	511.4	515.8
27.5°	467.9	467.9	475.2	483.9	494.0	507.1	518.7	524.4	531.7	538.9	541.8
30°	482.4	482.4	489.7	501.3	515.8	530.2	540.4	552.0	562.1	569.4	575.2
32.5°	504.2	504.2	512.9	524.4	540.4	557.8	572.3	583.8	596.9	609.9	621.5
35°	528.8	530.2	541.8	556.3	575.2	596.9	609.9	625.9	640.3	662.1	673.7
37.5°	567.9	569.4	582.4	601.2	620.1	643.2	665.0	683.8	705.5	730.2	738.9
40°	625.9	630.2	643.2	651.9	669.3	686.7	718.6	750.5	788.1	821.4	827.2
42.5°	730.2	725.8	717.1	714.2	718.6	737.4	772.2	821.4	888.1	930.1	930.1
45°	770.7	770.7	772.2	769.3	766.4	779.4	820.0	898.2	992.4	1050.3	1061.9
47.5°	778.0	779.4	792.5	804.1	807.0	821.4	870.7	973.6	1099.6	1185.1	1192.3
50°	778.0	780.9	798.3	818.5	833.0	853.3	914.2	1040.2	1205.4	1303.9	1322.7
52.5°	775.1	778.0	796.8	821.4	844.6	873.6	951.8	1109.7	1299.5	1432.8	1441.5
55°	767.8	770.7	793.9	820.0	846.1	885.2	982.3	1169.1	1390.8	1540.0	1556.0
57.5°	759.1	763.5	788.1	815.6	840.3	888.1	1002.5	1215.5	1464.7	1635.6	1664.6
60°	741.8	749.0	776.5	804.1	827.2	877.9	1012.7	1251.7	1519.7	1705.2	1734.2
62.5°	707.0	714.2	744.7	775.1	798.3	853.3	1006.9	1269.1	1551.6	1748.6	1779.1
65°	663.5	666.4	699.7	731.6	754.8	812.7	982.3	1266.2	1558.9	1763.1	1797.9
66°	641.8	643.2	682.4	712.8	731.6	795.4	967.8	1256.1	1554.5	1761.7	1797.9
67.5°	602.7	609.9	643.2	675.1	696.8	756.2	933.0	1232.9	1537.1	1747.2	1784.9
70°	534.6	540.4	567.9	599.8	623.0	679.5	857.7	1164.8	1473.4	1687.8	1731.3
72.5°	460.7	465.0	494.0	517.2	531.7	592.5	766.4	1053.2	1361.8	1576.2	1618.3
75°	382.5	385.4	411.4	427.4	440.4	494.0	644.7	909.8	1186.5	1395.1	1450.2
77.5°	301.3	302.8	324.5	339.0	339.0	385.4	511.4	737.4	973.6	1166.2	1206.8
80°	221.7	220.2	233.2	240.5	244.8	275.3	368.0	541.8	741.8	892.4	931.5
82.5°	144.9	143.4	152.1	155.0	155.0	173.9	231.8	343.4	486.8	605.6	628.8
85°	76.8	79.7	78.2	78.2	78.2	85.5	115.9	179.6	259.3	324.5	340.5
87.5°	13.0	13.0	13.0	14.5	17.4	23.2	30.4	50.7	73.9	100.0	113.0
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°	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6	379.6
2.5°	381.0	382.5	382.5	382.5	382.5	382.5	382.5	382.5	382.5	382.5	382.5
5°	386.8	386.8	386.8	388.3	388.3	388.3	388.3	388.3	388.3	388.3	388.3
7.5°	394.1	394.1	395.5	395.5	395.5	397.0	397.0	395.5	395.5	395.5	395.5
10°	402.8	402.8	404.2	405.7	405.7	407.1	407.1	405.7	405.7	404.2	404.2
