

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: P472241

Luminaire Tested: **CCW-VA-1-830-U-T2**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472241
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-830-U-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2541.8 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

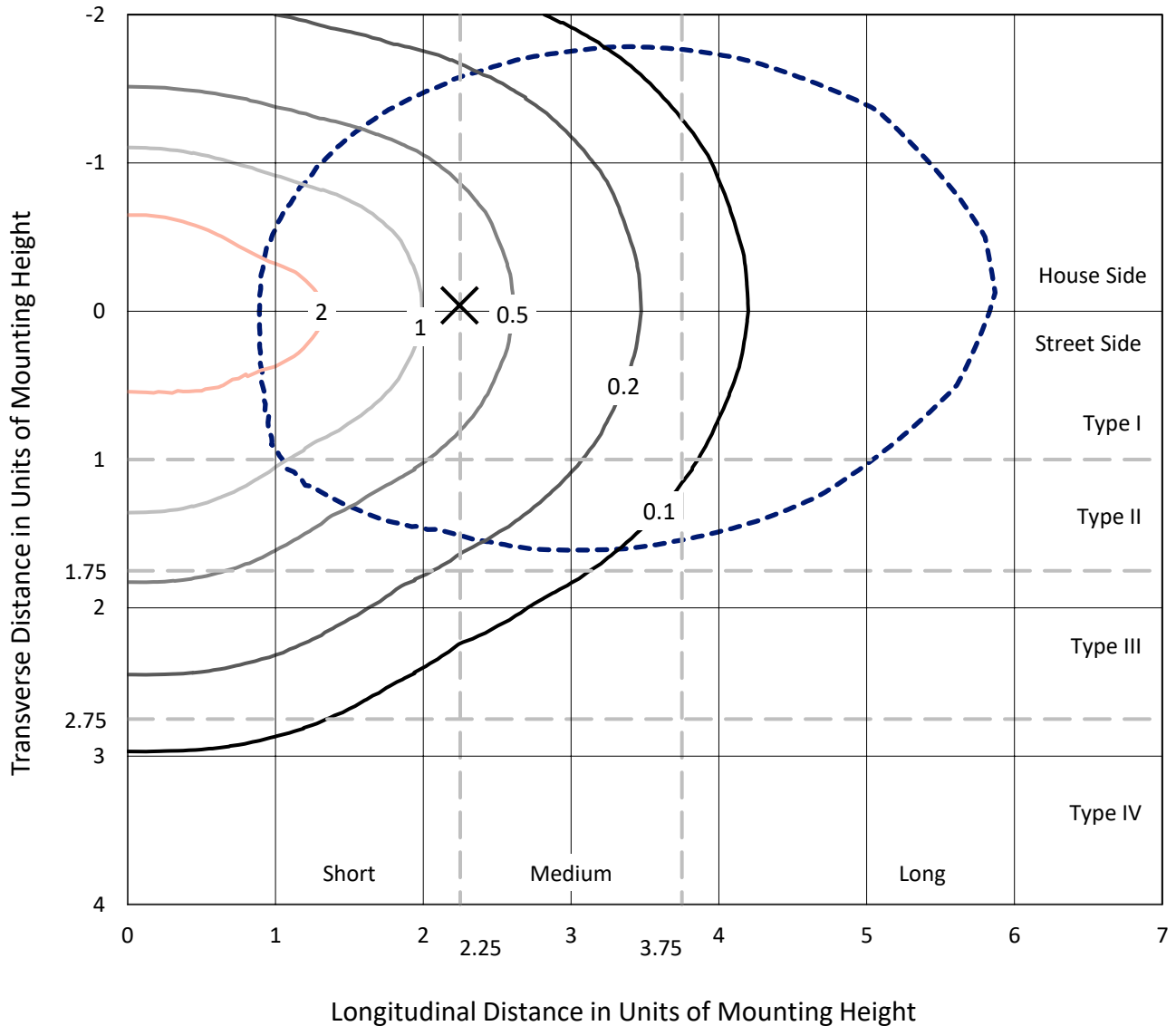
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

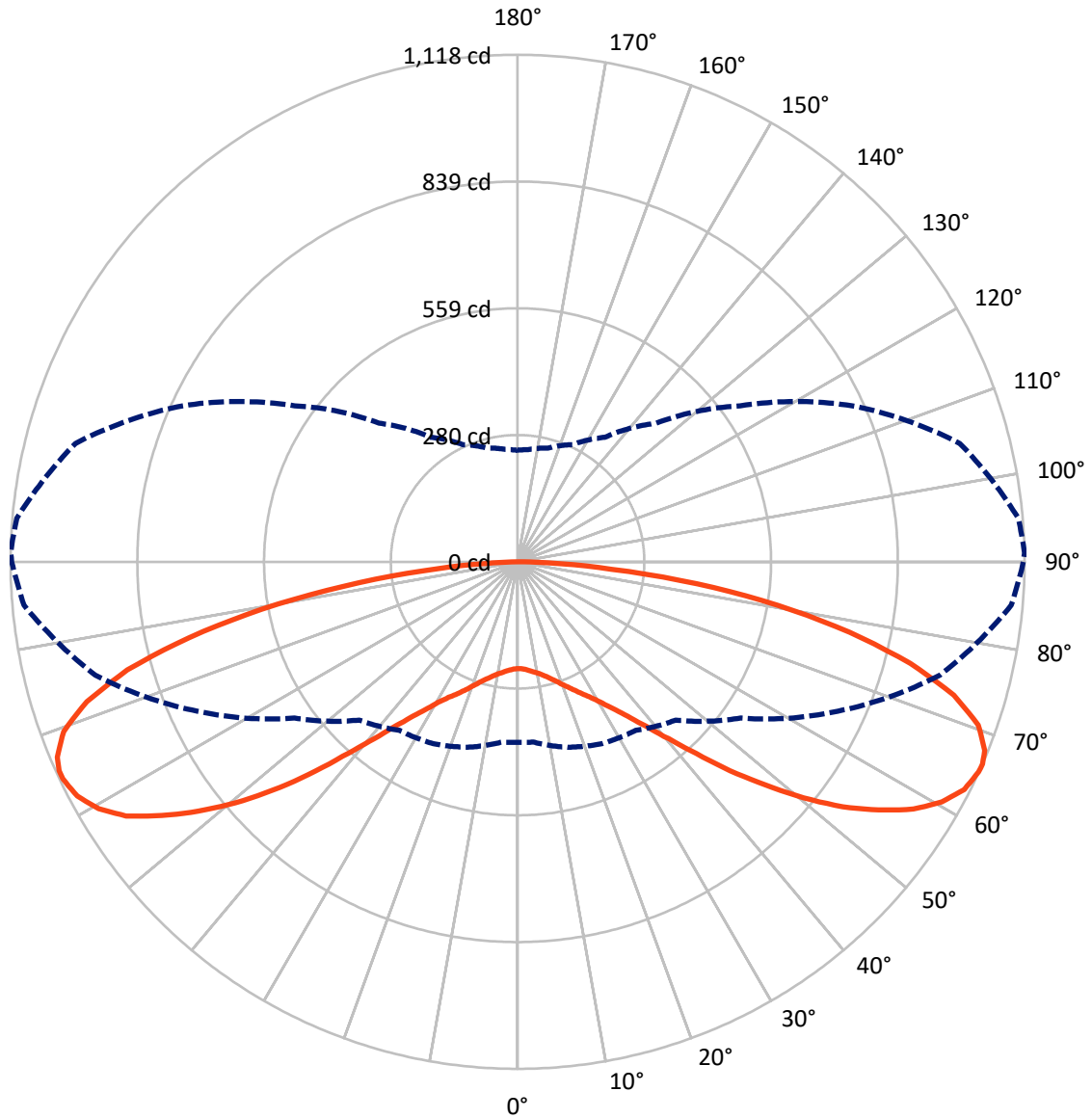
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 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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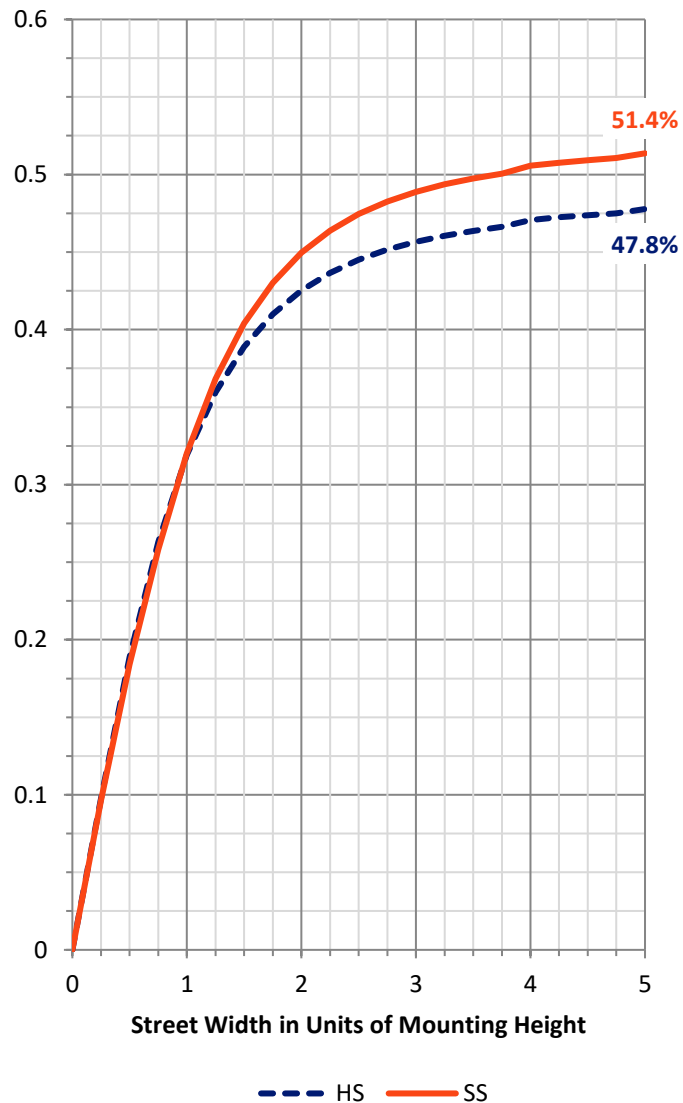
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1226.8	0.0	1226.8
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	1315.0	0.0	1315.0
	% Fixture	51.7	0.0	51.7
Total	Lumens	2541.8	0.0	2541.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	0.9
10°-20°	75.9	3.0
20°-30°	146.8	5.8
30°-40°	240.8	9.5
40°-50°	381.4	15.0
50°-60°	525.9	20.7
60°-70°	590.6	23.2
70°-80°	441.4	17.4
80°-90°	116.0	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°	2541.8	100.0
