

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: P472238

Luminaire Tested: **CCW-VA-2-827-U-T2**

Issue Date: 01/27/2021

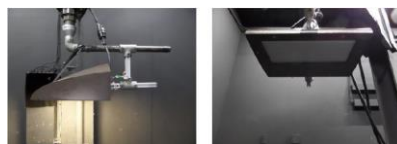
**Test Information**

Test Method: LM-79-08  
Report Number: P472238  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 01/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-VA-2-827-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: 3282.2 lumens  
Efficiency: N/A  
Efficacy: 81.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

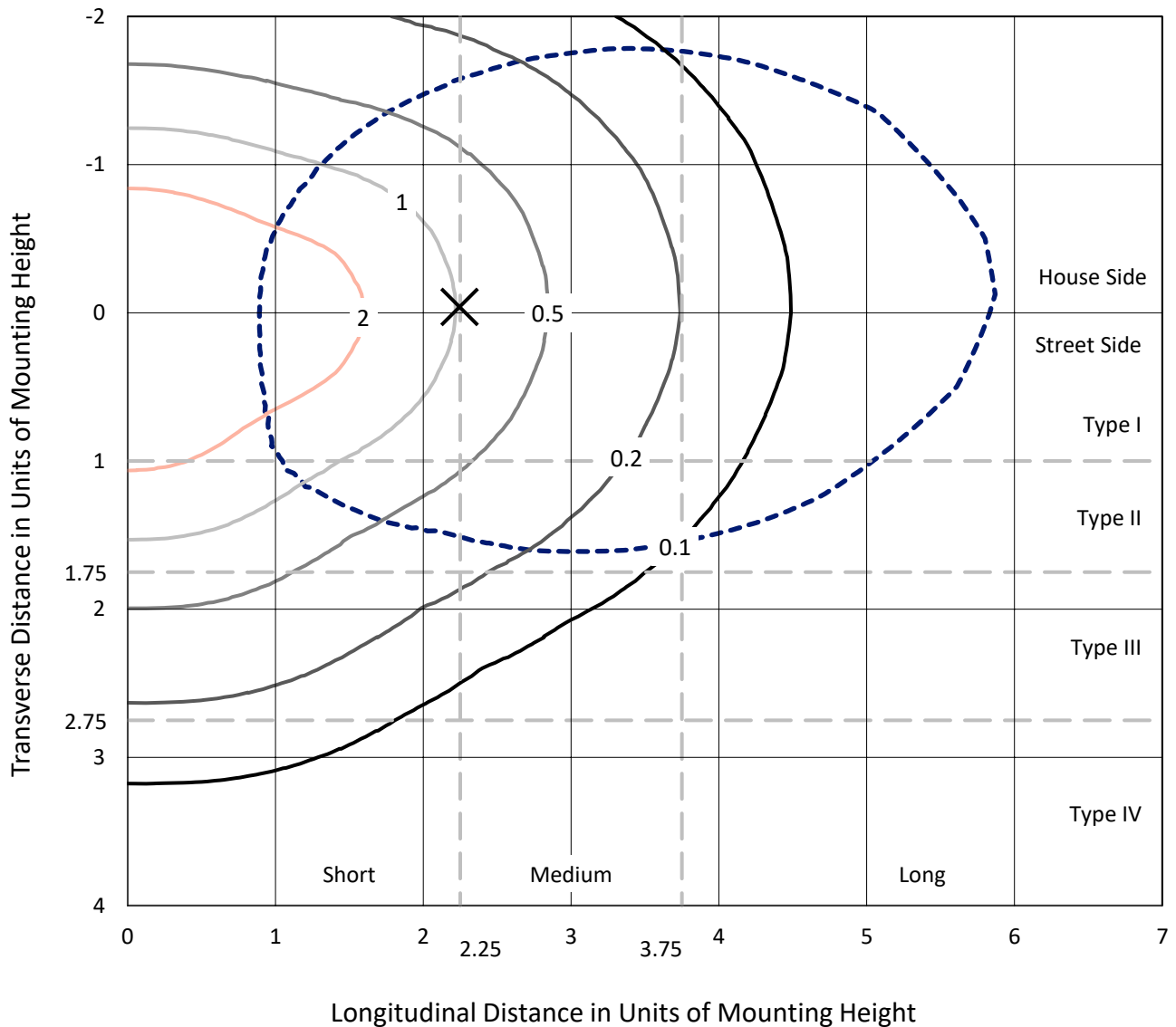
Input Watts (W): 40.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

