

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: P472245

Luminaire Tested: **CCW-VA-1-835-U-T2**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472245
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-835-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: 2587.1 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

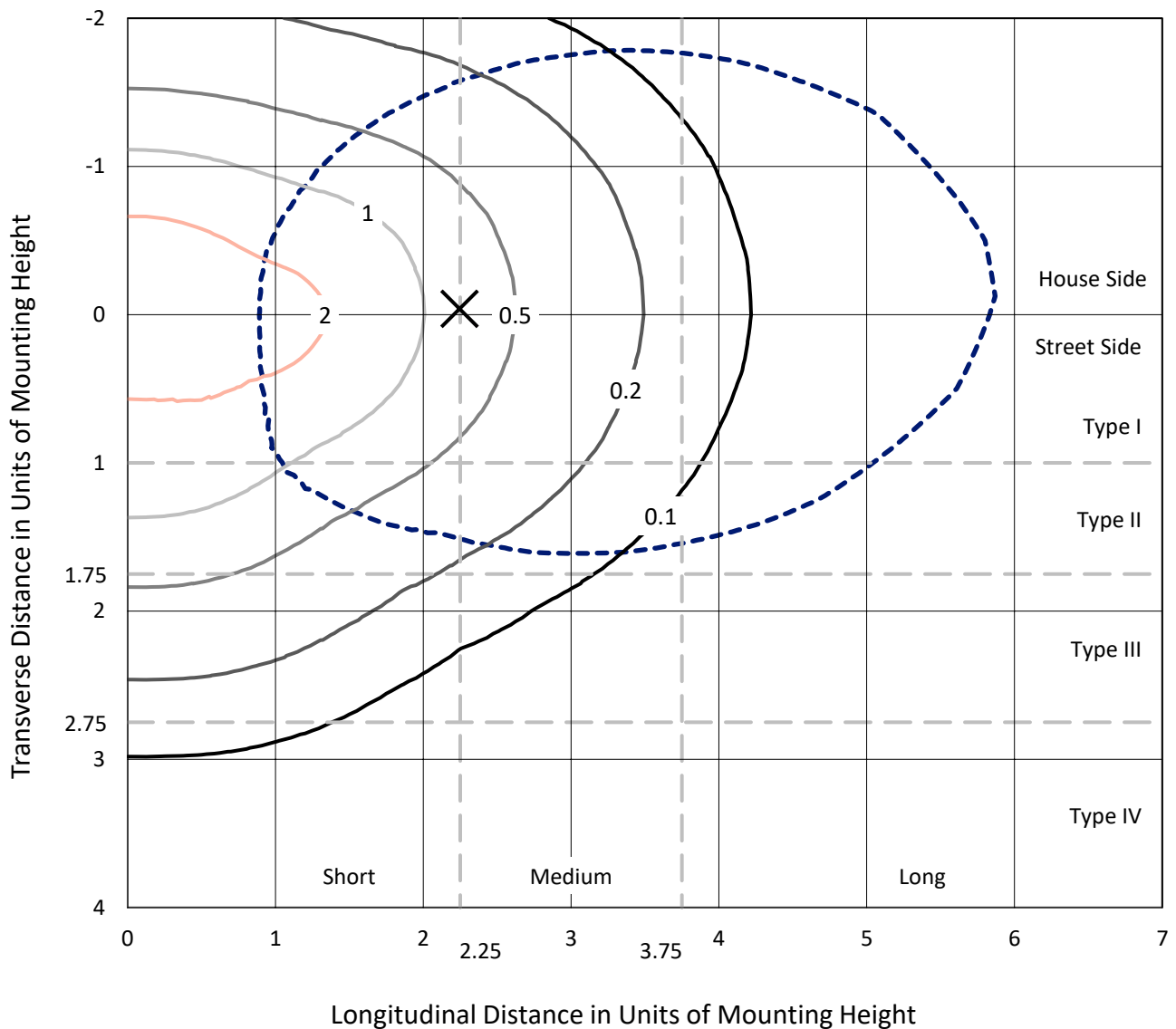
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

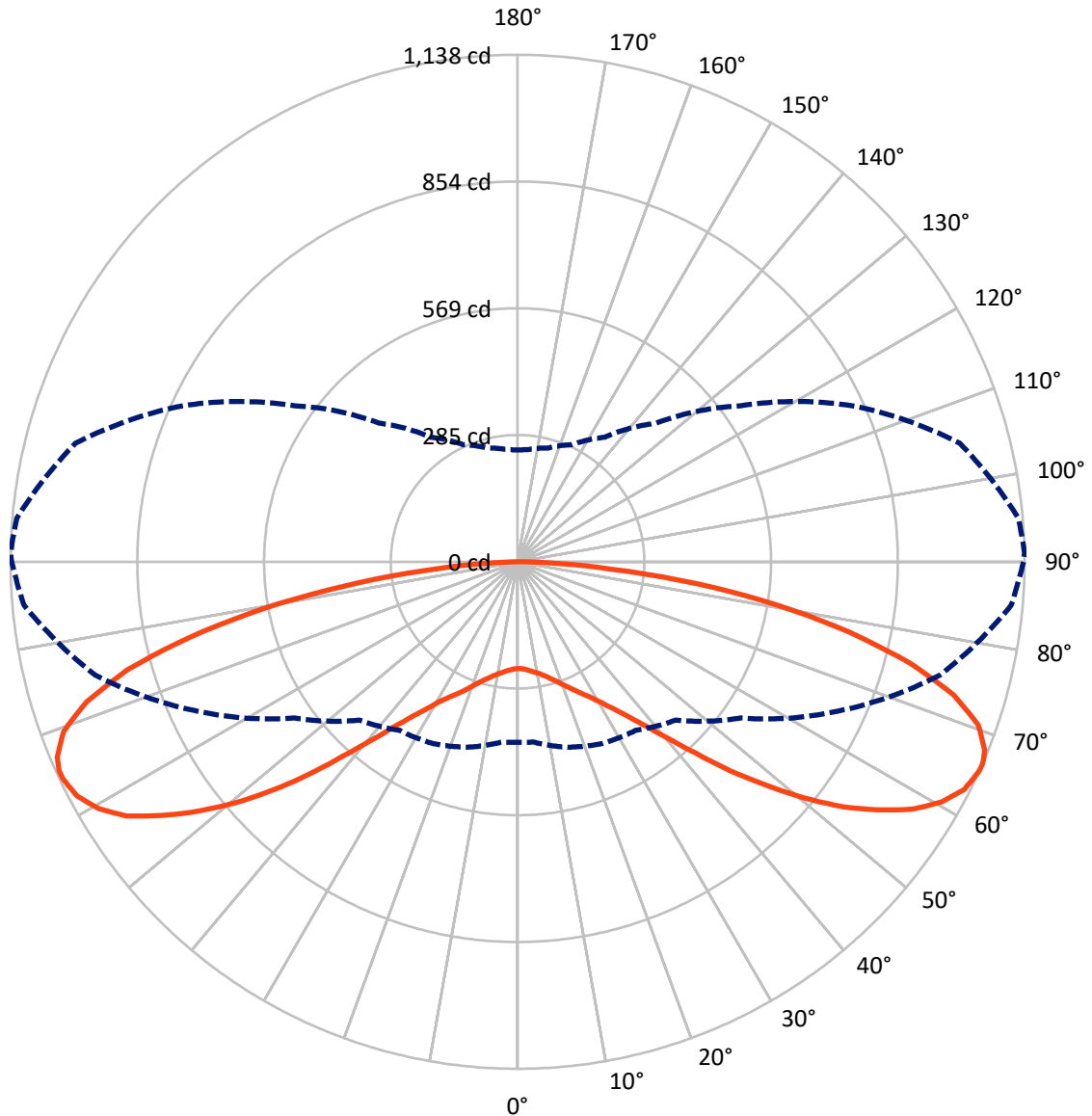
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 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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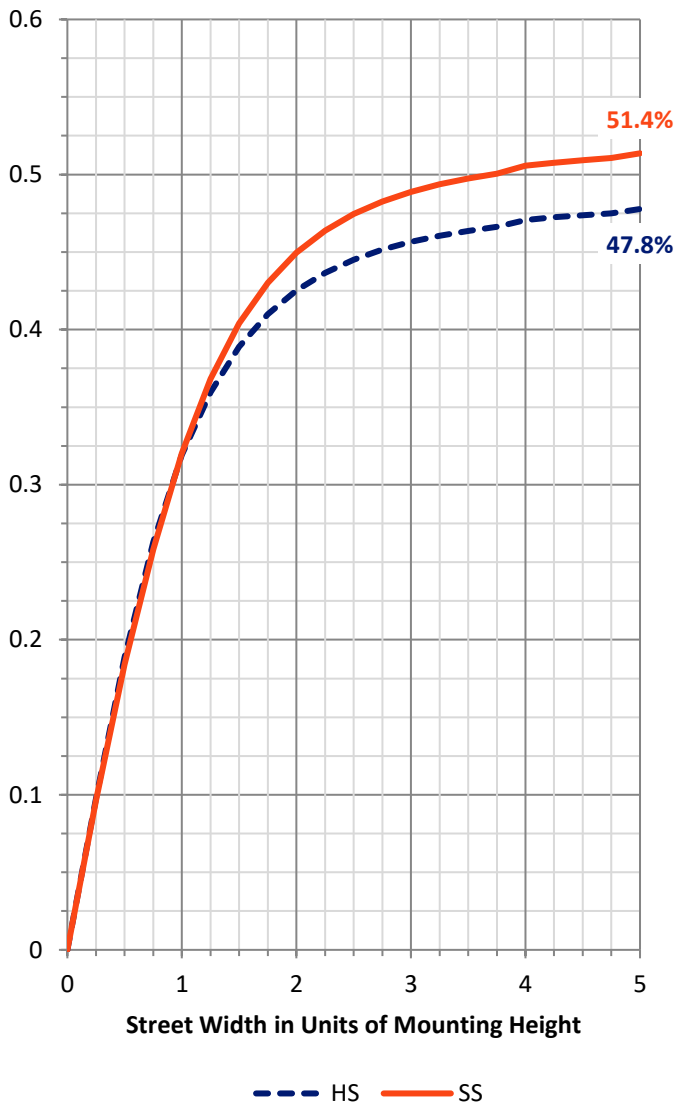
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1248.7	0.0	1248.7
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	1338.4	0.0	1338.4
	% Fixture	51.7	0.0	51.7
Total	Lumens	2587.1	0.0	2587.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.6	0.9
10°-20°	77.2	3.0
20°-30°	149.4	5.8
30°-40°	245.1	9.5
40°-50°	388.2	15.0
50°-60°	535.3	20.7
60°-70°	601.1	23.2
70°-80°	449.2	17.4
80°-90°	118.0	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°	2587.1	100.0
