

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: P472159

Luminaire Tested: **CCW-VA-1-740-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472159
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-740-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3219.9 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

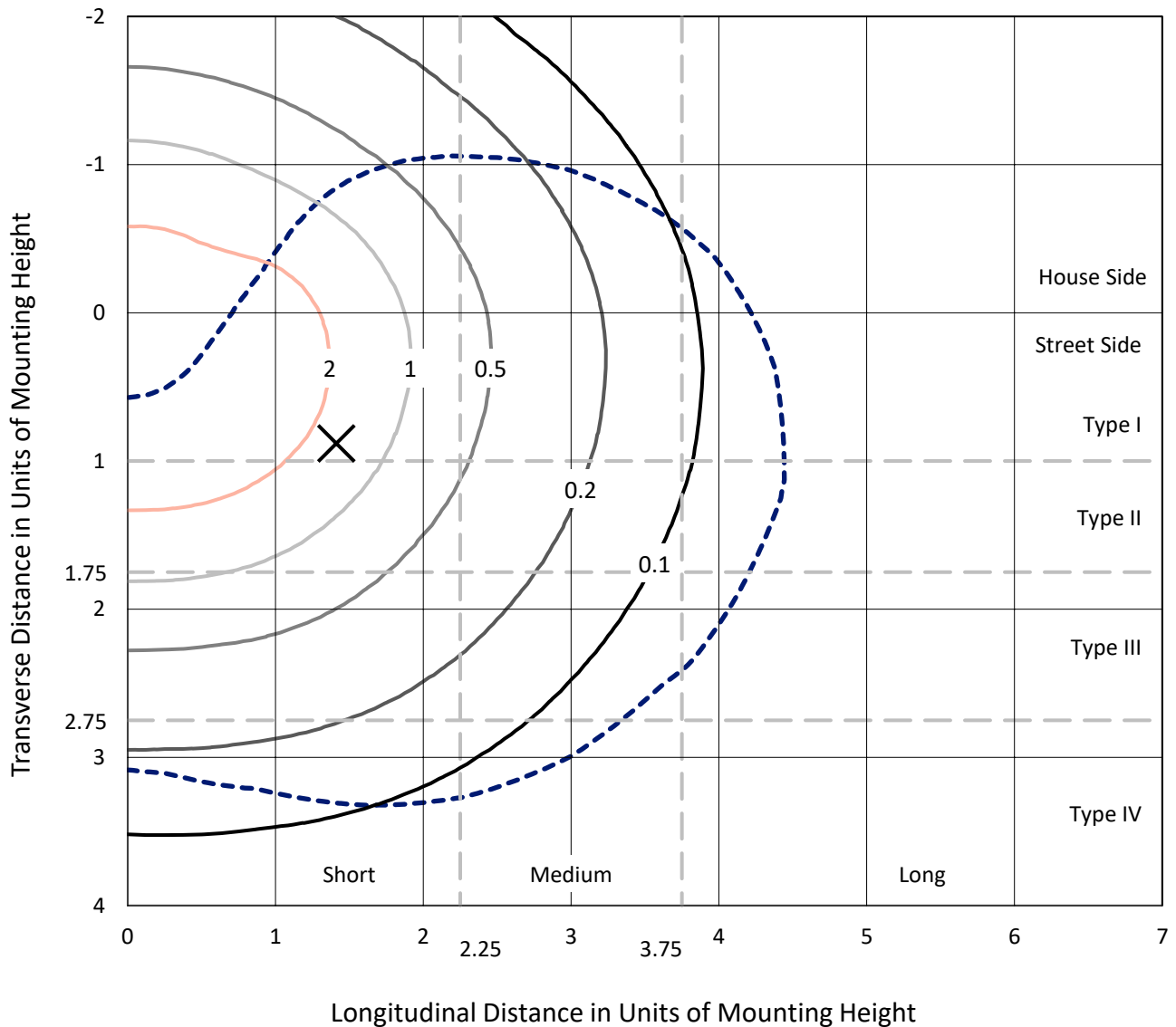
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

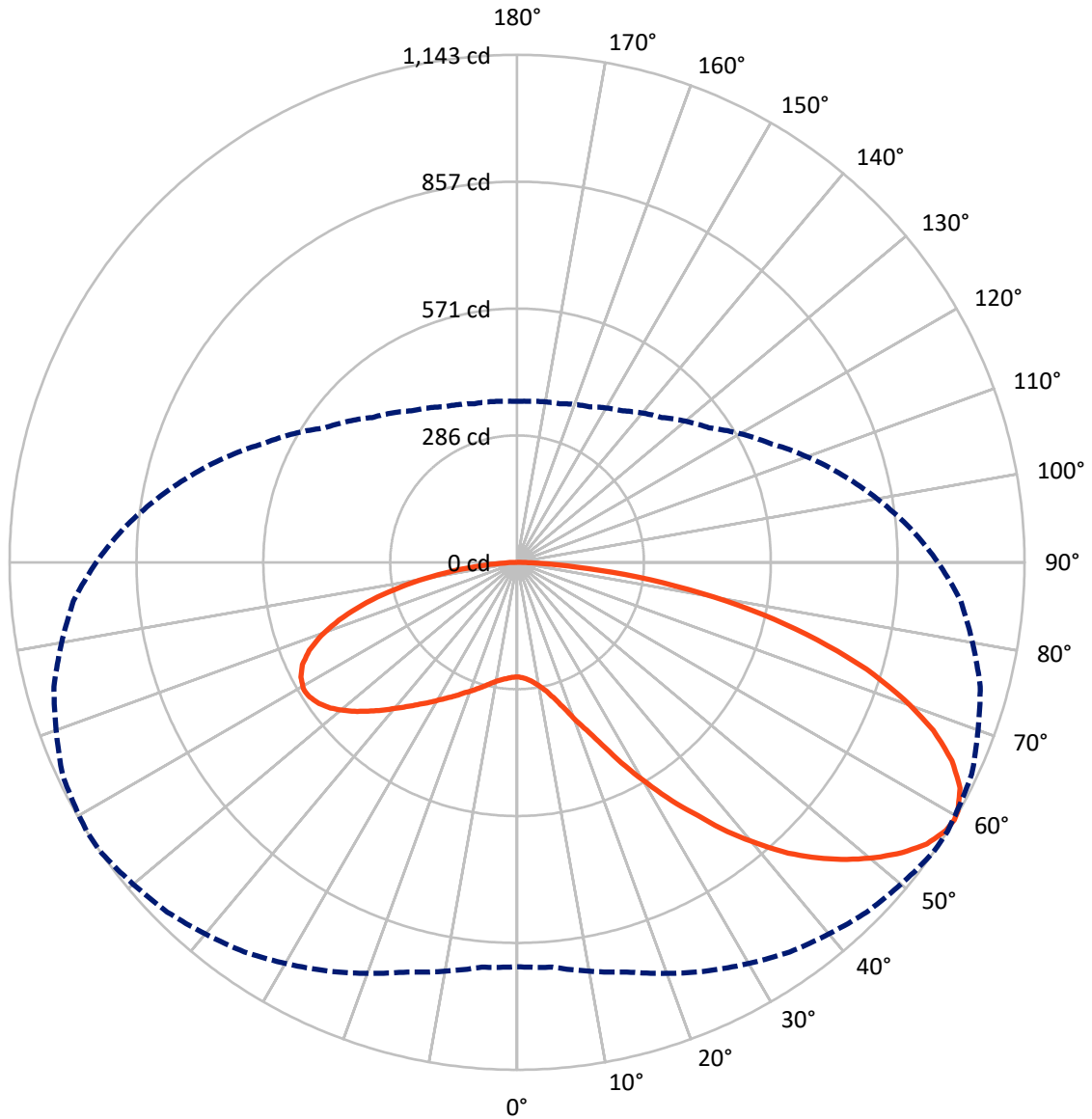
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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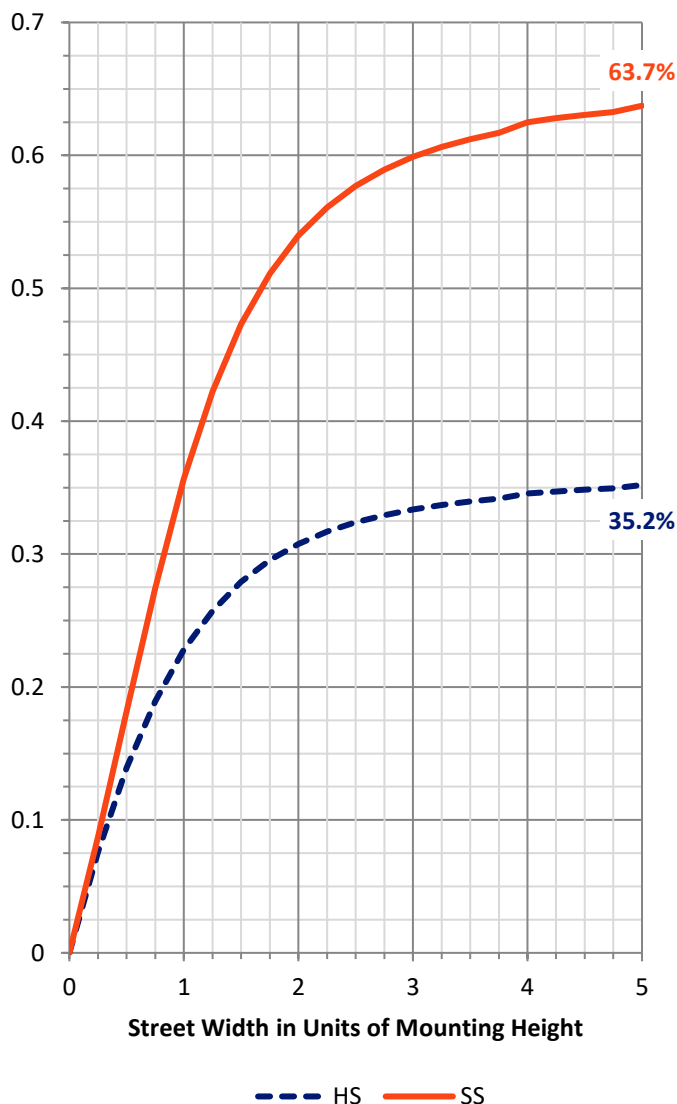
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1148.3	0.0	1148.3
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	2071.6	0.0	2071.6
	% Fixture	64.3	0.0	64.3
Total	Lumens	3219.9	0.0	3219.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.6	0.8
10°-20°	87.3	2.7
20°-30°	184.3	5.7
30°-40°	339.3	10.5
40°-50°	528.8	16.4
50°-60°	694.8	21.6
60°-70°	728.1	22.6
70°-80°	504.8	15.7
80°-90°	126.8	3.9
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°	3219.9	100.0
0°-180°	3219.9	100.0

Coefficient of Utilization