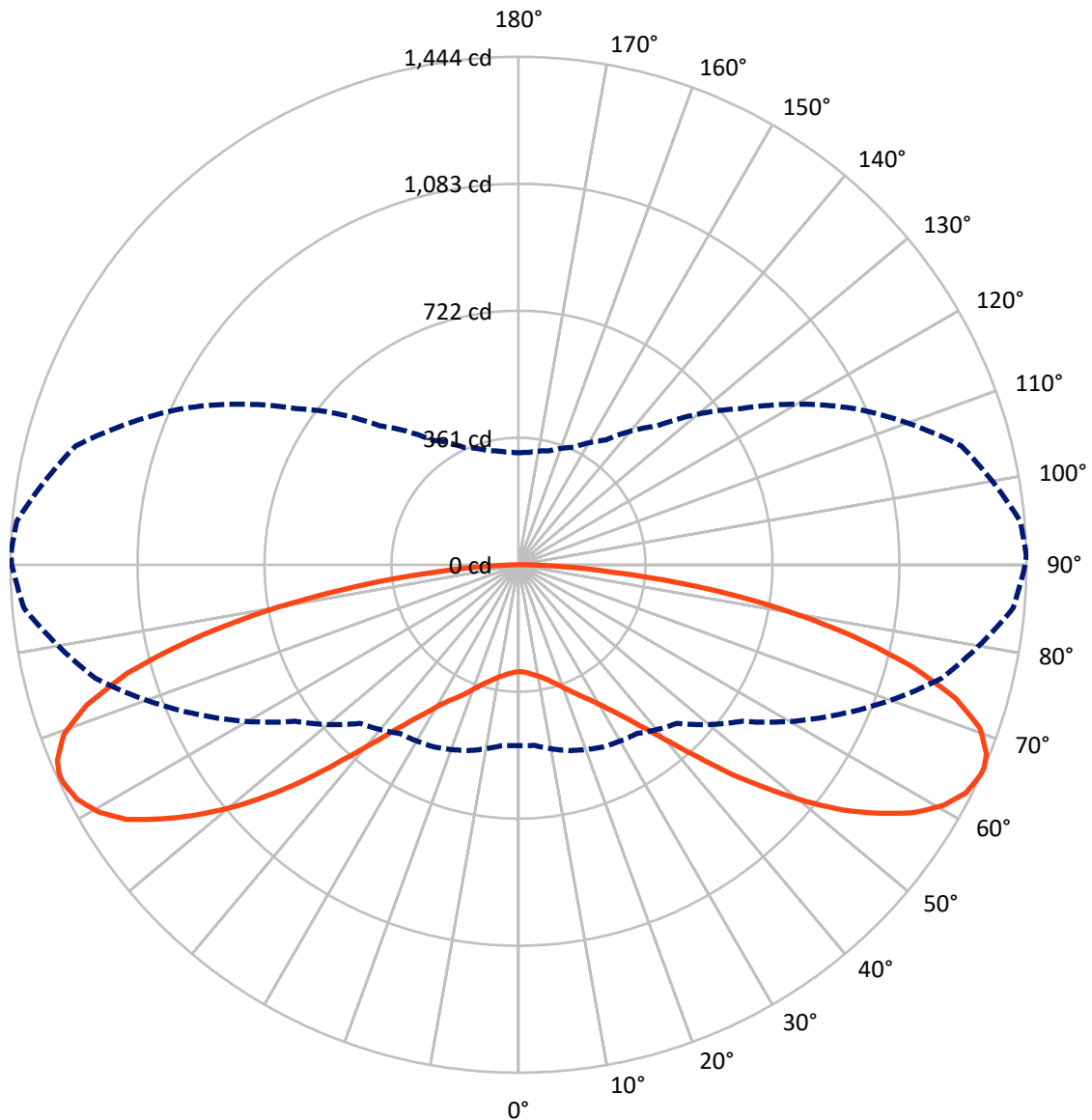
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.3 fc  
 Type II - Short - N/A

