

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: P472313

Luminaire Tested: **CCW-VA-1-730-U-T3**

Issue Date: 01/27/2021

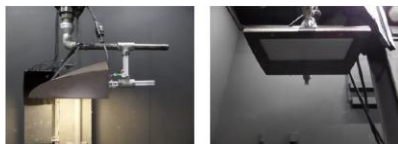
Test Information

Test Method: LM-79-08
Report Number: P472313
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-730-U-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2764.4 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

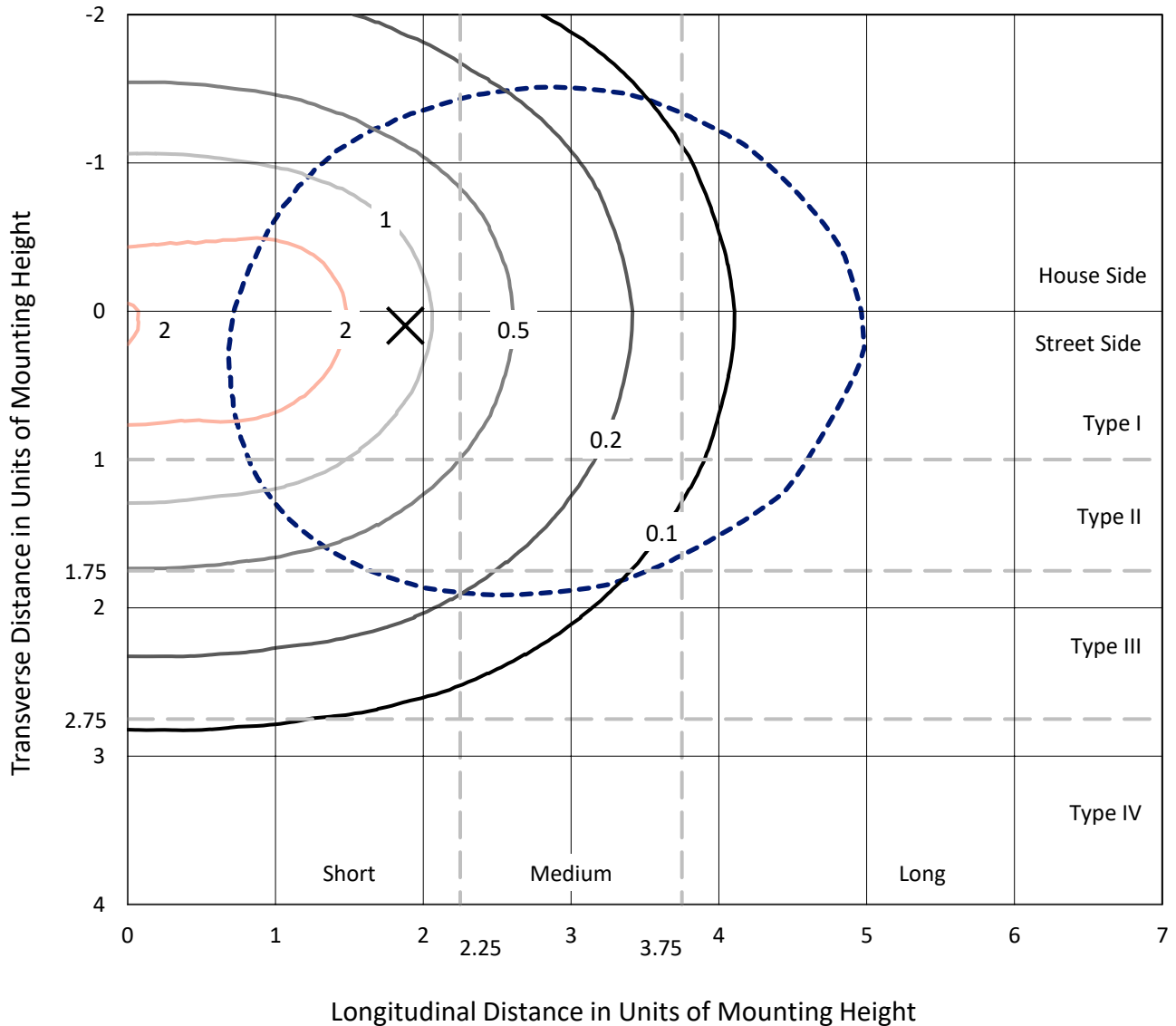
Input Watts (W): 30.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

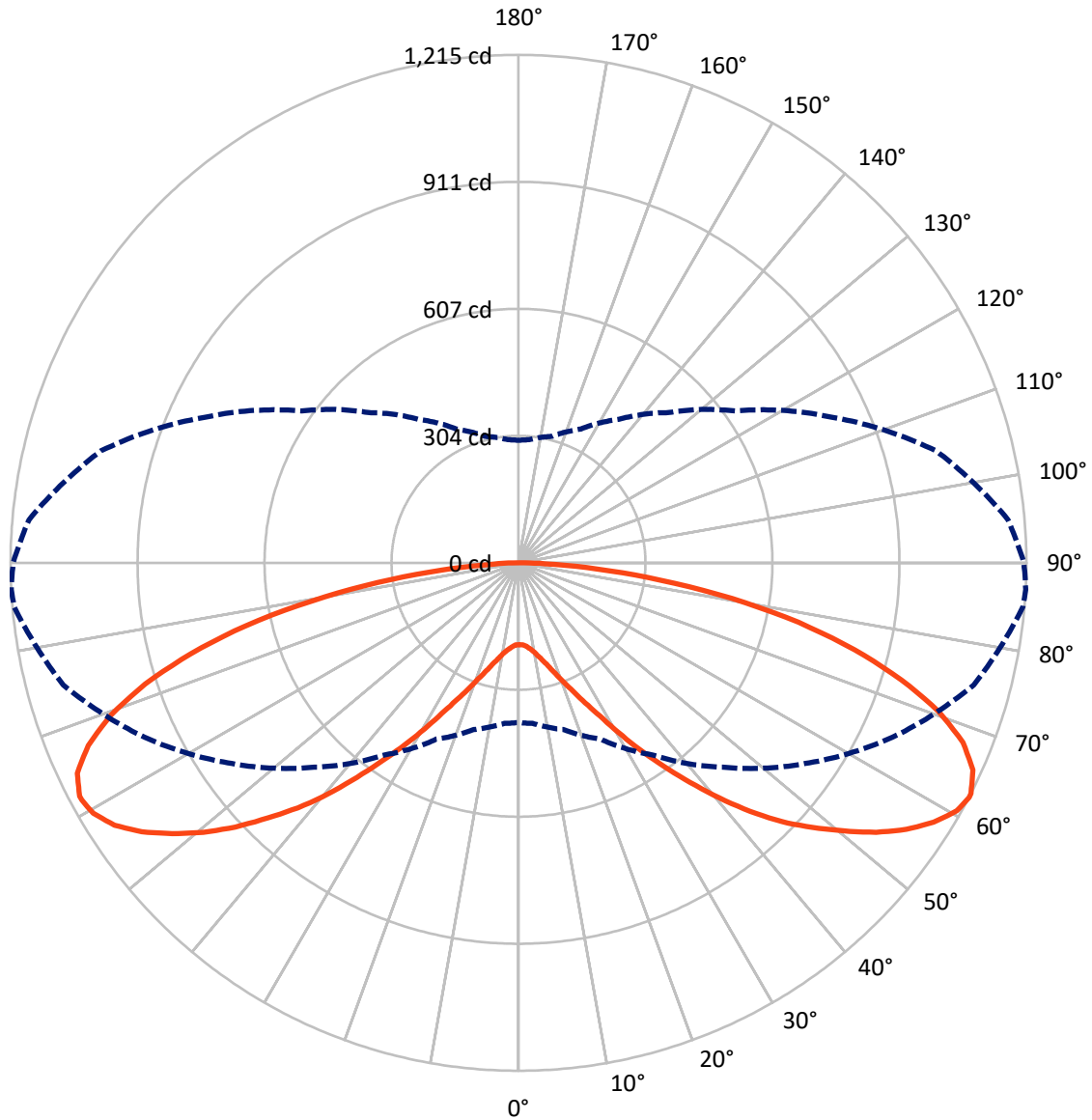
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 87-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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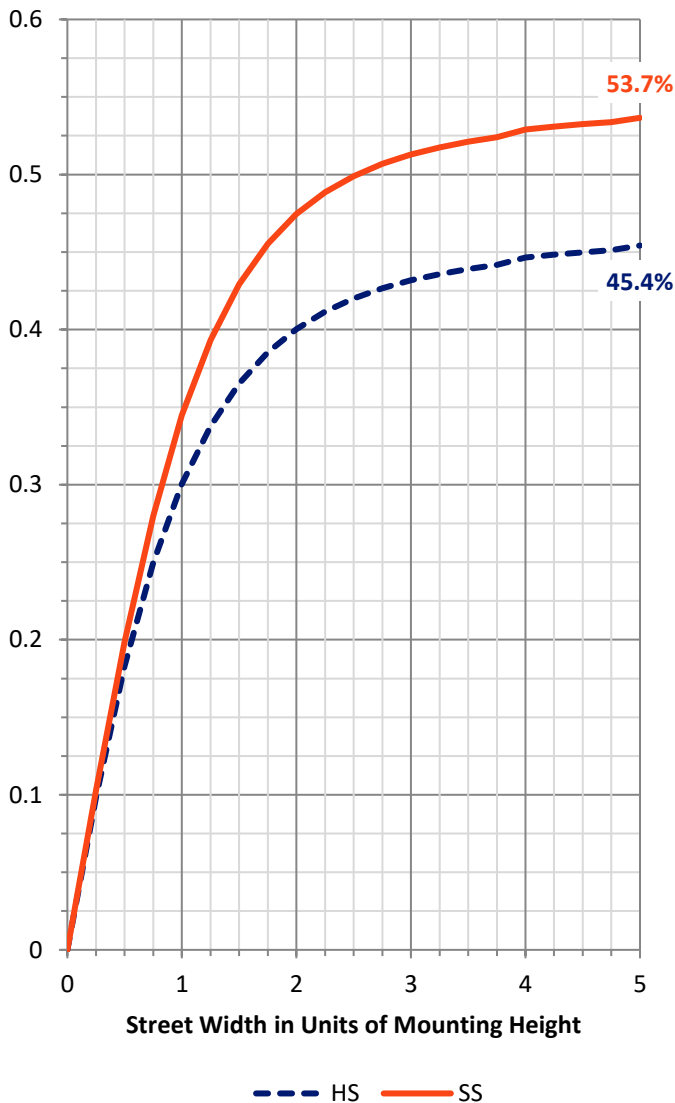
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1272.8	0.0	1272.8
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	1491.6	0.0	1491.6
	% Fixture	54.0	0.0	54.0
Total	Lumens	2764.4	0.0	2764.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.7	0.7
10°-20°	69.5	2.5
20°-30°	148.5	5.4
30°-40°	273.7	9.9
40°-50°	436.5	15.8
50°-60°	593.6	21.5
60°-70°	643.2	23.3
70°-80°	459.6	16.6
80°-90°	120.1	4.3
