

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: P472301

Luminaire Tested: **CCW-VA-1-850-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472301
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-850-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3234 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

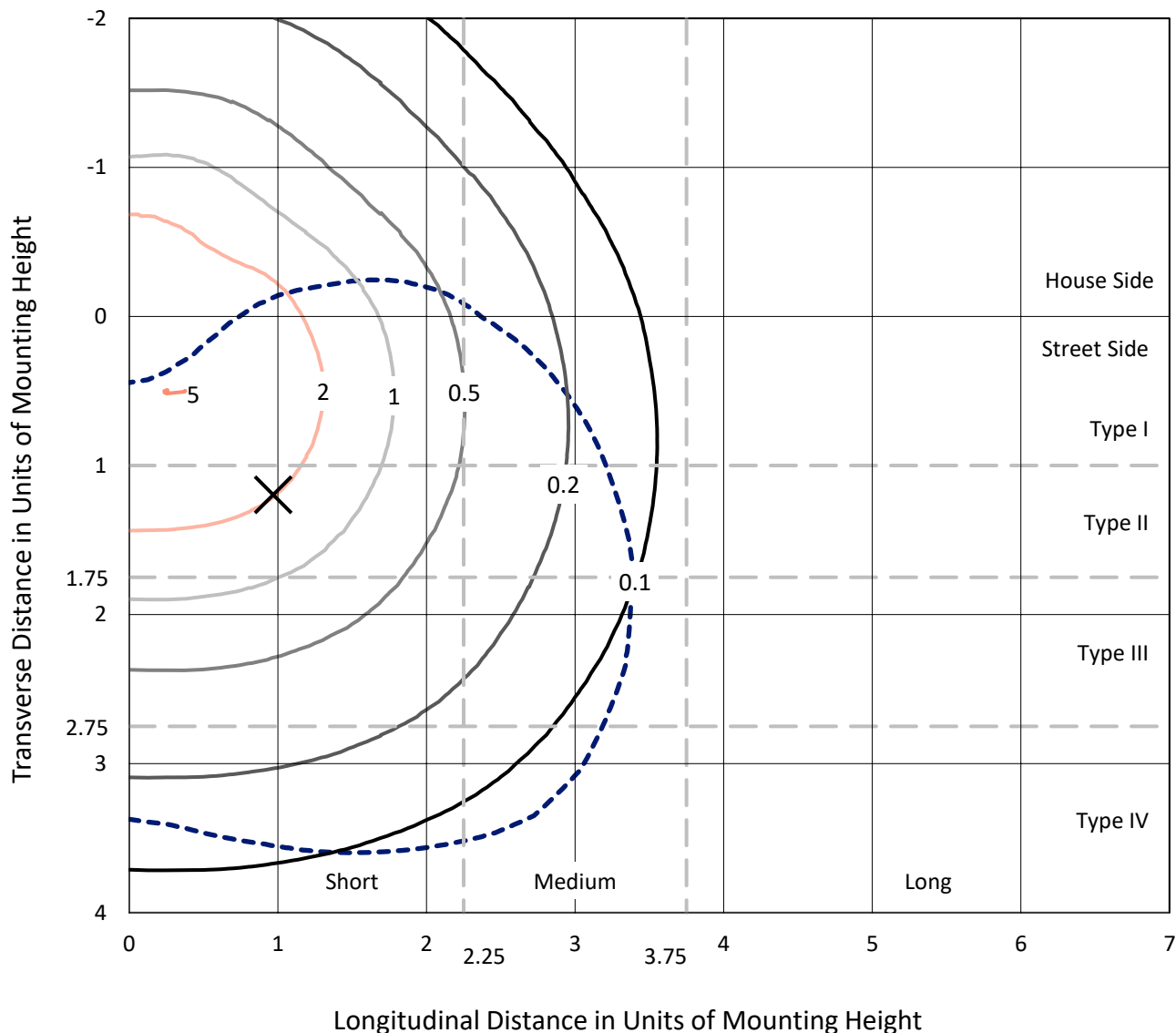
Input Watts (W): 30.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

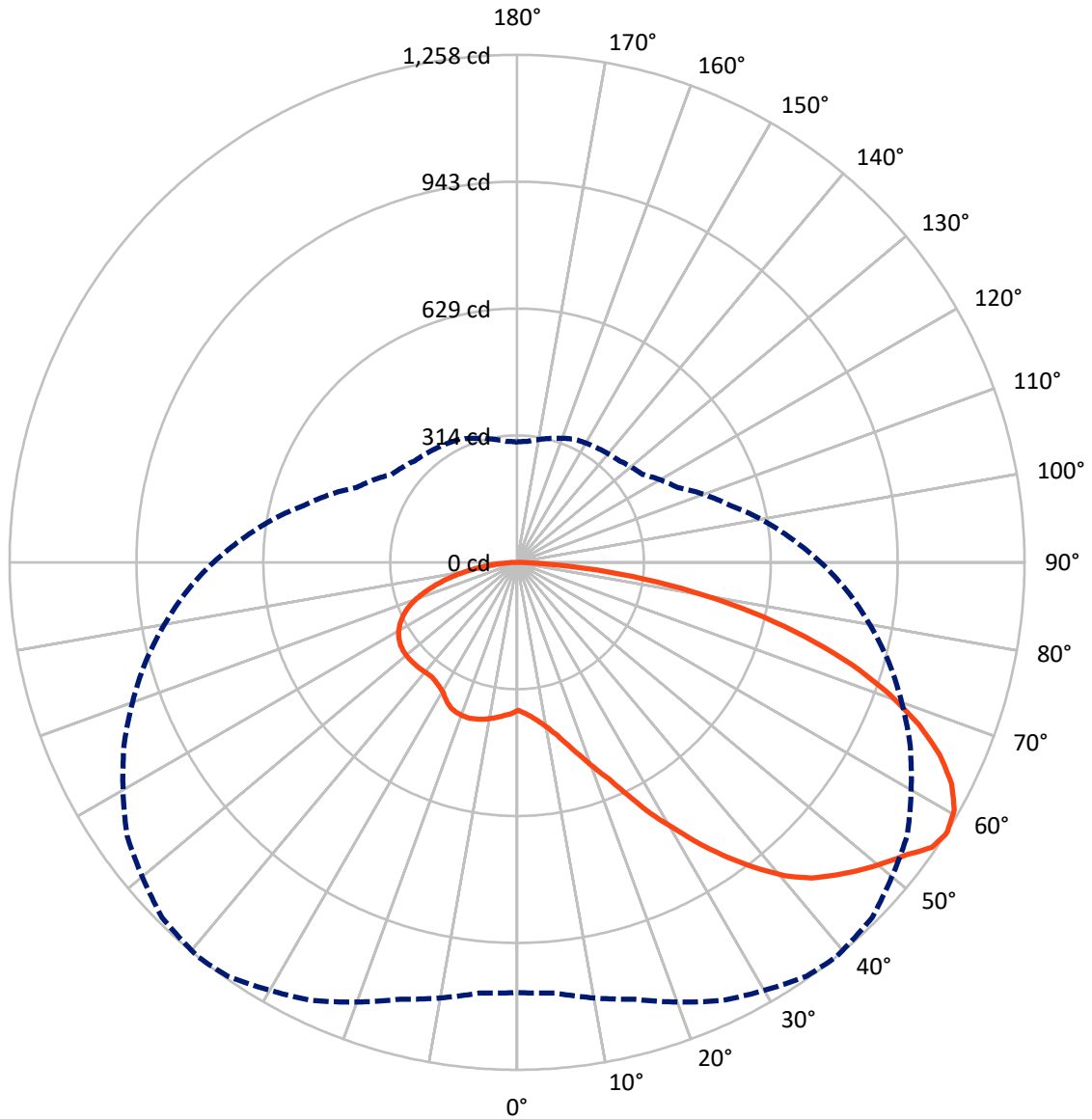
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 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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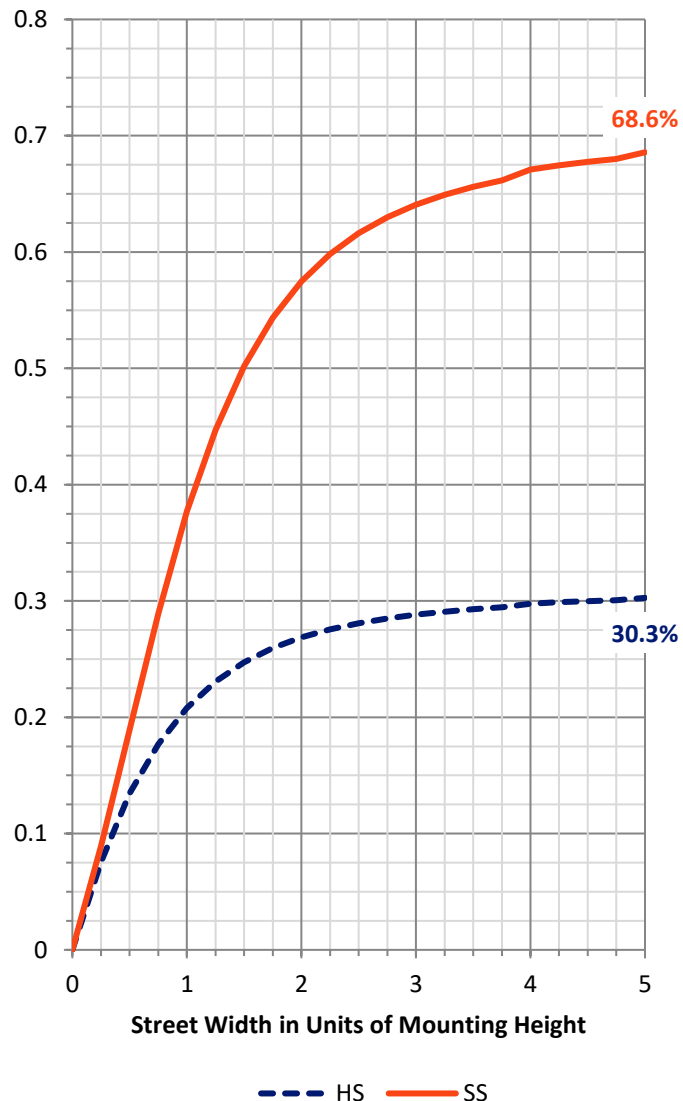
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	992.3	0.0	992.3
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	2241.7	0.0	2241.7
	% Fixture	69.3	0.0	69.3
Total	Lumens	3234.0	0.0	3234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	1.1
10°-20°	123.8	3.8
20°-30°	239.2	7.4
30°-40°	386.9	12.0
40°-50°	543.6	16.8
50°-60°	671.5	20.8
60°-70°	667.4	20.6
70°-80°	451.6	14.0
80°-90°	112.7	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°	3234.0	100.0