0°-180°	2541.8	100.0

Coefficient of Utilization

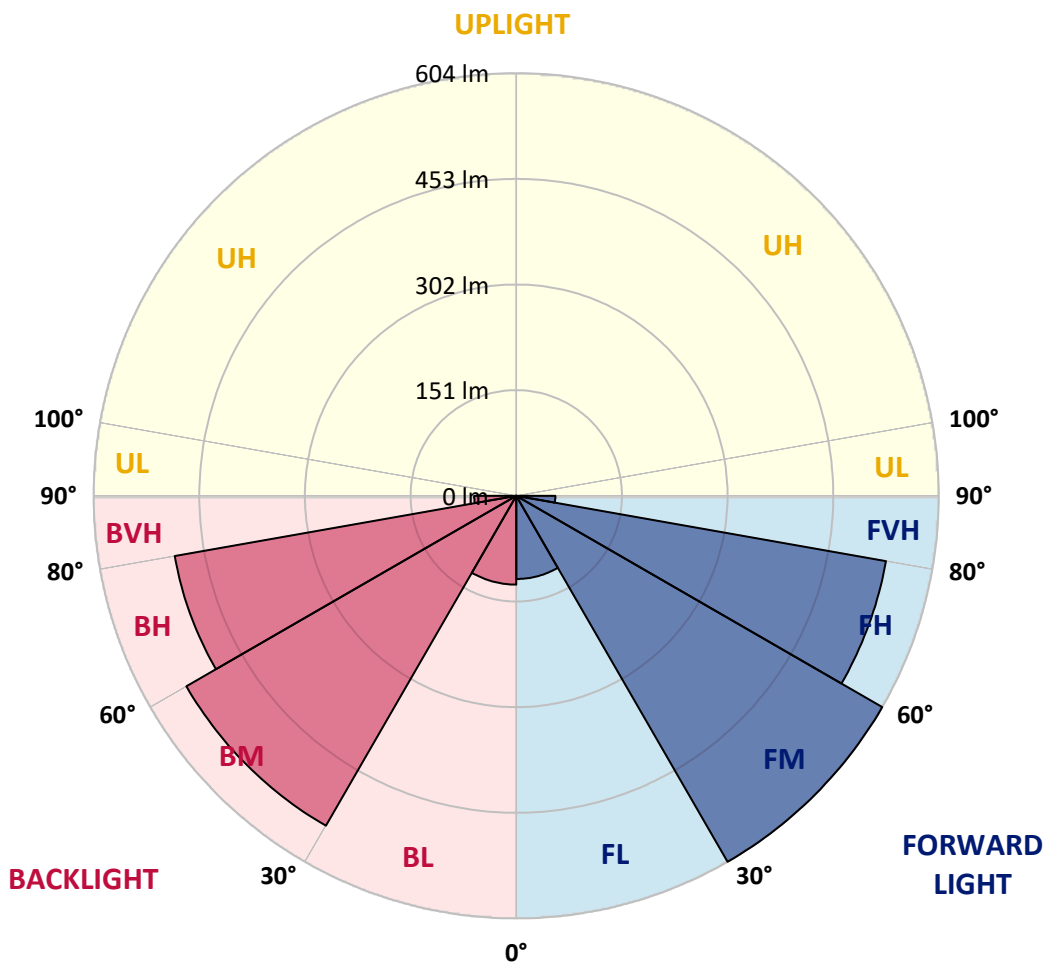


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.8	4.7			
FM (30°-60°)	603.9	23.8			
FH (60°-80°)	536.4	21.1			G0/660
FVH (80°-90°)	55.8	2.2			G1/100
BL (0°-30°)	127.0	5.0	B1/500		
BM (30°-60°)	544.2	21.4	B1/1000		
BH (60°-80°)	495.5	19.5	B1/500		G1/500
BVH (80°-90°)	60.1	2.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5
2.5°	236.4	236.4	236.4	236.4	237.3	237.3	237.3	237.3	237.3	236.4	236.4
5°	238.2	238.2	238.2	238.2	239.1	239.1	239.1	239.1	240.0	240.0	240.0
7.5°	240.0	240.0	240.9	240.9	241.8	241.8	242.7	242.7	243.6	244.5	244.5
10°	243.6	243.6	244.5	244.5	246.3	247.2	248.1	248.1	249.9	249.9	249.9
12.5°	248.1	249.0	249.9	250.8	252.6	253.5	254.4	255.3	256.2	257.1	257.1
15°	255.3	254.4	256.2	258.0	258.9	260.7	261.6	262.5	264.3	266.1	266.1
17.5°	260.7	261.6	262.5	264.3	266.1	268.8	270.6	272.4	274.2	276.0	276.0
20°	267.9	267.0	270.6	273.3	275.1	278.7	281.4	285.0	286.8	288.6	289.5
22.5°	274.2	275.1	276.9	280.5	284.1	289.5	294.9	297.6	300.3	302.1	304.7
25°	282.3	283.2	285.9	289.5	294.9	301.2	307.4	311.0	313.7	317.3	320.0