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°	2764.4	100.0
0°-180°	2764.4	100.0

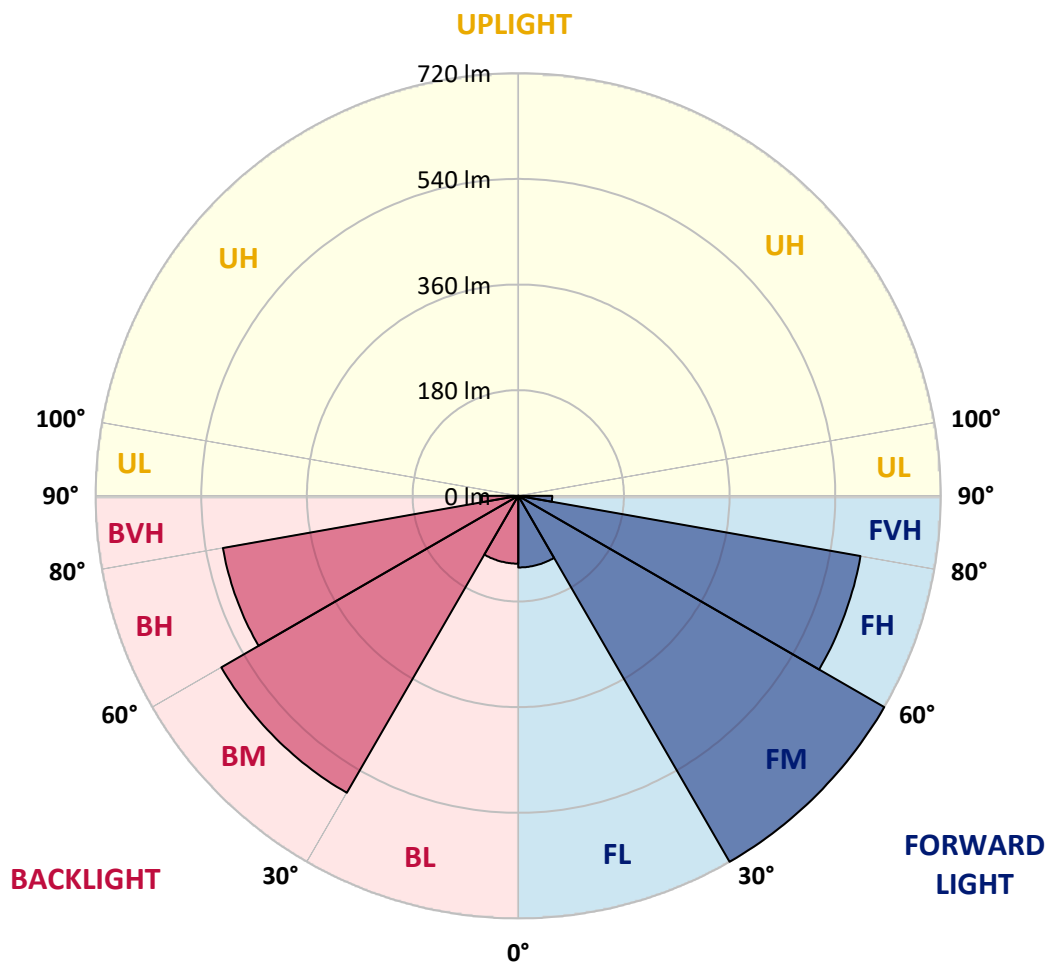


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	122.1	4.4			
FM (30°-60°)	719.8	26.0			
FH (60°-80°)	591.9	21.4			G0/660
FVH (80°-90°)	57.9	2.1			G1/100
BL (0°-30°)	115.6	4.2	B1/500		
BM (30°-60°)	584.1	21.1	B1/1000		
BH (60°-80°)	510.9	18.5	B2/1000		G2/1000
BVH (80°-90°)	62.3	2.3			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	195.6	195.6	195.6	195.6	195.6	195.6	195.6	195.6	195.6	195.6	195.6
2.5°	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.1	196.5	196.5
5°	197.4	197.0	197.0	197.4	197.9	198.3	199.2	199.6	200.5	201.4	201.0
7.5°	201.4	201.4	201.4	201.9	203.2	204.1	205.4	206.8	208.1	209.0	208.6
10°	207.7	207.7	207.7	208.6	209.9	212.6	214.8	217.0	218.4	219.3	219.7
12.5°	214.4	214.4	215.2	217.0	219.7	223.3	227.3	230.4	232.6	233.5	234.0
15°	223.7	224.2	225.9	227.7	231.3	236.6	243.3	247.8	250.0	251.8	251.3
17.5°	238.0	237.5	238.9	242.9	246.9	254.5	262.5	270.1	274.5	274.5	274.5
20°	254.0	253.6	254.5	257.6	264.3	274.5	287.0	297.2	302.1	301.3	302.1
22.5°	271.8	271.8	272.7	275.4	282.1	296.8	314.2	329.3	336.0	333.8	332.9
