

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: P472273

Luminaire Tested: **CCW-VA-1-740-U-T4FT**

Issue Date: 01/27/2021

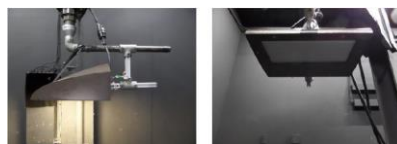
Test Information

Test Method: LM-79-08
Report Number: P472273
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-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3331.9 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

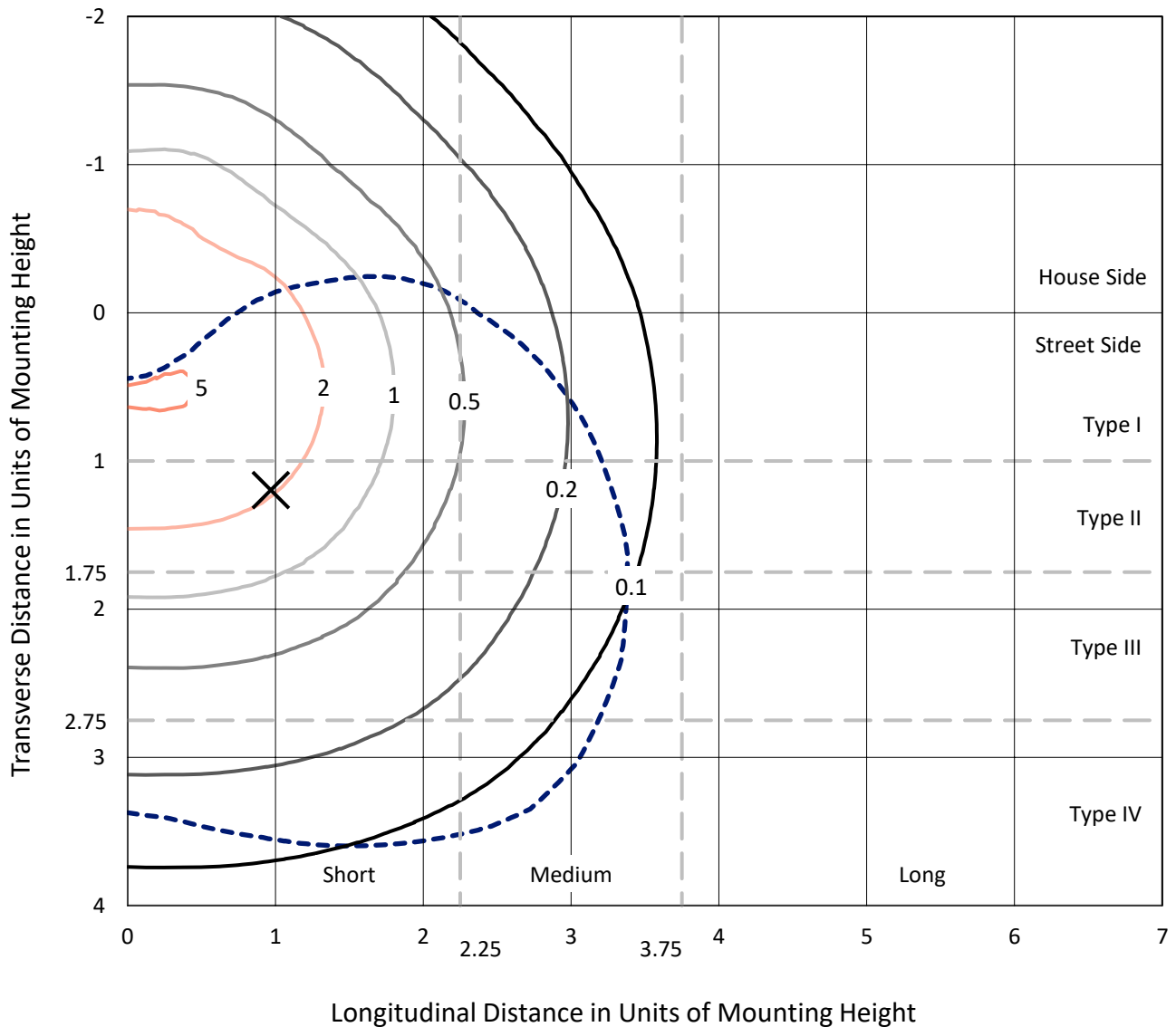
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

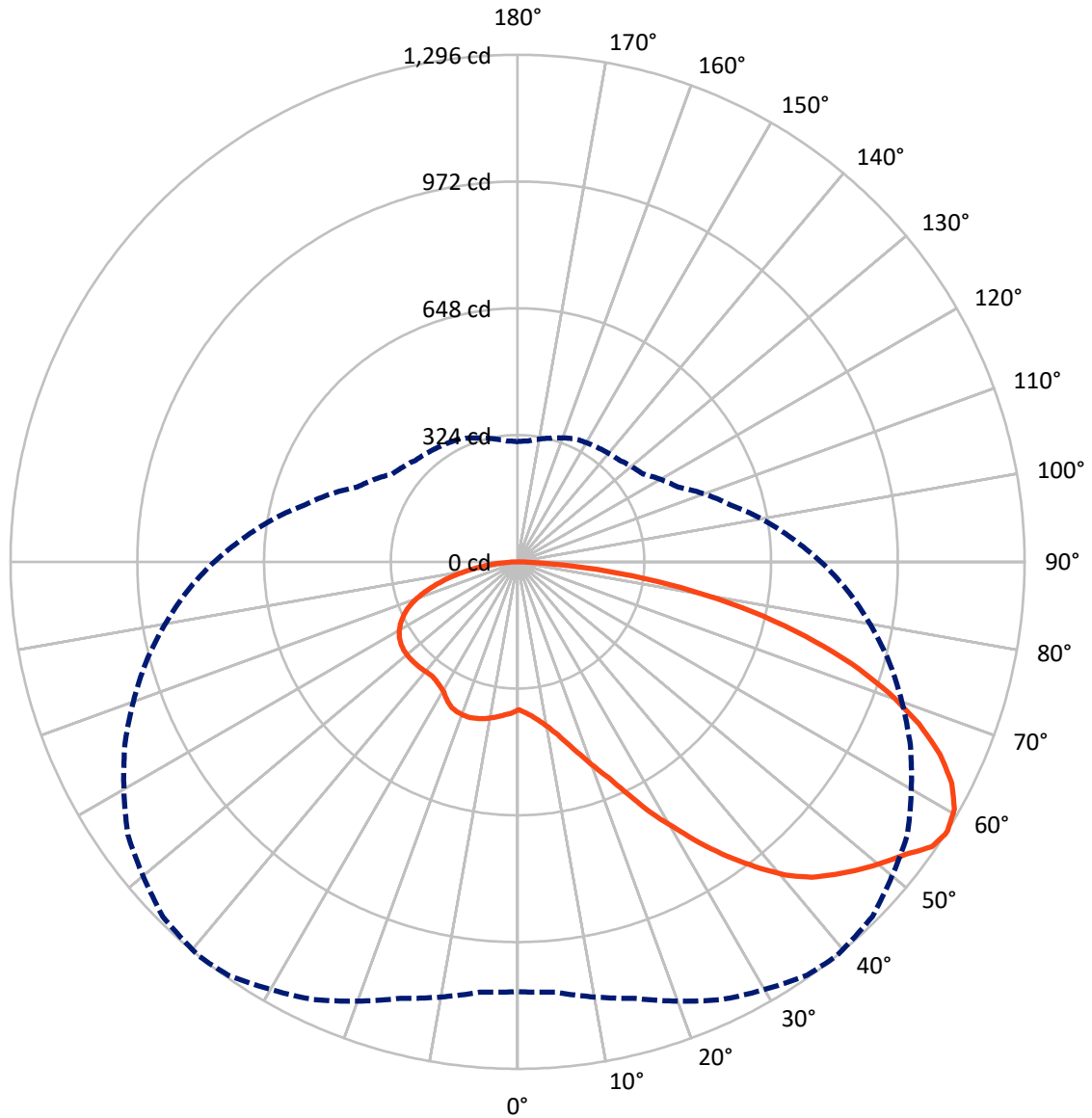
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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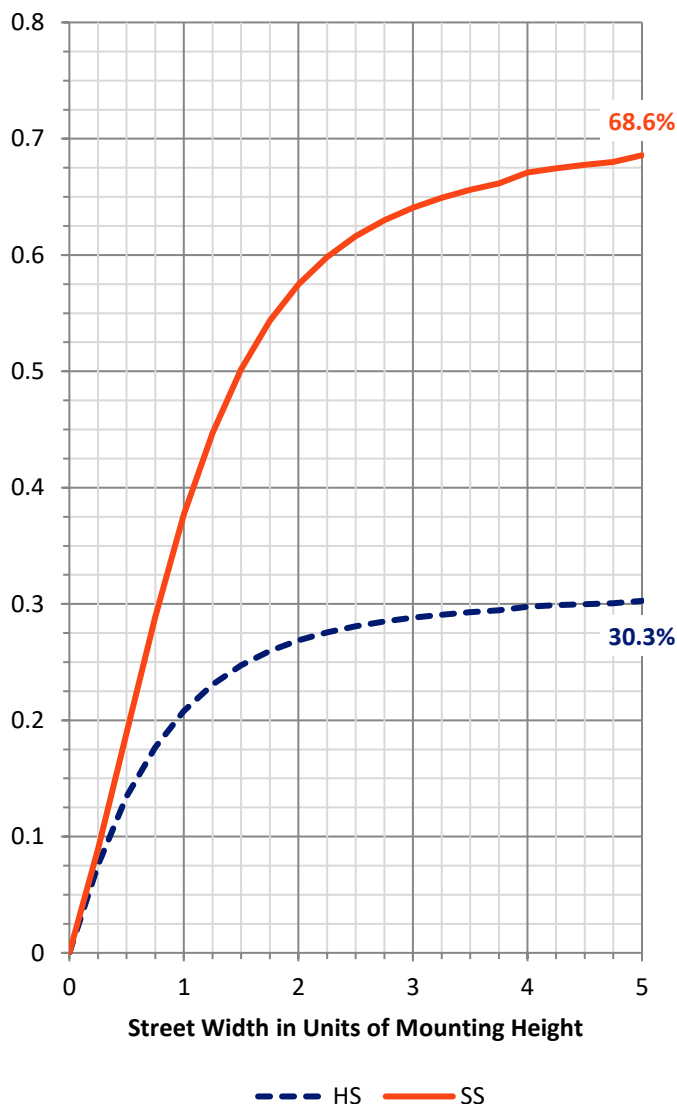
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1022.4	0.0	1022.4
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	2309.6	0.0	2309.6
	% Fixture	69.3	0.0	69.3
Total	Lumens	3331.9	0.0	3331.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	1.1
10°-20°	127.6	3.8
20°-30°	246.5	7.4
30°-40°	398.6	12.0
40°-50°	560.1	16.8
50°-60°	691.9	20.8
60°-70°	687.7	20.6
70°-80°	465.3	14.0
80°-90°	116.1	3.5
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°	3331.9	100.0