0°-180°	2587.1	100.0

Coefficient of Utilization



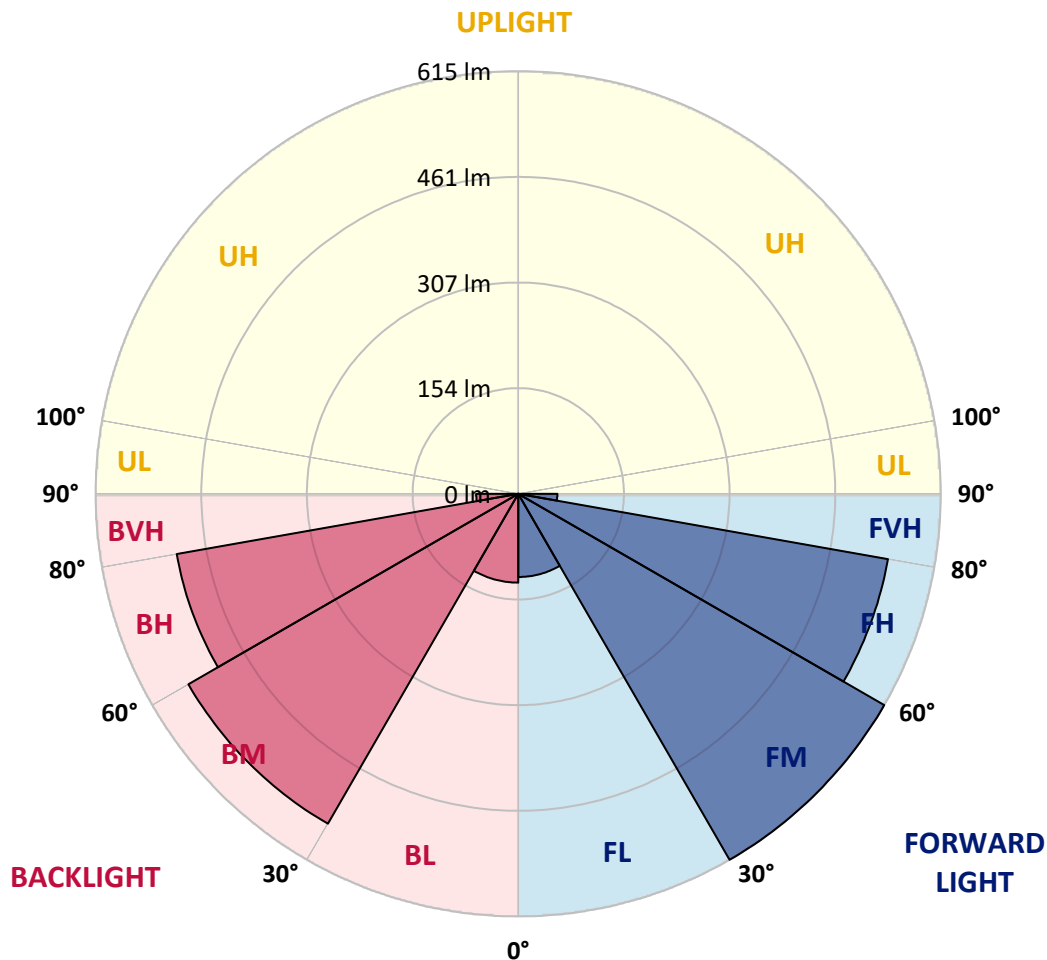
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	121.0	4.7			
FM (30°-60°)	614.6	23.8			
FH (60°-80°)	546.0	21.1			G0/660
FVH (80°-90°)	56.8	2.2			G1/100
BL (0°-30°)	129.2	5.0	B1/500		
BM (30°-60°)	553.9	21.4	B1/1000		
BH (60°-80°)	504.3	19.5	B2/1000		G2/1000
BVH (80°-90°)	61.2	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°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7
2.5°	240.6	240.6	240.6	240.6	241.6	241.6	241.6	241.6	241.6	240.6	240.6
5°	242.5	242.5	242.5	242.5	243.4	243.4	243.4	243.4	244.3	244.3	244.3
7.5°	244.3	244.3	245.2	245.2	246.1	246.1	247.0	247.0	248.0	248.9	248.9
10°	248.0	248.0	248.9	248.9	250.7	251.6	252.5	252.5	254.4	254.4	254.4
12.5°	252.5	253.4	254.4	255.3	257.1	258.0	258.9	259.9	260.8	261.7	261.7
15°	259.9	258.9	260.8	262.6	263.5	265.3	266.3	267.2	269.0	270.8	270.8
17.5°	265.3	266.3	267.2	269.0	270.8	273.6	275.4	277.2	279.1	280.9	280.9
20°	272.7	271.7	275.4	278.1	280.0	283.6	286.4	290.0	291.9	293.7	294.6
22.5°	279.1	280.0	281.8	285.5	289.1	294.6	300.1	302.9	305.6	307.4	310.2