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CATALOG NUMBER: CCW-VA-2-827-U-T2

### Luminous Intensity Polar Plot



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

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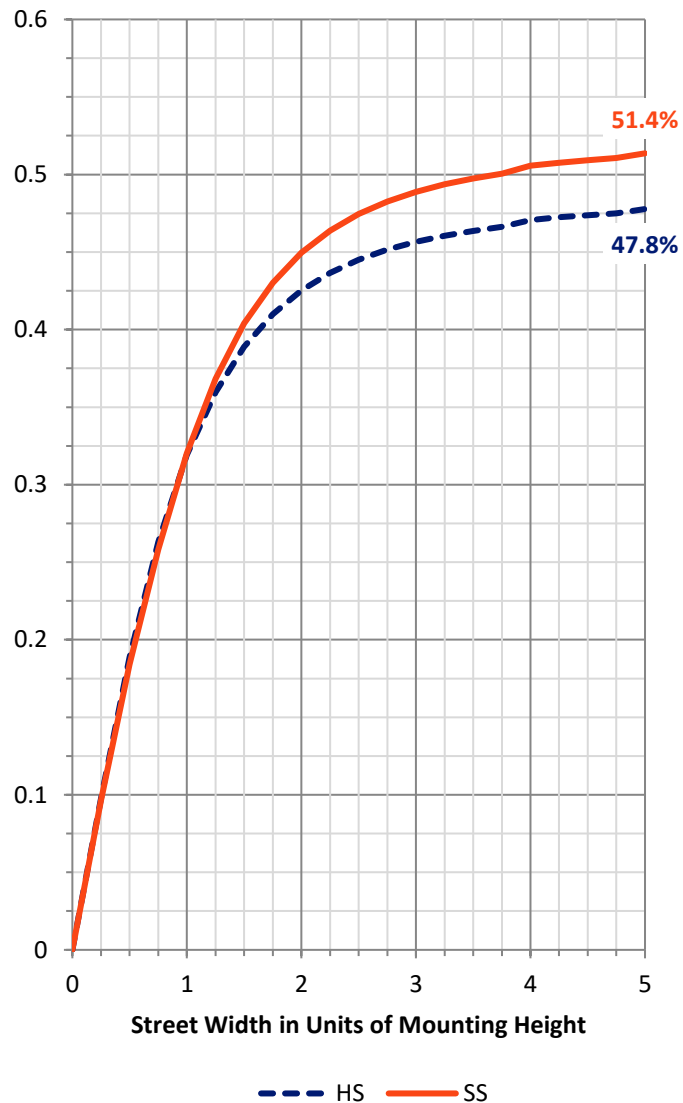
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1584.1	0.0	1584.1
	% Fixture	48.3	0.0	48.3
<b>Street Side</b>	Lumens	1698.0	0.0	1698.0
	% Fixture	51.7	0.0	51.7
<b>Total</b>	Lumens	3282.2	0.0	3282.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.9	0.9
10°-20°	98.0	3.0
20°-30°	189.5	5.8
30°-40°	310.9	9.5
40°-50°	492.5	15.0
50°-60°	679.1	20.7
60°-70°	762.6	23.2
70°-80°	569.9	17.4
80°-90°	149.7	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°	3282.2	100.0
0°-180°	3282.2	100.0