0°-180°	3331.9	100.0

Coefficient of Utilization

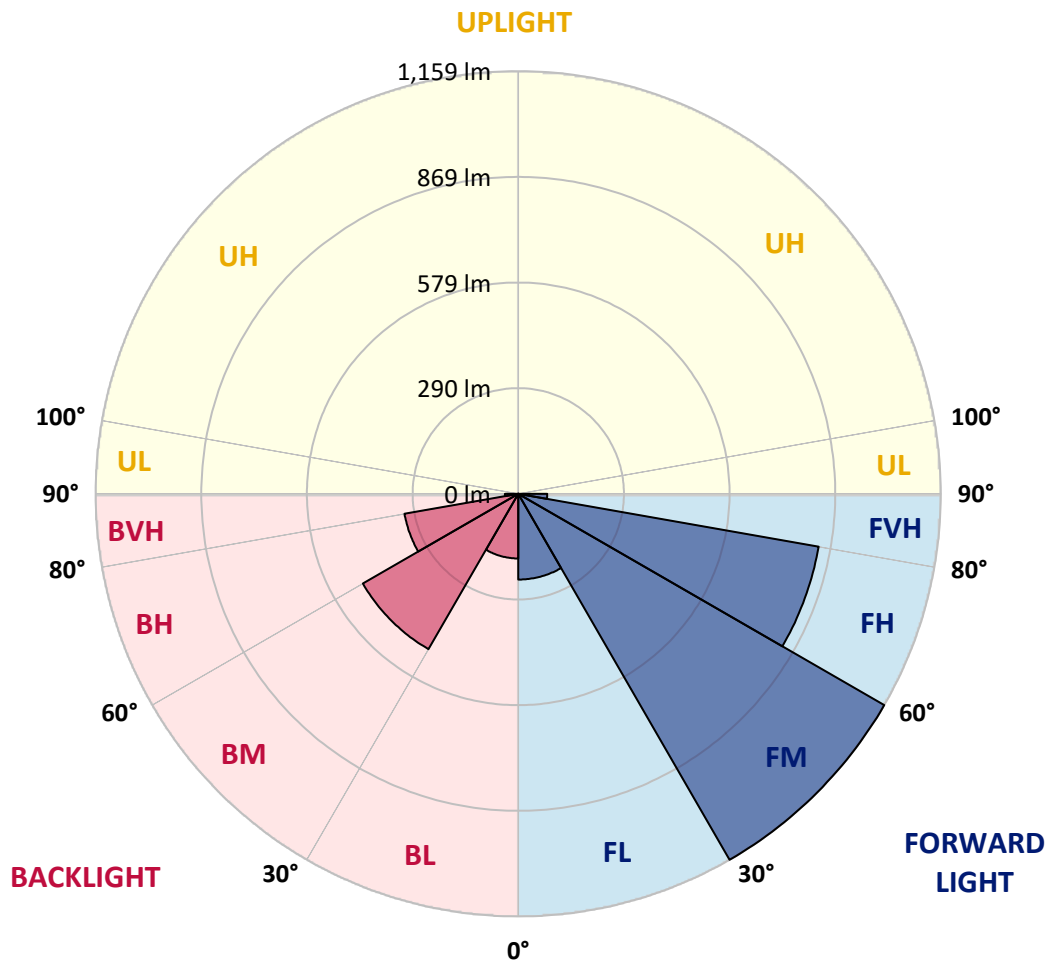


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	235.1	7.1			
FM (30°-60°)	1158.7	34.8			
FH (60°-80°)	836.3	25.1			G1/1800
FVH (80°-90°)	79.5	2.4			G1/100
BL (0°-30°)	177.2	5.3	B1/500		
BM (30°-60°)	491.9	14.8	B1/1000		
BH (60°-80°)	316.6	9.5	B1/500		G1/500
BVH (80°-90°)	36.7	1.1			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°	39°	45°	55°	65°	75°	85°
0°	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8
2.5°	389.1	388.5	388.0	388.0	387.0	386.0	385.5	384.5	385.0	386.0	386.5
5°	400.3	399.3	399.3	398.2	396.7	396.7	395.2	393.1	392.6	392.1	392.1
7.5°	417.6	416.1	416.6	415.1	413.6	411.5	409.0	406.4	405.4	401.8	398.8
10°	437.6	437.1	435.5	433.0	431.4	429.4	426.8	422.2	418.7	414.6	412.0
12.5°	461.0	460.0	460.5	458.5	455.9	452.4	448.3	443.7	437.1	429.4	424.3
15°	491.7	489.6	489.6	489.1	484.0	483.0	478.9	468.7	459.5	449.3	437.6
17.5°	529.0	528.4	526.4	524.4	521.3	517.7	513.6	502.4	488.6	472.8	457.0
20°	568.8	567.8	569.3	566.2	560.1	558.6	551.9	539.2	522.3	503.9	479.9
22.5°	612.2	613.2	613.2	612.2	607.1	600.9	595.3	578.5	559.1	536.6	508.5