25°	287.3	288.2	291.0	294.6	300.1	306.5	312.9	316.6	319.3	323.0	325.7
27.5°	295.5	295.5	300.1	305.6	312.0	320.2	327.6	331.2	335.8	340.4	342.2
30°	304.7	304.7	309.3	316.6	325.7	334.9	341.3	348.6	355.0	359.6	363.2
32.5°	318.4	318.4	323.9	331.2	341.3	352.3	361.4	368.7	377.0	385.2	392.5
35°	334.0	334.9	342.2	351.3	363.2	377.0	385.2	395.3	404.4	418.1	425.5
37.5°	358.7	359.6	367.8	379.7	391.6	406.2	420.0	431.9	445.6	461.1	466.6
40°	395.3	398.0	406.2	411.7	422.7	433.7	453.8	474.0	497.7	518.8	522.4
42.5°	461.1	458.4	452.9	451.1	453.8	465.7	487.7	518.8	560.9	587.4	587.4
45°	486.8	486.8	487.7	485.8	484.0	492.3	517.9	567.3	626.8	663.4	670.7
47.5°	491.3	492.3	500.5	507.8	509.6	518.8	549.9	614.9	694.5	748.4	753.0
50°	491.3	493.2	504.1	517.0	526.1	538.9	577.3	656.9	761.3	823.5	835.4
52.5°	489.5	491.3	503.2	518.8	533.4	551.7	601.1	700.9	820.7	904.9	910.4
55°	484.9	486.8	501.4	517.9	534.3	559.0	620.3	738.4	878.4	972.6	982.7
57.5°	479.4	482.2	497.7	515.1	530.7	560.9	633.2	767.7	925.0	1033.0	1051.3
60°	468.5	473.0	490.4	507.8	522.4	554.5	639.6	790.5	959.8	1076.9	1095.2
62.5°	446.5	451.1	470.3	489.5	504.1	538.9	635.9	801.5	979.9	1104.4	1123.6