0°-180°	3234.0	100.0

Coefficient of Utilization



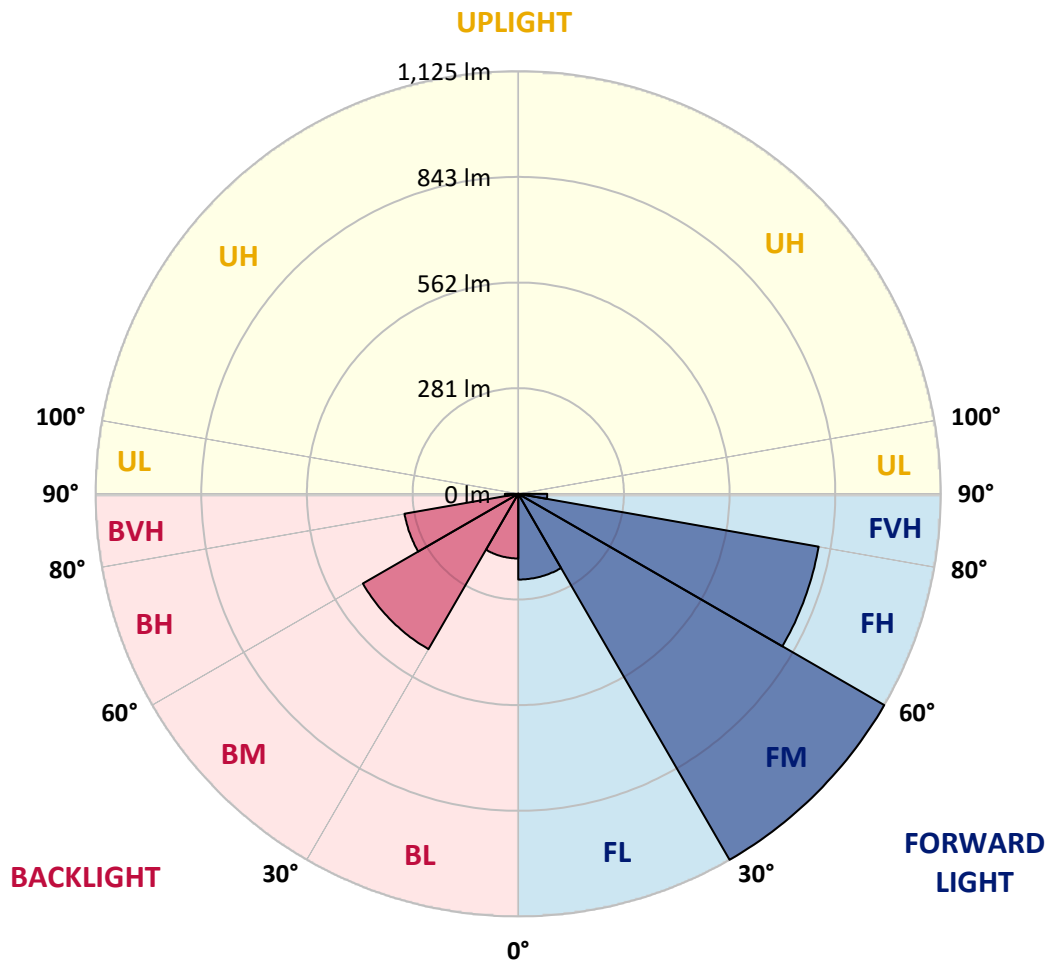
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	228.2	7.1			
FM (30°-60°)	1124.6	34.8			
FH (60°-80°)	811.7	25.1			G1/1800
FVH (80°-90°)	77.1	2.4			G1/100
BL (0°-30°)	172.0	5.3	B1/500		
BM (30°-60°)	477.4	14.8	B1/1000		
BH (60°-80°)	307.3	9.5	B1/500		G1/500
BVH (80°-90°)	35.6	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°	366.7	366.7	366.7	366.7	366.7	366.7	366.7	366.7	366.7	366.7	366.7
2.5°	377.6	377.1	376.6	376.6	375.6	374.6	374.1	373.2	373.7	374.6	375.1
5°	388.5	387.5	387.5	386.5	385.1	385.1	383.6	381.6	381.1	380.6	380.6
7.5°	405.4	403.9	404.4	402.9	401.4	399.4	396.9	394.5	393.5	390.0	387.0
10°	424.7	424.2	422.7	420.2	418.8	416.8	414.3	409.8	406.4	402.4	399.9
12.5°	447.5	446.5	447.0	445.0	442.5	439.1	435.1	430.6	424.2	416.8	411.8
15°	477.2	475.2	475.2	474.7	469.8	468.8	464.8	454.9	446.0	436.1	424.7
17.5°	513.4	512.9	510.9	508.9	506.0	502.5	498.5	487.6	474.3	458.9	443.5
20°	552.1	551.1	552.6	549.6	543.6	542.1	535.7	523.3	507.0	489.1	465.8
22.5°	594.2	595.2	595.2	594.2	589.2	583.3	577.8	561.5	542.6	520.8	493.6
25°	645.2	645.7	648.7	651.7	648.7	639.3	631.8	606.6	581.3	553.5	521.3