**Coefficient of Utilization**

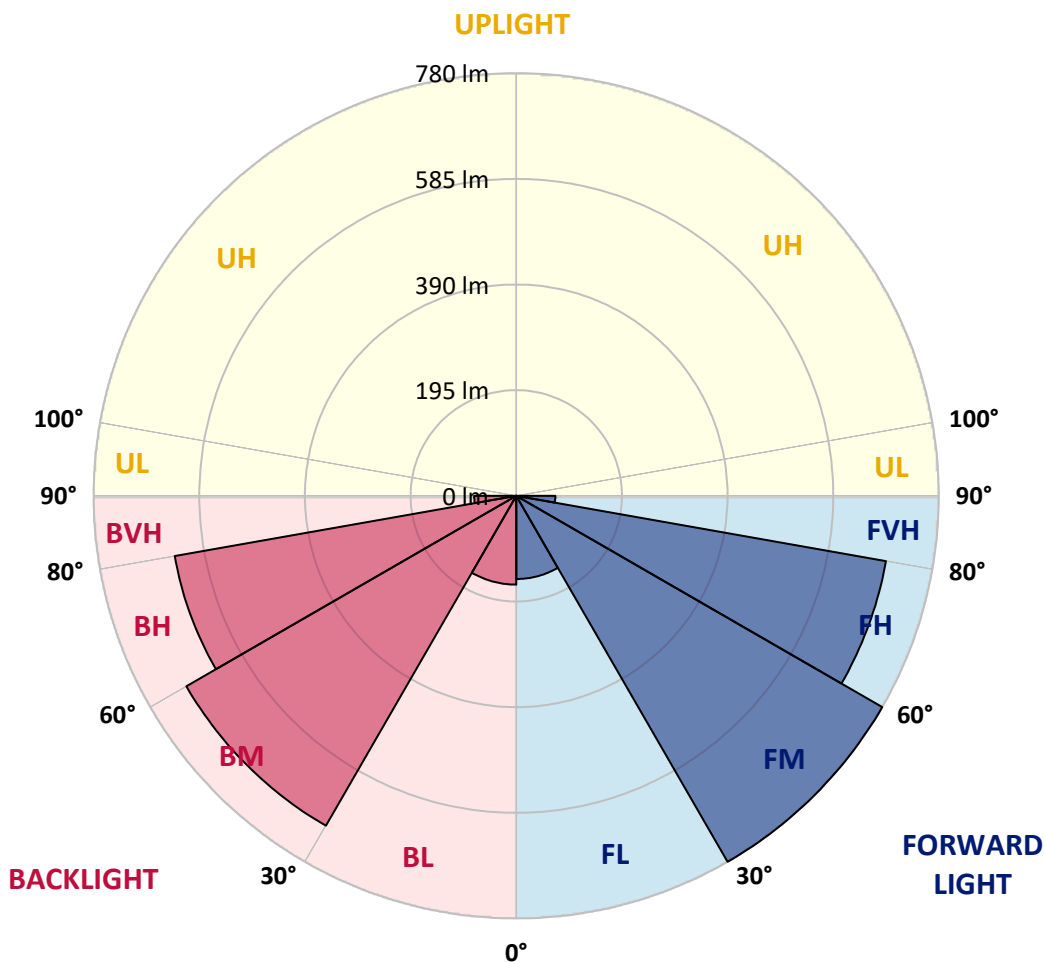


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	153.5	4.7			
FM (30°-60°)	779.7	23.8			
FH (60°-80°)	692.7	21.1			G1/1800
FVH (80°-90°)	72.1	2.2			G1/100
BL (0°-30°)	163.9	5.0	B1/500		
BM (30°-60°)	702.8	21.4	B1/1000		
BH (60°-80°)	639.8	19.5	B2/1000		G2/1000
BVH (80°-90°)	77.6	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°	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1
2.5°	305.3	305.3	305.3	305.3	306.4	306.4	306.4	306.4	306.4	305.3	305.3
5°	307.6	307.6	307.6	307.6	308.8	308.8	308.8	308.8	309.9	309.9	309.9
7.5°	309.9	309.9	311.1	311.1	312.3	312.3	313.4	313.4	314.6	315.7	315.7
10°	314.6	314.6	315.7	315.7	318.1	319.2	320.4	320.4	322.7	322.7	322.7
12.5°	320.4	321.5	322.7	323.9	326.2	327.3	328.5	329.7	330.8	332.0	332.0
15°	329.7	328.5	330.8	333.1	334.3	336.6	337.8	339.0	341.3	343.6	343.6
17.5°	336.6	337.8	339.0	341.3	343.6	347.1	349.4	351.7	354.0	356.4	356.4
20°	345.9	344.8	349.4	352.9	355.2	359.8	363.3	368.0	370.3	372.6	373.8
22.5°	354.0	355.2	357.5	362.2	366.8	373.8	380.7	384.2	387.7	390.0	393.5
25°	364.5	365.7	369.1	373.8	380.7	388.9	397.0	401.6	405.1	409.8	413.2
27.5°	374.9	374.9	380.7	387.7	395.8	406.3	415.6	420.2	426.0	431.8	434.1
30°	386.5	386.5	392.3	401.6	413.2	424.9	433.0	442.3	450.4	456.2	460.8
32.5°	404.0	404.0	410.9	420.2	433.0	446.9	458.5	467.8	478.2	488.7	498.0
35°	423.7	424.9	434.1	445.7	460.8	478.2	488.7	501.5	513.1	530.5	539.8
37.5°	455.0	456.2	466.6	481.7	496.8	515.4	532.8	547.9	565.3	585.0	592.0
40°	501.5	504.9	515.4	522.4	536.3	550.2	575.8	601.3	631.5	658.2	662.8