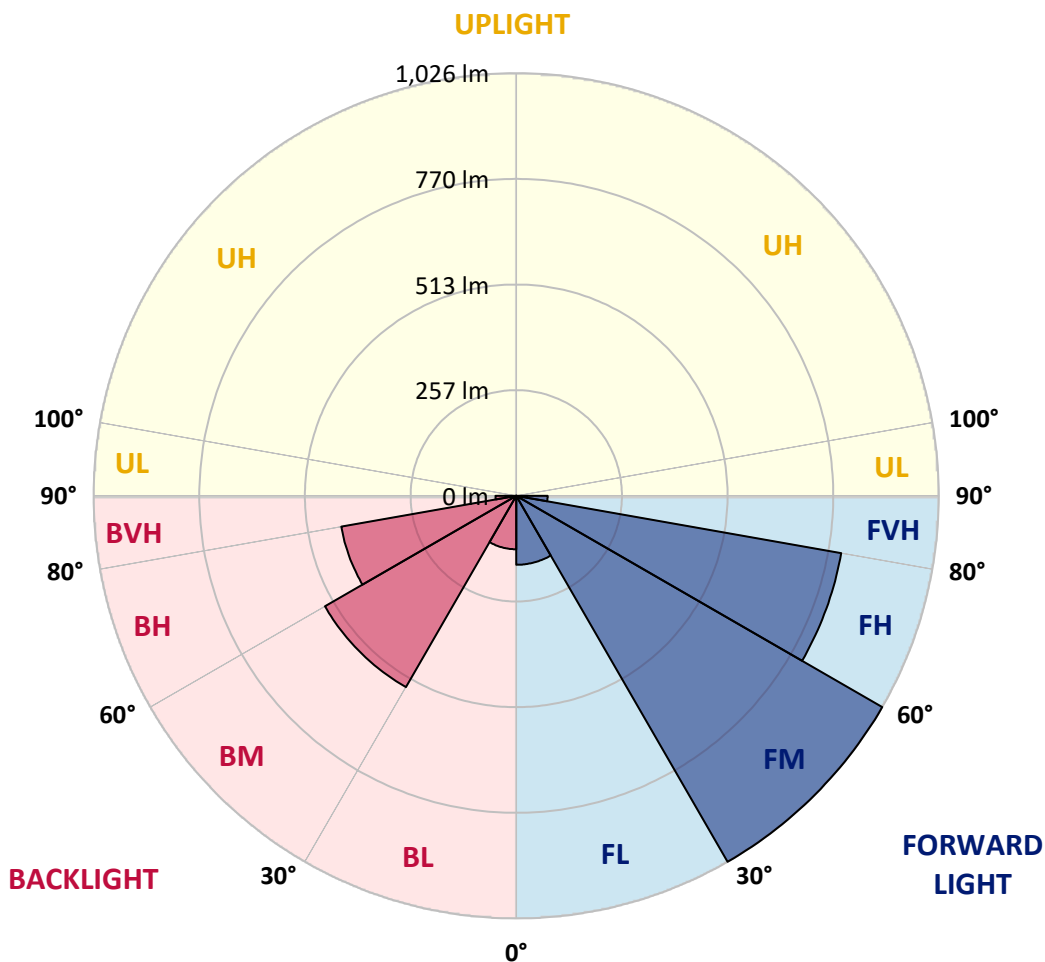


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	167.5	5.2			
FM (30°-60°)	1026.4	31.9			
FH (60°-80°)	801.4	24.9			G1/1800
FVH (80°-90°)	76.2	2.4			G1/100
BL (0°-30°)	129.8	4.0	B1/500		
BM (30°-60°)	536.5	16.7	B1/1000		
BH (60°-80°)	431.5	13.4	B1/500		G1/500
BVH (80°-90°)	50.6	1.6			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	258.1	258.1	258.1	258.1	258.1	258.1	258.1	258.1	258.1	258.1	258.1
2.5°	261.7	261.7	261.7	261.0	261.0	261.0	260.3	260.3	260.3	259.6	258.8
5°	267.5	267.5	266.8	267.5	266.8	266.1	265.4	265.4	265.4	264.6	263.9
7.5°	275.5	276.2	275.5	276.2	275.5	274.8	273.3	273.3	272.6	271.2	269.7
10°	287.8	287.8	287.8	287.1	286.4	285.7	284.9	284.2	283.5	281.3	279.1
12.5°	303.1	303.1	303.1	301.6	301.6	300.2	299.5	298.7	297.3	294.4	291.5
15°	321.9	321.2	323.4	323.4	322.7	322.7	320.5	319.0	317.6	313.2	306.7
17.5°	347.3	346.6	348.8	350.2	350.2	350.9	347.3	345.9	340.8	335.0	326.3
20°	381.4	379.9	382.1	383.6	382.1	383.6	379.9	380.7	373.4	363.3	349.5
22.5°	418.4	418.4	420.5	420.5	421.3	422.7	418.4	416.2	410.4	395.9	378.5
25°	464.0	467.7	467.7	467.7	470.6	471.3	466.9	463.3	455.3	435.8	411.8