27.5°	702.7	699.2	707.7	713.1	707.7	705.2	688.8	661.1	626.4	591.7	551.6
30°	758.2	758.2	765.1	773.1	769.6	763.7	750.3	714.6	675.0	630.9	582.3
32.5°	809.7	815.7	818.7	837.0	835.0	832.0	816.7	769.6	720.1	670.0	612.0
35°	870.7	868.7	881.1	892.5	901.4	897.5	886.1	838.5	773.6	711.1	644.7
37.5°	916.8	920.8	931.7	952.0	958.4	960.4	946.0	897.0	823.1	755.2	680.9
40°	952.0	954.9	975.8	1001.5	1014.9	1021.8	1007.5	948.0	869.7	790.4	709.1
42.5°	980.2	982.2	1004.0	1040.7	1063.0	1069.9	1057.0	994.1	909.4	818.7	732.4
45°	999.1	1002.5	1028.3	1066.0	1100.6	1105.6	1099.2	1034.7	944.5	845.4	749.3
47.5°	1015.4	1019.4	1048.1	1095.7	1134.3	1140.8	1134.8	1070.4	978.2	869.7	763.7
50°	1037.2	1041.7	1070.4	1123.4	1166.1	1173.5	1171.5	1108.1	1010.0	897.0	778.5
52.5°	1058.0	1061.5	1095.7	1154.7	1200.7	1205.7	1204.2	1143.3	1042.2	926.2	797.4
55°	1074.4	1078.3	1119.0	1191.8	1241.4	1246.8	1236.4	1170.5	1067.4	947.5	815.2
57°	1066.0	1071.4	1121.0	1198.3	1251.8	1257.7	1244.4	1180.4	1074.9	953.5	821.6
57.5°	1063.5	1067.4	1119.0	1197.8	1252.3	1257.7	1244.4	1179.9	1074.4	953.0	821.6
60°	1027.3	1036.7	1094.7	1179.9	1237.9	1244.9	1232.0	1160.1	1062.0	939.1	808.3