25°	291.5	291.5	292.8	295.0	304.4	322.2	345.4	367.2	373.9	371.7	370.8
27.5°	314.2	312.4	315.1	317.3	328.9	352.5	382.8	410.4	425.1	417.6	414.9
30°	338.2	336.9	337.4	341.8	355.2	385.5	421.6	458.6	479.1	474.2	470.2
32.5°	359.2	360.1	361.4	369.0	384.1	420.7	462.6	511.2	534.3	533.0	532.1
35°	382.8	382.8	385.5	392.6	414.9	458.1	508.9	563.7	598.1	599.4	596.7
37.5°	401.5	401.5	405.5	414.9	441.2	492.4	554.8	619.4	660.9	668.0	665.8
40°	418.0	417.1	421.6	435.4	466.1	529.0	599.8	674.7	730.4	742.4	739.3
42.5°	427.8	428.7	434.9	452.3	490.2	561.1	644.0	726.8	791.9	812.4	812.4
45°	434.9	435.8	445.2	465.7	512.0	592.7	684.1	780.3	852.1	881.9	883.3
47.5°	438.1	439.4	451.0	475.9	530.3	621.7	722.8	828.5	906.0	948.3	945.7
50°	438.1	439.9	453.7	483.5	546.8	646.2	759.4	874.4	960.8	1008.0	1007.6
52.5°	435.4	437.6	454.6	489.3	560.6	669.8	791.9	913.6	1013.4	1069.1	1070.9
55°	430.0	432.7	452.3	492.9	571.3	688.5	818.2	950.1	1058.9	1121.7	1125.7
57.5°	419.4	422.0	444.3	489.8	575.3	698.3	837.4	976.0	1095.8	1169.4	1170.3
60°	401.5	404.6	428.7	479.5	571.3	698.8	842.3	987.5	1120.8	1201.5	1204.6
62°	381.9	385.5	412.7	465.3	561.1	691.6	836.9	987.1	1127.5	1210.8	1214.8