27.5°	519.9	519.1	518.4	522.8	522.8	524.2	521.3	519.9	510.4	486.5	450.3
30°	579.3	575.0	577.9	579.3	582.2	584.4	581.5	577.1	565.5	539.4	494.5
32.5°	633.7	636.6	641.0	642.4	646.8	647.5	640.2	640.2	628.6	595.3	548.9
35°	695.3	695.3	706.9	712.0	712.0	716.4	705.5	699.7	691.7	656.9	598.2
37.5°	749.0	750.4	759.9	771.5	772.9	779.4	771.5	769.3	754.8	719.3	654.0
40°	799.0	800.5	812.1	825.8	833.8	844.0	836.0	832.4	817.1	776.5	709.8
42.5°	838.2	841.1	855.6	875.9	888.9	901.3	897.6	895.5	874.4	831.6	761.3
45°	867.9	873.0	893.3	917.2	935.3	953.5	954.2	949.8	930.3	882.4	811.3
47.5°	891.8	897.6	920.1	950.6	978.1	1000.6	1004.9	999.9	981.7	931.7	856.3
50°	911.4	914.3	939.7	978.8	1012.9	1041.2	1049.9	1045.5	1029.6	973.0	895.5
52.5°	921.6	925.9	954.9	999.9	1041.2	1075.3	1088.3	1086.1	1067.3	1010.7	930.3
55°	926.6	931.0	965.1	1016.5	1062.9	1102.8	1118.8	1119.5	1101.4	1044.8	962.9
57.5°	920.8	926.6	963.6	1020.9	1072.4	1115.1	1139.8	1139.1	1124.6	1070.9	990.4
59°	910.7	915.0	954.9	1015.1	1070.9	1113.7	1142.0	1142.7	1129.6	1079.6	1002.8
60°	899.1	904.2	944.8	1007.8	1065.1	1108.6	1138.3	1139.8	1128.9	1081.8	1007.8
62.5°	859.2	865.7	910.7	978.1	1040.5	1081.8	1117.3	1119.5	1113.7	1076.0	1011.5