62.5°	978.7	991.6	1052.6	1137.8	1203.2	1208.2	1195.3	1126.9	1034.2	909.9	780.5
65°	908.9	928.7	992.6	1074.9	1145.7	1151.7	1138.8	1071.4	988.2	865.3	738.9
67.5°	840.5	852.4	920.8	999.1	1065.0	1073.9	1063.0	1003.0	924.7	805.8	683.4
70°	762.7	771.1	827.6	904.4	970.8	978.2	968.8	912.8	839.0	731.9	618.5
72.5°	669.0	677.9	726.0	796.9	855.8	867.7	861.3	803.3	736.4	643.7	546.1
75°	563.5	573.4	616.5	673.0	730.5	737.4	730.0	687.3	626.9	543.1	457.9
77.5°	456.9	463.4	494.6	537.2	581.8	596.7	594.7	564.4	503.5	437.1	367.7
80°	341.9	342.9	359.3	394.5	430.1	441.1	443.5	416.3	376.1	326.1	275.5
82.5°	216.1	219.5	228.5	254.7	272.1	286.9	290.4	274.5	249.3	218.0	186.8
85°	100.6	97.6	104.6	113.5	138.3	138.3	142.7	134.3	126.9	116.5	96.6
87.5°	8.4	7.9	7.9	8.4	13.4	14.4	22.8	25.3	27.3	27.3	28.7
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°	366.7	366.7	366.7	366.7	366.7	366.7	366.7	366.7	366.7	366.7	366.7
2.5°	374.1	373.7	372.2	372.2	373.2	374.6	375.1	375.6	376.1	376.6	376.6
5°	380.1	379.6	378.6	377.6	378.6	379.1	380.6	381.6	381.6	382.6	382.1
7.5°	385.5	386.0	385.1	384.6	384.6	385.5	387.5	389.0	390.0	390.5	391.5
10°	397.9	395.0	391.0	389.0	389.0	391.0	393.0	395.0	396.9	397.9	397.9