62.5°	377.0	380.1	407.8	460.4	557.1	688.1	833.8	984.9	1126.6	1211.3	1214.4
65°	346.7	349.8	377.9	433.6	532.5	666.2	811.1	965.3	1110.5	1193.4	1194.3
67.5°	313.3	316.4	344.5	397.1	497.3	629.7	772.7	926.5	1067.8	1139.5	1146.2
70°	274.5	279.0	304.8	357.0	451.0	577.1	712.1	865.0	999.6	1060.6	1066.9
72.5°	236.2	239.3	259.8	305.7	390.8	508.0	633.7	771.9	894.4	952.3	957.7
75°	191.6	194.3	214.4	252.2	323.5	423.4	541.9	662.7	774.1	826.2	830.2
77.5°	151.1	152.0	166.2	196.5	251.3	332.0	430.0	525.4	626.6	673.8	684.5
80°	106.5	111.0	120.8	141.7	176.5	238.0	308.8	390.4	461.2	514.3	517.8
82.5°	69.1	70.0	76.2	83.8	108.7	150.2	196.5	246.9	310.2	344.5	341.8
85°	36.1	36.1	38.3	40.6	49.0	67.3	94.9	130.1	167.1	193.0	189.4
87.5°	6.2	5.8	6.2	5.8	7.6	10.7	20.1	32.5	49.0	57.9	63.7
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°	195.6	195.6	195.6	195.6	195.6	195.6	195.6	195.6	195.6	195.6	195.6
2.5°	196.5	196.5	197.0	197.9	197.9	198.3	198.8	198.8	199.2	199.6	199.6
5°	201.9	201.9	202.3	203.2	203.7	203.7	204.1	204.6	204.6	204.6	205.0
7.5°	209.0	209.5	209.9	210.3	210.8	210.8	212.1	211.7	211.7	211.7	211.7
10°	219.3	220.1	220.1	220.1	220.1	219.7	220.1	219.7	218.8	218.8	218.4