42.5°	585.0	581.6	574.6	572.3	575.8	590.8	618.7	658.2	711.6	745.2	745.2
45°	617.5	617.5	618.7	616.4	614.1	624.5	657.0	719.7	795.1	841.6	850.9
47.5°	623.3	624.5	635.0	644.2	646.6	658.2	697.6	780.1	881.0	949.5	955.3
50°	623.3	625.7	639.6	655.8	667.5	683.7	732.5	833.5	965.8	1044.7	1059.8
52.5°	621.0	623.3	638.4	658.2	676.7	700.0	762.6	889.2	1041.2	1148.0	1155.0
55°	615.2	617.5	636.1	657.0	677.9	709.2	787.0	936.8	1114.4	1233.9	1246.7
57.5°	608.3	611.7	631.5	653.5	673.3	711.6	803.3	973.9	1173.6	1310.5	1333.8
60°	594.3	600.1	622.2	644.2	662.8	703.4	811.4	1002.9	1217.7	1366.3	1389.5
62.5°	566.5	572.3	596.6	621.0	639.6	683.7	806.8	1016.9	1243.2	1401.1	1425.5
65°	531.6	534.0	560.7	586.2	604.8	651.2	787.0	1014.5	1249.0	1412.7	1440.5
66°	514.2	515.4	546.7	571.1	586.2	637.3	775.4	1006.4	1245.5	1411.5	1440.5
67.5°	482.9	488.7	515.4	540.9	558.3	605.9	747.6	987.8	1231.6	1399.9	1430.1
70°	428.3	433.0	455.0	480.6	499.1	544.4	687.2	933.3	1180.5	1352.3	1387.1
72.5°	369.1	372.6	395.8	414.4	426.0	474.8	614.1	843.9	1091.1	1262.9	1296.6
75°	306.4	308.8	329.7	342.4	352.9	395.8	516.6	729.0	950.7	1117.8	1162.0
77.5°	241.4	242.6	260.0	271.6	271.6	308.8	409.8	590.8	780.1	934.4	966.9
80°	177.6	176.4	186.9	192.7	196.2	220.6	294.8	434.1	594.3	715.0	746.4
82.5°	116.1	114.9	121.9	124.2	124.2	139.3	185.7	275.1	390.0	485.2	503.8
85°	61.5	63.8	62.7	62.7	62.7	68.5	92.9	143.9	207.8	260.0	272.8
87.5°	10.4	10.4	10.4	11.6	13.9	18.6	24.4	40.6	59.2	80.1	90.5
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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 CATALOG NUMBER: CCW-VA-2-827-U-T2