65°	803.4	809.2	857.7	929.5	994.8	1037.6	1070.9	1076.0	1075.3	1049.9	997.0
67.5°	735.2	735.9	781.6	859.9	928.1	970.1	1002.0	1010.7	1017.3	1000.6	954.2
70°	653.3	652.6	696.8	774.4	842.5	886.8	918.7	924.5	941.1	928.1	890.4
72.5°	551.8	560.5	601.8	667.1	734.5	783.8	812.1	822.9	832.4	835.3	804.1
75°	456.1	465.5	498.1	559.0	617.0	662.7	693.2	698.2	715.6	720.0	691.0
77.5°	364.7	365.4	389.4	437.9	490.9	528.6	553.2	566.3	575.7	584.4	553.9
80°	255.9	259.6	276.2	311.1	352.4	392.3	412.6	421.3	427.8	433.6	423.4
82.5°	160.2	161.7	172.6	193.6	221.9	244.3	265.4	272.6	274.1	287.1	285.7
85°	76.1	76.9	84.1	94.3	106.6	124.7	132.7	132.7	142.8	152.3	152.3
87.5°	10.2	10.2	12.3	13.8	17.4	22.5	31.2	31.9	37.7	42.1	45.7
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°	258.1	258.1	258.1	258.1	258.1	258.1	258.1	258.1	258.1	258.1	258.1
2.5°	258.8	258.8	258.8	258.8	258.8	258.1	258.8	258.8	258.8	258.8	258.8
5°	263.9	263.2	262.5	261.7	261.7	261.0	261.0	261.0	261.0	261.0	261.0
7.5°	269.0	268.3	267.5	266.1	265.4	264.6	264.6	263.9	263.9	263.9	263.9
10°	277.7	277.0	274.1	271.9	270.4	269.7	269.0	268.3	267.5	267.5	267.5