65°	419.1	420.9	441.9	462.1	476.7	513.3	620.3	799.7	984.5	1113.5	1135.5
66°	405.3	406.2	430.9	450.2	462.1	502.3	611.2	793.3	981.8	1112.6	1135.5
67.5°	380.6	385.2	406.2	426.4	440.1	477.6	589.2	778.6	970.8	1103.4	1127.2
70°	337.6	341.3	358.7	378.8	393.4	429.1	541.7	735.6	930.5	1065.9	1093.4
72.5°	291.0	293.7	312.0	326.6	335.8	374.2	484.0	665.2	860.1	995.5	1022.0
75°	241.6	243.4	259.9	269.9	278.1	312.0	407.2	574.6	749.4	881.1	915.9
77.5°	190.3	191.2	205.0	214.1	214.1	243.4	323.0	465.7	614.9	736.5	762.2
80°	140.0	139.1	147.3	151.9	154.6	173.8	232.4	342.2	468.5	563.6	588.3
82.5°	91.5	90.6	96.1	97.9	97.9	109.8	146.4	216.8	307.4	382.5	397.1
85°	48.5	50.3	49.4	49.4	49.4	54.0	73.2	113.5	163.8	205.0	215.0
87.5°	8.2	8.2	8.2	9.1	11.0	14.6	19.2	32.0	46.7	63.1	71.4
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):

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7	239.7
2.5°	240.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6	241.6
5°	244.3	244.3	244.3	245.2	245.2	245.2	245.2	245.2	245.2	245.2	245.2
7.5°	248.9	248.9	249.8	249.8	249.8	250.7	250.7	249.8	249.8	249.8	249.8
10°	254.4	254.4	255.3	256.2	256.2	257.1	257.1	256.2	256.2	255.3	255.3