25°	664.8	665.3	668.3	671.4	668.3	658.6	651.0	624.9	598.9	570.3	537.1
27.5°	724.0	720.4	729.1	734.7	729.1	726.5	709.7	681.1	645.4	609.6	568.3
30°	781.2	781.2	788.3	796.5	792.9	786.8	773.0	736.2	695.4	650.0	599.9
32.5°	834.3	840.4	843.5	862.4	860.3	857.3	841.4	792.9	741.9	690.3	630.6
35°	897.1	895.0	907.8	919.5	928.7	924.6	912.9	863.9	797.0	732.7	664.3
37.5°	944.6	948.6	959.9	980.8	987.4	989.5	974.7	924.1	848.1	778.1	701.5
40°	980.8	983.9	1005.3	1031.9	1045.7	1052.8	1038.0	976.7	896.1	814.4	730.6
42.5°	1009.9	1012.0	1034.4	1072.2	1095.2	1102.3	1089.1	1024.2	936.9	843.5	754.6
45°	1029.3	1032.9	1059.4	1098.2	1134.0	1139.1	1132.5	1066.1	973.2	871.0	772.0
47.5°	1046.2	1050.2	1079.9	1128.9	1168.7	1175.3	1169.2	1102.8	1007.9	896.1	786.8
50°	1068.6	1073.2	1102.8	1157.5	1201.4	1209.0	1207.0	1141.6	1040.5	924.1	802.1
52.5°	1090.1	1093.6	1128.9	1189.6	1237.1	1242.2	1240.7	1177.9	1073.7	954.3	821.5
55°	1106.9	1111.0	1152.9	1227.9	1279.0	1284.6	1273.9	1206.0	1099.8	976.2	839.9
57°	1098.2	1103.9	1154.9	1234.6	1289.7	1295.8	1282.0	1216.2	1107.4	982.3	846.5
57.5°	1095.7	1099.8	1152.9	1234.1	1290.2	1295.8	1282.0	1215.7	1106.9	981.8	846.5
60°	1058.4	1068.1	1127.9	1215.7	1275.4	1282.6	1269.3	1195.3	1094.2	967.5	832.7