**CANDELA DISTRIBUTION (continued):**

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1	304.1
2.5°	305.3	306.4	306.4	306.4	306.4	306.4	306.4	306.4	306.4	306.4	306.4
5°	309.9	309.9	309.9	311.1	311.1	311.1	311.1	311.1	311.1	311.1	311.1
7.5°	315.7	315.7	316.9	316.9	316.9	318.1	318.1	316.9	316.9	316.9	316.9
10°	322.7	322.7	323.9	325.0	325.0	326.2	326.2	325.0	325.0	323.9	323.9
12.5°	332.0	333.1	334.3	335.5	336.6	336.6	335.5	334.3	333.1	332.0	332.0
15°	343.6	344.8	345.9	348.2	348.2	348.2	347.1	345.9	343.6	342.4	343.6
17.5°	357.5	358.7	361.0	362.2	363.3	362.2	362.2	361.0	361.0	359.8	359.8
20°	374.9	376.1	379.6	380.7	380.7	381.9	385.4	387.7	391.2	392.3	392.3
22.5°	392.3	394.7	398.2	402.8	405.1	409.8	410.9	413.2	412.1	408.6	408.6
25°	413.2	415.6	422.5	428.3	433.0	435.3	433.0	429.5	423.7	419.0	417.9
27.5°	435.3	438.8	449.2	457.4	459.7	457.4	448.1	439.9	433.0	427.2	424.9
30°	463.2	469.0	480.6	485.2	484.1	474.8	460.8	450.4	439.9	433.0	431.8
32.5°	498.0	503.8	514.2	515.4	508.4	491.0	472.4	458.5	445.7	437.6	436.5
35°	539.8	545.6	551.4	547.9	528.2	506.1	482.9	463.2	450.4	441.1	441.1
37.5°	593.2	596.6	596.6	579.2	549.1	520.0	491.0	467.8	453.9	444.6	443.4
40°	662.8	661.7	645.4	611.7	572.3	532.8	496.8	472.4	455.0	445.7	444.6
42.5°	746.4	738.3	703.4	648.9	594.3	544.4	503.8	473.6	453.9	444.6	443.4
45°	848.5	834.6	771.9	691.8	617.5	554.9	507.3	472.4	450.4	439.9	438.8
47.5°	949.5	941.4	855.5	737.1	640.8	566.5	509.6	469.0	443.4	428.3	428.3
50°	1056.3	1036.6	939.1	791.7	665.1	574.6	509.6	463.2	431.8	415.6	413.2
52.5°	1159.6	1139.9	1023.8	846.2	691.8	582.7	507.3	455.0	421.4	404.0	401.6
55°	1247.9	1231.6	1106.2	907.7	719.7	588.5	503.8	445.7	410.9	394.7	392.3
57.5°	1329.1	1312.9	1178.2	960.0	746.4	592.0	495.7	434.1	398.2	381.9	380.7
60°	1388.3	1375.5	1239.7	1008.7	768.4	592.0	484.1	420.2	384.2	368.0	366.8
62.5°	1427.8	1415.0	1283.8	1041.2	782.4	583.9	466.6	401.6	366.8	351.7	348.2
65°	1442.9	1431.3	1303.6	1054.0	780.1	567.6	443.4	378.4	344.8	329.7	327.3
66°	1444.0	1431.3	1303.6	1051.7	774.3	558.3	433.0	368.0	335.5	320.4	318.1
67.5°	1434.7	1423.1	1295.4	1040.1	758.0	540.9	412.1	350.6	318.1	303.0	301.8
70°	1391.8	1382.5	1251.3	996.0	719.7	502.6	377.3	316.9	285.6	275.1	271.6
72.5°	1298.9	1288.5	1163.1	913.5	657.0	450.4	333.1	277.4	251.9	239.1	238.0
75°	1155.0	1150.3	1028.5	804.4	566.5	387.7	282.1	234.5	213.6	204.3	204.3
77.5°	966.9	957.7	854.3	665.1	465.5	313.4	226.4	190.4	174.1	166.0	167.2
80°	752.2	745.2	658.2	499.1	351.7	235.6	169.5	145.1	133.5	128.8	126.5
82.5°	515.4	496.8	438.8	330.8	228.7	159.0	117.2	101.0	95.2	94.0	92.9
85°	268.1	275.1	231.0	175.3	124.2	88.2	70.8	65.0	62.7	63.8	63.8
87.5°	88.2	90.5	69.6	53.4	40.6	31.3	26.7	25.5	22.1	24.4	25.5
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)