12.5°	261.7	262.6	263.5	264.4	265.3	265.3	264.4	263.5	262.6	261.7	261.7
15°	270.8	271.7	272.7	274.5	274.5	274.5	273.6	272.7	270.8	269.9	270.8
17.5°	281.8	282.7	284.6	285.5	286.4	285.5	285.5	284.6	284.6	283.6	283.6
20°	295.5	296.4	299.2	300.1	300.1	301.0	303.8	305.6	308.3	309.3	309.3
22.5°	309.3	311.1	313.8	317.5	319.3	323.0	323.9	325.7	324.8	322.1	322.1
25°	325.7	327.6	333.0	337.6	341.3	343.1	341.3	338.5	334.0	330.3	329.4
27.5°	343.1	345.9	354.1	360.5	362.3	360.5	353.2	346.8	341.3	336.7	334.9
30°	365.1	369.6	378.8	382.5	381.5	374.2	363.2	355.0	346.8	341.3	340.4
32.5°	392.5	397.1	405.3	406.2	400.8	387.0	372.4	361.4	351.3	344.9	344.0
35°	425.5	430.0	434.6	431.9	416.3	398.9	380.6	365.1	355.0	347.7	347.7
37.5°	467.5	470.3	470.3	456.6	432.8	409.9	387.0	368.7	357.8	350.4	349.5
40°	522.4	521.5	508.7	482.2	451.1	420.0	391.6	372.4	358.7	351.3	350.4
42.5°	588.3	581.9	554.5	511.5	468.5	429.1	397.1	373.3	357.8	350.4	349.5
45°	668.8	657.9	608.5	545.3	486.8	437.4	399.8	372.4	355.0	346.8	345.9
47.5°	748.4	742.0	674.3	581.0	505.1	446.5	401.7	369.6	349.5	337.6	337.6
50°	832.6	817.1	740.2	624.0	524.3	452.9	401.7	365.1	340.4	327.6	325.7
52.5°	914.1	898.5	807.0	667.0	545.3	459.3	399.8	358.7	332.1	318.4	316.6