12.5°	408.8	405.4	397.9	395.0	394.5	396.4	398.9	401.9	403.4	404.9	404.9
15°	418.8	415.8	406.9	399.9	397.9	399.4	402.4	405.9	408.3	409.8	409.8
17.5°	437.6	428.7	416.8	405.4	401.4	401.9	405.4	408.8	411.8	412.8	412.3
20°	455.4	444.0	426.2	409.8	403.4	401.4	404.9	409.3	411.8	413.3	413.3
22.5°	475.7	463.4	435.6	414.3	402.4	399.4	402.4	406.4	409.3	410.3	411.3
25°	504.5	482.7	446.0	417.8	400.9	395.0	396.9	400.9	404.4	404.9	404.4
27.5°	530.3	505.5	459.9	421.2	397.4	386.5	384.6	387.5	393.0	396.4	397.4
30°	552.6	529.8	474.3	424.2	391.0	372.7	370.2	371.2	374.6	384.1	384.6
32.5°	585.8	550.6	488.6	426.7	383.6	365.2	361.8	360.8	361.8	366.7	366.7
35°	608.6	573.9	503.0	431.1	378.1	359.3	355.8	354.3	353.3	348.4	346.9
37.5°	638.3	599.6	516.9	435.1	375.6	356.8	351.8	352.8	347.9	334.0	330.0
40°	671.0	622.9	530.7	439.1	376.6	357.3	352.8	352.3	343.9	324.6	320.6
42.5°	686.8	642.7	545.1	444.5	380.6	358.8	354.8	353.3	342.9	321.1	315.7
45°	702.2	657.1	555.5	449.0	384.6	360.8	355.8	354.3	342.4	318.2	314.2
47.5°	716.1	666.0	560.5	451.5	387.5	362.3	356.3	353.8	340.0	316.7	312.7
50°	722.5	671.0	560.5	451.5	388.5	363.7	355.3	351.8	336.0	314.2	310.7