62.5°	1008.4	1021.7	1084.5	1172.3	1239.7	1244.8	1231.5	1161.0	1065.6	937.4	804.2
65°	936.4	956.8	1022.7	1107.4	1180.4	1186.6	1173.3	1103.9	1018.1	891.5	761.3
67.5°	865.9	878.2	948.6	1029.3	1097.2	1106.4	1095.2	1033.4	952.7	830.2	704.1
70°	785.8	794.5	852.7	931.8	1000.2	1007.9	998.2	940.5	864.4	754.1	637.2
72.5°	689.3	698.5	748.0	821.0	881.8	894.0	887.4	827.6	758.7	663.2	562.7
75°	580.5	590.7	635.2	693.4	752.6	759.7	752.1	708.2	645.9	559.6	471.8
77.5°	470.7	477.4	509.6	553.5	599.4	614.7	612.7	581.5	518.7	450.3	378.8
80°	352.3	353.3	370.2	406.4	443.2	454.4	457.0	428.9	387.5	336.0	283.9
82.5°	222.6	226.2	235.4	262.4	280.3	295.6	299.2	282.9	256.8	224.7	192.5
85°	103.6	100.6	107.7	116.9	142.4	142.4	147.0	138.4	130.7	120.0	99.6
87.5°	8.7	8.2	8.2	8.7	13.8	14.8	23.5	26.0	28.1	28.1	29.6
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°	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8	377.8
2.5°	385.5	385.0	383.4	383.4	384.5	386.0	386.5	387.0	387.5	388.0	388.0
5°	391.6	391.1	390.1	389.1	390.1	390.6	392.1	393.1	393.1	394.2	393.7
7.5°	397.2	397.7	396.7	396.2	396.2	397.2	399.3	400.8	401.8	402.3	403.4