27.5°	290.4	290.4	294.9	300.3	306.5	314.6	321.8	325.4	329.9	334.4	336.2
30°	299.4	299.4	303.8	311.0	320.0	329.0	335.3	342.5	348.8	353.3	356.9
32.5°	312.8	312.8	318.2	325.4	335.3	346.1	355.1	362.3	370.4	378.5	385.7
35°	328.1	329.0	336.2	345.2	356.9	370.4	378.5	388.4	397.3	410.8	418.0
37.5°	352.4	353.3	361.4	373.1	384.8	399.1	412.6	424.3	437.8	453.1	458.5
40°	388.4	391.0	399.1	404.5	415.3	426.1	445.9	465.7	489.0	509.7	513.3
42.5°	453.1	450.4	445.0	443.2	445.9	457.6	479.1	509.7	551.1	577.1	577.1
45°	478.2	478.2	479.1	477.3	475.6	483.6	508.8	557.4	615.8	651.7	658.9
47.5°	482.7	483.6	491.7	498.9	500.7	509.7	540.3	604.1	682.3	735.3	739.8
50°	482.7	484.5	495.3	507.9	516.9	529.5	567.2	645.5	747.9	809.1	820.8
52.5°	480.9	482.7	494.4	509.7	524.1	542.1	590.6	688.6	806.4	889.1	894.5
55°	476.4	478.2	492.6	508.8	525.0	549.3	609.5	725.5	863.0	955.6	965.5
57.5°	471.1	473.8	489.0	506.1	521.4	551.1	622.1	754.2	908.8	1014.9	1032.9
60°	460.3	464.8	481.8	498.9	513.3	544.8	628.4	776.7	943.0	1058.1	1076.1
62.5°	438.7	443.2	462.1	480.9	495.3	529.5	624.8	787.5	962.8	1085.0	1103.9
65°	411.7	413.5	434.2	454.0	468.4	504.3	609.5	785.7	967.3	1094.0	1115.6