12.5°	234.4	234.4	233.5	232.6	231.3	230.8	230.4	229.1	227.3	226.4	226.4
15°	251.8	250.9	249.1	247.3	245.1	243.3	240.2	238.4	236.2	235.3	235.3
17.5°	274.1	272.7	267.8	264.3	258.9	254.9	251.3	247.8	245.1	244.2	243.8
20°	299.5	296.4	289.2	281.2	274.1	267.8	261.1	256.7	254.0	251.8	251.3
22.5°	331.6	327.1	314.6	302.1	289.2	280.3	271.8	265.6	260.7	258.5	257.6
25°	366.3	359.6	343.6	324.9	307.0	293.2	282.5	274.1	268.3	264.7	263.8
27.5°	410.4	400.6	377.0	348.9	325.3	307.9	293.2	283.4	275.9	270.5	269.6
30°	462.1	451.9	412.7	375.7	345.8	321.3	305.3	292.3	283.0	276.7	275.4
32.5°	523.6	504.9	459.9	407.8	366.8	336.9	316.4	301.3	289.7	282.5	280.8
35°	586.0	566.9	507.6	441.6	389.0	353.0	328.4	310.2	297.2	288.3	287.4
37.5°	656.0	632.8	563.3	480.0	413.1	369.9	339.6	318.6	303.0	293.7	292.8
40°	731.3	707.7	623.0	524.1	441.6	386.4	350.3	326.7	309.3	299.0	297.7
42.5°	805.3	777.2	683.6	568.2	470.6	404.6	362.8	335.1	314.6	303.9	302.1
45°	869.5	844.9	745.1	619.0	504.0	423.4	375.2	343.1	320.4	308.4	306.6
47.5°	942.1	915.8	812.4	665.8	536.1	444.8	387.3	350.3	325.3	312.4	311.1
50°	1006.3	982.6	872.1	709.0	566.9	464.8	398.4	357.0	329.3	315.5	313.7