10°	410.0	406.9	402.8	400.8	400.8	402.8	404.9	406.9	409.0	410.0	410.0
12.5°	421.2	417.6	410.0	406.9	406.4	408.5	411.0	414.1	415.6	417.1	417.1
15°	431.4	428.4	419.2	412.0	410.0	411.5	414.6	418.2	420.7	422.2	422.2
17.5°	450.8	441.6	429.4	417.6	413.6	414.1	417.6	421.2	424.3	425.3	424.8
20°	469.2	457.5	439.1	422.2	415.6	413.6	417.1	421.7	424.3	425.8	425.8
22.5°	490.2	477.4	448.8	426.8	414.6	411.5	414.6	418.7	421.7	422.8	423.8
25°	519.8	497.3	459.5	430.4	413.1	406.9	409.0	413.1	416.6	417.1	416.6
27.5°	546.3	520.8	473.8	434.0	409.5	398.2	396.2	399.3	404.9	408.5	409.5
30°	569.3	545.8	488.6	437.1	402.8	384.0	381.4	382.4	386.0	395.7	396.2
32.5°	603.5	567.2	503.4	439.6	395.2	376.3	372.7	371.7	372.7	377.8	377.8
35°	627.0	591.2	518.2	444.2	389.6	370.2	366.6	365.1	364.0	358.9	357.4
37.5°	657.6	617.8	532.5	448.3	387.0	367.6	362.5	363.5	358.4	344.1	340.0
40°	691.3	641.8	546.8	452.4	388.0	368.1	363.5	363.0	354.3	334.4	330.3
42.5°	707.7	662.2	561.6	458.0	392.1	369.7	365.6	364.0	353.3	330.9	325.2
45°	723.5	677.0	572.4	462.6	396.2	371.7	366.6	365.1	352.8	327.8	323.7
47.5°	737.8	686.2	577.5	465.1	399.3	373.2	367.1	364.5	350.3	326.3	322.2
50°	744.4	691.3	577.5	465.1	400.3	374.8	366.1	362.5	346.2	323.7	320.1