66°	398.2	399.1	423.4	442.3	454.0	493.5	600.5	779.4	964.6	1093.1	1115.6
67.5°	374.0	378.5	399.1	418.9	432.4	469.3	578.9	765.0	953.8	1084.1	1107.5
70°	331.7	335.3	352.4	372.2	386.6	421.6	532.2	722.8	914.2	1047.3	1074.3
72.5°	285.9	288.6	306.5	320.9	329.9	367.7	475.6	653.5	845.0	978.1	1004.1
75°	237.3	239.1	255.3	265.2	273.3	306.5	400.0	564.5	736.2	865.7	899.9
77.5°	187.0	187.9	201.4	210.4	210.4	239.1	317.3	457.6	604.1	723.7	748.8
80°	137.5	136.6	144.7	149.2	151.9	170.8	228.3	336.2	460.3	553.8	578.0
82.5°	89.9	89.0	94.4	96.2	96.2	107.9	143.8	213.1	302.1	375.8	390.1
85°	47.6	49.4	48.5	48.5	48.5	53.0	71.9	111.5	160.9	201.4	211.3
87.5°	8.1	8.1	8.1	9.0	10.8	14.4	18.9	31.5	45.8	62.0	70.1
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°	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5	235.5
2.5°	236.4	237.3	237.3	237.3	237.3	237.3	237.3	237.3	237.3	237.3	237.3
5°	240.0	240.0	240.0	240.9	240.9	240.9	240.9	240.9	240.9	240.9	240.9
7.5°	244.5	244.5	245.4	245.4	245.4	246.3	246.3	245.4	245.4	245.4	245.4
10°	249.9	249.9	250.8	251.7	251.7	252.6	252.6	251.7	251.7	250.8	250.8
12.5°	257.1	258.0	258.9	259.8	260.7	260.7	259.8	258.9	258.0	257.1	257.1