55°	983.6	970.8	872.0	715.5	567.3	463.9	397.1	351.3	323.9	311.1	309.3
57.5°	1047.6	1034.8	928.7	756.7	588.3	466.6	390.7	342.2	313.8	301.0	300.1
60°	1094.3	1084.2	977.2	795.1	605.7	466.6	381.5	331.2	302.9	290.0	289.1
62.5°	1125.4	1115.3	1012.0	820.7	616.7	460.2	367.8	316.6	289.1	277.2	274.5
65°	1137.3	1128.2	1027.5	830.8	614.9	447.4	349.5	298.3	271.7	259.9	258.0
66°	1138.2	1128.2	1027.5	829.0	610.3	440.1	341.3	290.0	264.4	252.5	250.7
67.5°	1130.9	1121.7	1021.1	819.8	597.5	426.4	324.8	276.3	250.7	238.8	237.9
70°	1097.0	1089.7	986.3	785.0	567.3	396.2	297.4	249.8	225.1	216.8	214.1
72.5°	1023.8	1015.6	916.8	720.1	517.9	355.0	262.6	218.7	198.5	188.5	187.6
75°	910.4	906.7	810.7	634.1	446.5	305.6	222.3	184.8	168.4	161.0	161.0
77.5°	762.2	754.8	673.4	524.3	366.9	247.0	178.4	150.1	137.2	130.8	131.8
80°	592.9	587.4	518.8	393.4	277.2	185.7	133.6	114.4	105.2	101.6	99.7
82.5°	406.2	391.6	345.9	260.8	180.2	125.4	92.4	79.6	75.0	74.1	73.2
85°	211.4	216.8	182.1	138.2	97.9	69.5	55.8	51.2	49.4	50.3	50.3
87.5°	69.5	71.4	54.9	42.1	32.0	24.7	21.0	20.1	17.4	19.2	20.1
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)