52.5°	732.4	674.0	556.0	448.5	387.0	363.7	353.3	347.9	331.0	310.7	307.7
55°	747.3	679.4	550.1	444.0	383.6	360.8	349.9	342.4	324.1	305.8	303.3
57°	752.3	681.4	546.1	438.6	379.6	356.8	345.9	336.5	317.7	300.8	298.3
57.5°	751.3	680.4	544.6	437.1	378.1	355.3	344.9	335.0	316.2	299.8	297.3
60°	737.9	671.0	535.2	427.7	370.2	347.4	336.0	325.1	305.8	291.4	289.4
62.5°	716.1	649.7	518.4	415.3	359.3	336.5	324.6	312.2	292.9	280.5	279.5
65°	678.9	614.0	494.1	397.4	345.4	322.1	309.2	295.9	279.0	268.1	265.1
67.5°	617.0	566.4	459.9	372.7	324.1	304.3	290.4	276.5	261.2	251.7	249.8
70°	565.4	514.4	416.3	341.4	298.3	279.5	266.6	253.2	239.9	231.4	230.9
72.5°	500.0	451.0	361.8	302.8	265.6	247.3	237.4	225.5	215.1	207.6	207.6
75°	420.7	382.1	305.3	256.7	226.5	213.1	204.7	195.3	186.3	181.4	182.4
77.5°	334.5	305.3	249.3	207.6	185.3	176.4	168.5	163.0	157.6	153.1	153.6
80°	246.8	225.0	183.4	152.6	141.7	133.8	132.3	128.8	125.9	124.4	121.9
82.5°	169.0	149.7	121.9	104.6	96.6	94.2	94.7	94.7	95.1	95.1	94.2
85°	87.7	80.3	61.9	56.0	55.0	57.5	60.5	62.4	61.9	61.9	60.5
87.5°	25.3	22.8	19.8	17.8	18.8	20.3	17.8	17.3	16.8	16.4	16.4
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)