15°	266.1	267.0	267.9	269.7	269.7	269.7	268.8	267.9	266.1	265.2	266.1
17.5°	276.9	277.8	279.6	280.5	281.4	280.5	280.5	279.6	279.6	278.7	278.7
20°	290.4	291.3	294.0	294.9	294.9	295.8	298.5	300.3	302.9	303.8	303.8
22.5°	303.8	305.6	308.3	311.9	313.7	317.3	318.2	320.0	319.1	316.4	316.4
25°	320.0	321.8	327.2	331.7	335.3	337.1	335.3	332.6	328.1	324.5	323.6
27.5°	337.1	339.8	347.9	354.2	356.0	354.2	347.0	340.7	335.3	330.8	329.0
30°	358.7	363.2	372.2	375.8	374.9	367.7	356.9	348.8	340.7	335.3	334.4
32.5°	385.7	390.1	398.2	399.1	393.7	380.3	365.9	355.1	345.2	338.9	338.0
35°	418.0	422.5	427.0	424.3	409.0	391.9	374.0	358.7	348.8	341.6	341.6
37.5°	459.4	462.1	462.1	448.6	425.2	402.7	380.3	362.3	351.5	344.3	343.4
40°	513.3	512.4	499.8	473.8	443.2	412.6	384.8	365.9	352.4	345.2	344.3
42.5°	578.0	571.7	544.8	502.5	460.3	421.6	390.1	366.8	351.5	344.3	343.4
45°	657.1	646.4	597.8	535.8	478.2	429.7	392.8	365.9	348.8	340.7	339.8
47.5°	735.3	729.1	662.5	570.8	496.2	438.7	394.6	363.2	343.4	331.7	331.7
50°	818.1	802.8	727.3	613.1	515.1	445.0	394.6	358.7	334.4	321.8	320.0
52.5°	898.1	882.8	792.9	655.3	535.8	451.3	392.8	352.4	326.3	312.8	311.0