52.5°	754.6	694.4	572.9	462.1	398.8	374.8	364.0	358.4	341.1	320.1	317.1
55°	769.9	700.0	566.7	457.5	395.2	371.7	360.5	352.8	333.9	315.0	312.5
57°	775.0	702.0	562.7	451.9	391.1	367.6	356.4	346.7	327.3	309.9	307.4
57.5°	774.0	701.0	561.1	450.3	389.6	366.1	355.4	345.1	325.7	308.9	306.3
60°	760.2	691.3	551.4	440.6	381.4	357.9	346.2	334.9	315.0	300.2	298.2
62.5°	737.8	669.4	534.1	427.9	370.2	346.7	334.4	321.7	301.7	289.0	288.0
65°	699.5	632.6	509.0	409.5	355.9	331.9	318.6	304.8	287.5	276.2	273.2
67.5°	635.7	583.6	473.8	384.0	333.9	313.5	299.2	284.9	269.1	259.4	257.3
70°	582.6	530.0	428.9	351.8	307.4	288.0	274.7	260.9	247.1	238.4	237.9
72.5°	515.2	464.6	372.7	312.0	273.7	254.8	244.6	232.3	221.6	213.9	213.9
75°	433.5	393.7	314.5	264.5	233.3	219.5	210.9	201.2	192.0	186.9	187.9
77.5°	344.6	314.5	256.8	213.9	191.0	181.8	173.6	168.0	162.4	157.8	158.3
80°	254.3	231.8	188.9	157.3	146.0	137.9	136.3	132.7	129.7	128.2	125.6
82.5°	174.1	154.2	125.6	107.7	99.6	97.0	97.5	97.5	98.0	98.0	97.0
85°	90.4	82.7	63.8	57.7	56.7	59.2	62.3	64.3	63.8	63.8	62.3
87.5°	26.0	23.5	20.4	18.4	19.4	20.9	18.4	17.9	17.4	16.8	16.8
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)