12.5°	289.3	287.8	282.8	279.9	277.7	276.2	274.8	274.1	273.3	272.6	272.6
15°	303.8	300.2	293.7	289.3	286.4	284.2	282.0	280.6	279.9	279.1	279.1
17.5°	321.2	316.9	308.2	300.2	295.1	291.5	288.6	286.4	285.7	285.7	285.7
20°	343.0	335.7	323.4	312.5	304.5	299.5	295.1	292.9	292.2	291.5	290.7
22.5°	368.3	358.9	340.8	324.1	314.0	306.7	301.6	298.7	296.6	295.8	295.8
25°	397.3	383.6	359.6	339.3	325.6	315.4	308.9	305.3	301.6	300.2	300.2
27.5°	432.1	414.0	382.1	355.3	336.4	324.1	316.9	311.8	308.2	305.3	303.8
30°	469.8	449.5	406.8	372.7	348.8	335.0	326.3	320.5	315.4	310.3	309.6
32.5°	517.7	488.7	436.5	392.3	363.3	345.9	335.7	328.5	321.9	316.9	315.4
35°	566.3	531.5	467.7	412.6	377.0	356.0	343.7	335.7	329.2	323.4	322.7
37.5°	616.3	579.3	501.7	436.5	393.0	367.6	352.4	343.7	335.7	329.9	329.2
40°	668.5	625.0	536.5	461.1	409.7	379.2	361.8	350.9	342.2	337.2	336.4
42.5°	717.8	670.7	574.2	490.1	429.2	391.5	371.2	359.6	348.8	343.7	343.0
45°	764.9	714.2	612.0	517.0	448.8	404.6	380.7	366.9	355.3	350.2	349.5
47.5°	807.7	757.0	646.8	546.0	469.1	419.1	390.8	374.1	361.1	356.0	356.0
50°	846.1	793.2	680.8	572.8	488.0	433.6	399.5	380.7	367.6	362.5	361.8