55°	966.4	953.8	856.7	703.0	557.4	455.8	390.1	345.2	318.2	305.6	303.8
57.5°	1029.3	1016.7	912.4	743.4	578.0	458.5	383.9	336.2	308.3	295.8	294.9
60°	1075.2	1065.3	960.1	781.2	595.1	458.5	374.9	325.4	297.6	285.0	284.1
62.5°	1105.7	1095.8	994.3	806.4	605.9	452.2	361.4	311.0	284.1	272.4	269.7
65°	1117.4	1108.4	1009.5	816.3	604.1	439.6	343.4	293.1	267.0	255.3	253.5
66°	1118.3	1108.4	1009.5	814.5	599.6	432.4	335.3	285.0	259.8	248.1	246.3
67.5°	1111.1	1102.1	1003.2	805.5	587.0	418.9	319.1	271.5	246.3	234.6	233.7
70°	1077.9	1070.7	969.1	771.3	557.4	389.2	292.2	245.4	221.1	213.1	210.4
72.5°	1005.9	997.8	900.8	707.5	508.8	348.8	258.0	214.9	195.1	185.2	184.3
75°	894.5	890.9	796.5	623.0	438.7	300.3	218.4	181.6	165.4	158.2	158.2
77.5°	748.8	741.6	661.6	515.1	360.5	242.7	175.3	147.4	134.8	128.6	129.5
80°	582.5	577.1	509.7	386.6	272.4	182.5	131.2	112.4	103.4	99.8	98.0
82.5°	399.1	384.8	339.8	256.2	177.1	123.2	90.8	78.2	73.7	72.8	71.9
85°	207.7	213.1	178.9	135.7	96.2	68.3	54.8	50.3	48.5	49.4	49.4
87.5°	68.3	70.1	53.9	41.4	31.5	24.3	20.7	19.8	17.1	18.9	19.8
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)