12.5°	414.3	415.8	417.2	418.7	420.1	420.1	418.7	417.2	415.8	414.3	414.3
15°	428.8	430.3	431.7	434.6	434.6	434.6	433.2	431.7	428.8	427.4	428.8
17.5°	446.2	447.7	450.6	452.0	453.5	452.0	452.0	450.6	450.6	449.1	449.1
20°	467.9	469.4	473.7	475.2	475.2	476.6	481.0	483.9	488.2	489.7	489.7
22.5°	489.7	492.6	496.9	502.7	505.6	511.4	512.9	515.8	514.3	510.0	510.0
25°	515.8	518.7	527.3	534.6	540.4	543.3	540.4	536.0	528.8	523.0	521.6
27.5°	543.3	547.6	560.7	570.8	573.7	570.8	559.2	549.1	540.4	533.1	530.2
30°	578.1	585.3	599.8	605.6	604.1	592.5	575.2	562.1	549.1	540.4	538.9
32.5°	621.5	628.8	641.8	643.2	634.6	612.8	589.6	572.3	556.3	546.2	544.7
35°	673.7	680.9	688.2	683.8	659.2	631.7	602.7	578.1	562.1	550.5	550.5
37.5°	740.3	744.7	744.7	722.9	685.3	649.0	612.8	583.8	566.5	554.9	553.4
40°	827.2	825.8	805.5	763.5	714.2	665.0	620.1	589.6	567.9	556.3	554.9
42.5°	931.5	921.4	877.9	809.9	741.8	679.5	628.8	591.1	566.5	554.9	553.4
45°	1059.0	1041.7	963.4	863.5	770.7	692.5	633.1	589.6	562.1	549.1	547.6
47.5°	1185.1	1174.9	1067.7	920.0	799.7	707.0	636.0	585.3	553.4	534.6	534.6
50°	1318.4	1293.7	1172.0	988.0	830.1	717.1	636.0	578.1	538.9	518.7	515.8
52.5°	1447.3	1422.7	1277.8	1056.1	863.5	727.3	633.1	567.9	525.9	504.2	501.3
55°	1557.4	1537.1	1380.7	1132.9	898.2	734.5	628.8	556.3	512.9	492.6	489.7
57.5°	1658.8	1638.5	1470.5	1198.1	931.5	738.9	618.6	541.8	496.9	476.6	475.2
60°	1732.7	1716.8	1547.3	1259.0	959.1	738.9	604.1	524.4	479.5	459.3	457.8
62.5°	1782.0	1766.0	1602.3	1299.5	976.5	728.7	582.4	501.3	457.8	439.0	434.6
65°	1800.8	1786.3	1626.9	1315.5	973.6	708.4	553.4	472.3	430.3	411.4	408.5
66°	1802.2	1786.3	1626.9	1312.6	966.3	696.8	540.4	459.3	418.7	399.9	397.0
67.5°	1790.7	1776.2	1616.8	1298.1	946.0	675.1	514.3	437.5	397.0	378.1	376.7
70°	1737.1	1725.5	1561.8	1243.0	898.2	627.3	470.8	395.5	356.4	343.4	339.0
72.5°	1621.2	1608.1	1451.6	1140.2	820.0	562.1	415.8	346.3	314.4	298.4	297.0
75°	1441.5	1435.7	1283.6	1004.0	707.0	483.9	352.0	292.6	266.6	255.0	255.0
77.5°	1206.8	1195.2	1066.3	830.1	580.9	391.2	282.5	237.6	217.3	207.2	208.6
80°	938.8	930.1	821.4	623.0	439.0	294.1	211.5	181.1	166.6	160.8	157.9
82.5°	643.2	620.1	547.6	412.9	285.4	198.5	146.3	126.0	118.8	117.3	115.9
85°	334.7	343.4	288.3	218.8	155.0	110.1	88.4	81.1	78.2	79.7	79.7
87.5°	110.1	113.0	86.9	66.6	50.7	39.1	33.3	31.9	27.5	30.4	31.9
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)