52.5°	882.4	825.1	710.6	596.0	506.1	446.6	408.2	385.7	372.0	366.2	365.4
55°	911.4	854.1	735.2	614.9	518.4	455.3	414.0	388.6	373.4	368.3	367.6
57.5°	936.8	878.0	752.6	627.9	526.4	460.4	416.9	388.6	372.7	366.9	366.2
59°	947.7	888.2	758.4	631.5	527.8	461.1	416.2	386.5	369.8	364.0	362.5
60°	953.5	892.6	760.6	632.3	527.1	459.7	415.5	384.3	366.9	360.4	360.4
62.5°	959.3	896.2	757.7	626.5	519.1	451.7	408.2	375.6	356.0	348.8	348.8
65°	946.9	883.1	741.0	610.5	503.2	437.9	394.4	361.1	339.3	332.1	332.1
67.5°	910.7	851.2	710.6	580.8	477.1	414.0	372.0	337.9	317.6	309.6	307.4
70°	849.0	799.0	662.7	538.0	441.6	383.6	343.7	311.1	290.0	282.0	279.1
72.5°	766.4	717.1	598.9	485.8	394.4	343.7	308.9	277.7	254.5	246.5	247.2
75°	652.6	617.8	516.2	419.8	340.1	292.9	263.9	237.8	218.2	211.7	212.4
77.5°	529.3	500.3	418.4	342.2	277.7	241.4	216.8	195.8	182.7	179.1	176.9
80°	405.3	377.0	314.0	255.2	211.0	185.6	168.9	154.4	144.3	139.2	140.7
82.5°	271.9	254.5	208.1	168.9	143.6	125.4	119.6	110.2	106.6	103.7	105.9
85°	146.5	131.2	108.8	90.6	79.0	74.0	75.4	74.7	71.8	71.1	73.2
87.5°	47.9	41.3	31.9	26.8	27.6	24.7	24.7	23.2	21.0	20.3	21.8
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)