52.5°	1064.6	1043.7	926.9	749.6	593.2	483.5	408.7	361.9	332.0	316.9	314.6
55°	1123.5	1096.3	974.6	785.2	614.1	498.2	417.1	364.1	331.6	316.0	313.7
57.5°	1167.6	1141.7	1009.4	810.6	629.7	508.0	422.0	363.6	328.9	312.0	309.3
60°	1197.4	1168.9	1029.9	823.1	635.0	511.2	422.0	359.6	322.2	303.9	301.3
62°	1208.6	1175.6	1033.9	824.9	632.8	508.0	418.9	353.0	313.3	295.5	292.8
62.5°	1209.0	1175.2	1032.6	823.6	631.5	506.7	417.1	350.7	311.1	292.8	290.1
65°	1189.4	1155.6	1016.5	809.7	616.3	494.7	404.6	337.8	295.5	277.6	275.0
67.5°	1133.3	1107.4	978.2	777.6	590.5	472.4	386.4	319.1	277.2	258.5	257.1
70°	1055.3	1031.7	915.8	729.1	553.0	440.3	359.2	294.1	254.0	237.1	234.0
72.5°	957.2	926.5	827.1	664.0	499.1	396.2	323.5	262.9	227.3	212.1	210.3
75°	835.6	798.6	715.7	578.0	434.5	343.1	282.1	228.2	196.5	183.6	184.9
77.5°	680.5	663.1	578.4	460.8	353.8	283.9	231.3	193.4	166.2	155.5	154.6
80°	513.8	497.3	438.1	349.8	267.4	214.8	179.1	152.4	133.7	124.3	123.9
82.5°	348.5	332.9	287.9	234.9	182.3	152.0	129.7	112.3	100.7	96.3	96.3
85°	191.6	178.3	152.4	127.0	102.9	86.9	83.8	74.9	71.7	70.9	71.7
87.5°	59.7	59.3	50.4	41.4	36.1	36.5	33.0	33.9	32.1	31.6	33.9
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)